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Potable Water Supply Assessment

Commercial Site Development 210 and 220 Maple Creek Court Ottawa, Ontario



Prepared For Wall Sound (2434894 Ontario Inc.) ^{c/o} BBS Construction (Ontario) Ltd.

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1.0 INTRODUCTION

Paterson Group (Paterson) was retained by **BBS Construction (Ontario) Ltd.** on behalf of the site owner, Wall Sound (2434894 Ontario Inc.) to conduct a potable water supply assessment for a commercial property at located at 210 and 220 Maple Creek Court, Ottawa (Carp), Ontario. The site location is indicated on Figure 1 below.

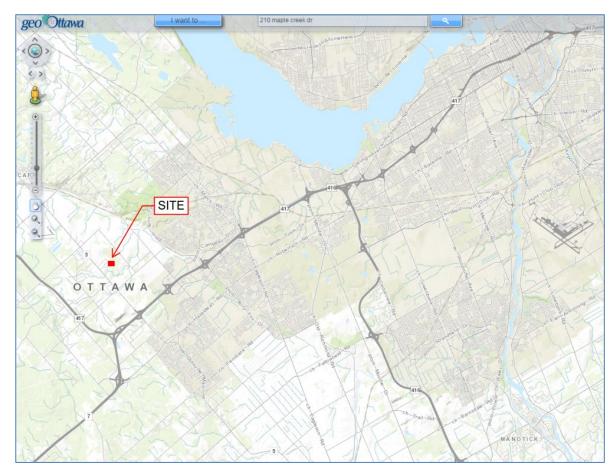


Figure 1 - Site Location

Ref: http://maps.ottawa.ca/geoottawa/

This study was conducted in general accordance with Ontario Ministry of the Environment and Climate Change (MOECC) guidance document Procedure D-5-5: Technical Guideline for Private Wells: Water Supply Assessment (MOEE, 1996).

The scope of the assessment is limited to a determination of the potential yield and raw water quality of the bedrock water supply aquifer intercepted by an new test well (TW1) that

was drilled at the site, as it relates to the future servicing potential for the proposed commercial development.

The investigation involved the following major components:

- Review of available information regarding the subject site, the proposed development, and surrounding lands.
- Hydrogeological analysis including a pumping test, groundwater sampling, geological information review, aquifer analysis and water quantity assessment.

2.0 SITE DESCRIPTION

The combined lot at 210 and 220 Maple Creek Court is approximately 3.47 hectares (Ha). See Figure 2 for site layout and identification of surrounding properties.

Figure 2 – Site Layout and Surrounding Properties



Ref: Google Earth Pro 2017

Topography at the site is relatively flat, and onsite drainage is by infiltration with minimal amounts of surface flow. Surface drainage flows to the southwest, towards a small unnamed creek. The onsite topographic elevation is approximately 114 to 115 m asl.

The following legal description of the subject lots was obtained from the City of Ottawa's interactive GIS mapping system, GeoOttawa (<u>http://maps.ottawa.ca/geoottawa/</u>):

- 210 Maple Creek Court
 - PIN 045370626 Concession 2 North Part of Lot 7 Registered Plan 4R-17169; Part 5
- 220 Maple Creek Court
 - PIN 045370625 Concession 2 North Part of Lot 7 Registered Plan 4R-17169; Part 4

2.1 **Proposed Commercial Development**

The proposed commercial development at the site consists of four large warehouse buildings with associated laneways, parking areas and landscaping. (see Drawing No. PH3158-2 in Appendix 4 – Proposed Site Development Plan).

The potable water supply for the proposed development will consist of two privately owned drilled wells (see note at the end of Section 5.2 for further details). Wastewater will be treated by an onsite Class 4 sewage system.

2.2 Surrounding Land Uses

Surrounding land uses are described below:

North

- Waste transfer station (NCM Services)
- Undeveloped land (forest)
- Developed commercial lots

East

• Undeveloped land (forest) with agricultural (crop land) beyond

West

- Maple Creek Court right-of-way
- Developed commercial lots (trucking/logistics)

South

- Commercial lots (storage and layout of equipment)
- Unused (forest)

2.3 Potential Sources of Contamination

Onsite

The lots at 210 and 220 Maple Creek Court are vacant and undeveloped. No potential environmental concerns were identified on the subject property,

Offsite

The following potential offsite sources of contamination were identified:

- Waste transfer station at 200 Maple Creek Court (vacuum trucks)
- Maple Creek Court (potential spills, road salt use).

The waste transfer station is relatively new and it is unlikely that there has been any significant impacts to offsite properties.

As part of a geotechnical investigation by Paterson (Paterson, 2016a), an overburden groundwater sample was collected from a monitoring well that was installed in one of the boreholes (BH6 which is located near the northern property line, in proximity to the waste transfer station). The sample was submitted for laboratory testing of petroleum hydrocarbon related parameters. All results were non-detectible and therefore well below the applicable MOECC site condition standards (please refer to Paterson Memorandum PG3905-MEMO.01, dated December 20, 2016 – Paterson, 2016b).

Road salt impacts are expected to be localized and confined to groundwater in the overburden unit. Potential spills must be reported and cleaned up according to MOECC requirements.

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3.0 METHOD OF STUDY

3.1 Water Well Record Search

A search of the MOECC water well records database was conducted for the site and surrounding properties. Key information from water well records in the vicinity of the site is summarized below in Table 1, below. MOECC water well records are included in Appendix 1, and the locations are indicated on Figure 3.

Figure 3 – MOECC Water Well Records



Ref: Google Earth Pro 2017 and https://www.ontario.ca/environment-and-energy/map-well-records

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Table 1 - Well Records Summary

Well	×.		Casing	-			Total	Recommended		
Record ID	Year Drilled	Depth to Bedrock (m)	Depth to Depth to Water Bearing Depth				Depth	Pumping Rate (L/min)		
1503062	1967	19.81	19.81	28.3	[28.96	46		
1503120	1966	not intercepted	7.92				7.92	23	overburden w ell	
1511534	1971	11.89	12.50				12.50	not provided	very low yield	
1514322	1974	not intercepted	9.45	9.5			9.75	23		
1514446	1974	21.03	21.64	25.6			25.91	23		
1517694	1981	not intercepted	6.71	7.6			7.62	46		
1519848	1984	50.29	50.60	54.3			56.69	46	bedrock described as granite	
1519849	1985	3.35	6.71	47.2			50.29	46	5	
1521487	1987	1.83	6.40	10.9	14.3		15.24	136		
1522190	1987	5.79	6.71	9.7	16.5		18.29	23		
1524249	1989	4.87	6.71	8.5	26.5		45.72	18		
1525420	1991	8.53	9.14	88.1			90.83	9		
1526582	1992	4.87	6.40	14.9	74.1		76.20	23		
1527789	1992	18.90	20.73	22.5	27.1		30.48	46		
1530054	1998	4.57	6.86		o 28.9		30.48	23		
1531859	2001	8.69	10.36	83.8	1		85.04	14		
1532012	2001	6.10	7.92	27.40	41.1		46.02	46		
1532037	2001	14.33	15.24	33.2			37.49	23		
1532109	2001	5.79	7.62	15.2	76.2		79.25	36		
1532400	2001	4.11	6.86	48.5			51.82	23		
1532401	2001	7.16	7.62	7.6	13.7		15.24	23		
1533699	2003	3.96	6.40		0 12.2		14.63	23		
1533703	2003	7.62	10.06	45.1			60.96	18		
1534685	2003	8.38	9.29	16.7	80.8		85.03	23		
1534700	2004	5.48	6.85	49.4	00.0		52.73	23		
1534968	2004	4.87	6.40	42.7			45.11	36		
1535188	2004	5.18	6.70	18.9	21.6		24.38	91		
1535575	2004	7.61	9.44	11.6	81.1		83.20	46		
1536096	2005	1.22	7.31	43.9	01.1		45.72	91		
1536327	2005	5.49	7.01	7.6	16.8		18.29	91		
1536645	2006	4.88	7.01	9.1	12.5		15.24	91		
1536723	2006	6.40	12.34	70.7	12.5		73.15	91		
7049235	2000	8.84	10.67	69.2			73.15	45		
7141759	2007	6.10	15.85	45.1	47.2		48.77	68		
7141771	2010	9.75	16.46	90.5	94.8		97.54	27		
7146322	2010	7.32	9.07	84.8	54.0		87.54	23		
7140322	2010	6.10	9.07 7.92	04.0 11.6	24.9	26.8	30.78	23 91		
7150117	2010	4.42	7.92	41.2	24.9 81.7	20.0	85.34	36		
7164962	2010	4.42	6.41	94.0	01.7		97.60	45		
7166847	2011	4.56 7.31					106.06	45 27		
7166847	2011	16.16	10.36	101.4	24.1			45		
			17.38	20.7	24.1		25.31			
7182536	2012	6.10	7.32	8.2			8.23	45		
7188067	2012	6.10	7.92	9.1			14.63	27		
7188086	2012	4.27	6.71	16.8	L .		18.29	not provided		
7214932	2013	7.04	0.44		mental mor	nitoring w e	1	45		
7233576	2014	7.61	9.44	57.9	66.4		68.57	45		
7247944	2015	3.96	13.40	15.2	47.2		64.31	14		
7247945	2015	4.87	13.41	38.1			64.31	14		

3.2 Test Well

A new drilled well (designated TW1) was installed at the site on January 16, 2017 by Air Rock Drilling Co. Ltd. (Air Rock) of Richmond, Ontario (Well Contractor License No.1119). The new well was drilled to a total depth of 42.67 m. Steel casing was installed to a depth of 8.53 m. The drilling, installation, and construction procedures were observed by Paterson to be in compliance with the requirements of Ontario Regulation 903 (Wells). See Table 2 (below) for details of the well construction.

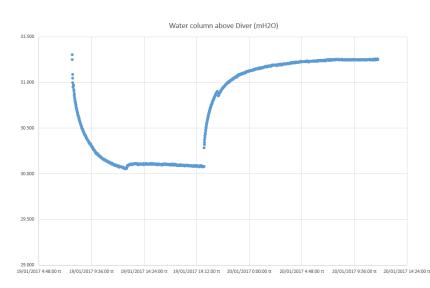
An observation well was identified and monitored during the pumping test (see below). The observation well is located at 200 Maple Creek Court, near the northern property boundary. This well appears to correspond to MOECC water well record # 1531859.

TEST WELLS SUMMARY								
Test Well ID	Year Drilled	Depth to Bedrock (m)	Casing Depth (m)	Depth to Water Bearing Fractures (m)	Total Depth (m)	Recommended Pumping Rate (L/min)		
TW1	2017	6.71	8.53	34.1 and 39.6	42.67	91		
OBS (200 Maple Creek Court)	2001	8.69	10.36	83.8	85.04	14		

Table 2 - Test Wells Summary

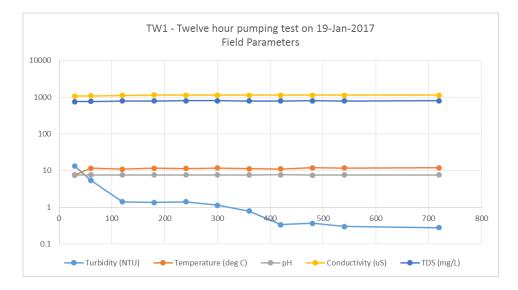
3.3 Twelve Hour Pumping Test

Paterson conducted a pumping test at TW1 on January 19, 2017. The well was pumped at approx. 68 L/min for 12 hours, and was allowed to recover.



During the test the pumping rate was monitored at regular intervals to ensure the rate of discharge remained constant (i.e. < 5% variation). Drawdown observations during pumping and recovery were recorded using manual measurements taken with an electronic water level tape. An electronic datalogger was also installed in the pumping well to record changes in water level throughout the test.

Turbidity measurements were taken using a Hanna[™] HI93414 Fast Tracker portable meter at the well head at regular intervals during the pumping test. Free chlorine residual measurements were taken using a Hach[™] Pocket Colorimeter II handheld unit immediately prior to the collection of each groundwater sample. Field measurements of pH, temperature, conductivity and TDS were carried out during the test using an Extech[™] ExStik II portable multi-meter. Field parameter results for the pumping test are provided below.



3.4 Offsite Well Owner Interviews

The neighbouring well owners at 200 and 205 Maple Creek Court were interviewed about their well and septic systems. A standard form was used to conduct each brief interview. The form includes standard questions about the well location, water quality, water quantity and potential environmental concerns. No water supply related concerns were identified. Well owner interview log sheets are included in Appendix 3.

3.5 Groundwater Sampling

Groundwater samples were collected at TW1 during the pumping test. Samples were collected at 6 hours and 12 hours after the start of pumping. Prior to collection of the groundwater samples, the free chlorine residual was verified to be non-detectable.

All groundwater samples were submitted for comprehensive testing of bacteriological, chemical and physical water quality parameters consistent with the standard 'Subdivision Supply' suite of parameters.

All samples were collected unfiltered and unchlorinated and were placed directly into clean bottles supplied by the analytical laboratory. Samples were placed immediately into a cooler with ice and were transported directly to the Eurofins laboratory in Ottawa. All samples were received by the laboratory within 24 hours of collection.

Eurofins is fully accredited by the Canadian Association for Laboratory Accreditation (CALA) having received a Certificate of Laboratory Proficiency in 1991 (CALA Registration Number 2602). Eurofins has ISO 17025 accreditation (through CALA) and is fully accredited for Ontario Safe Drinking Water Act (OSDWA) testing (License No 2318).

Offsite Well Sampling

No offsite well samples were collected. The well at 200 Maple Creek Court (i.e. the well that was used as an observation well) does not currently have a pump installed, and is not presently in use.

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4.0 GEOLOGY

4.1 Overburden Geology

Surficial geology mapping information from the Ontario Geological Survey (OGS) was obtained from the OGS Earth website at: <u>http://www.mndm.gov.on.ca/en/mines-and-minerals/applications/ogsearth</u>, and is included on Figure 4 below.



Figure 4 - Overburden Geology

Ref: Google Earth Pro 2016, and http://www.mndm.gov.on.ca/en/mines-and-minerals/applications/ogsearth

The mapping data from OGS shows that the site has coarse textured glaciomarine sediments and till (diamicton) at surface. The glaciomarine sediments are described as sand, gravel, minor silt and clay, in foreshore and basinal depositional environments. The till is described as stone poor, sandy silt to silty sand, on Palaeozoic terrain.

The thickness of the overburden unit, based on available water well record information from wells located in the vicinity of the subject site, varies significantly. Water well record data indicates that the overburden varies in depth from approximately 1.2 m to 21.0 m.

A geotechnical investigation was conducted at the site by Paterson in November 2016 (Paterson, 2016a). A total of six (6) boreholes were drilled at locations across the site (refer to Drawing No. PH3158-2– Proposed Site Development Plan in Appendix 4 for borehole locations). The general stratigraphy that was encountered in the boreholes is as follows:

- Topsoil
- Till (diamicton)

Soil thicknesses based on the drilling was interpreted to be between 5 and 5.3 m. Please refer to the geotechnical report by Paterson (Paterson, 2016a) for further details.

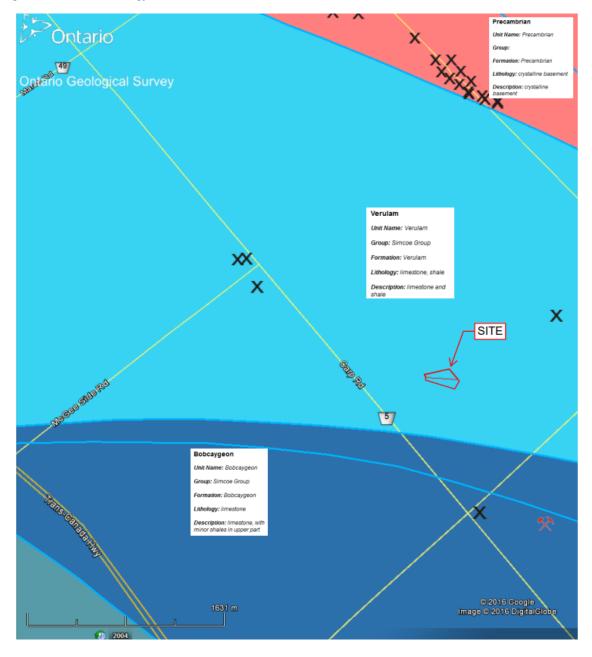
4.2 Bedrock Geology

Geological mapping information from the OGS Earth website (OGS, 2016) shows that the site is located in an area where the **Verulam Formation** is the uppermost bedrock unit. The lithology is described as limestone and shale. The Verulam formation is a recognized water bearing aquifer unit in the Ottawa region which typically has satisfactory water quality and quantity. Figure 5 (below) shows the OGS Earth mapping information in the vicinity of the site.



Kingston

Figure 5 - Bedrock Geology



Ref: Google Earth Pro 2016, and http://www.mndm.gov.on.ca/en/mines-and-minerals/applications/ogsearth

4.3 Hydrogeology

A limited investigation of the overburden aquifer was conducted by Paterson as part of the geotechnical investigation (Paterson, 2016a). Five of the six boreholes were instrumented

with standpipe style piezometers. One borehole was instrumented with a 51mm ID schedule 40 PVC monitoring well, to allow for sampling). A shallow unconfined aquifer exists in the overburden layer. Groundwater was encountered at depths from 0.9 to 2.6 m below ground surface (see Table 3, below). The data does not clearly indicate the direction of shallow groundwater flow, but it probably flows towards the southwest, based on the location of the nearby creek.

The 'Carp Road Corridor Community Design Plan (City of Ottawa, 2004) indicates the subject site is located on an area of high to moderate recharge.

Test Hole	Ground	Ground		
Location	Surface Elevation (m)	Depth (m)	Elevation (m)	Date
BH 1	113.85	1.11	112.74	November 24, 2016
BH 2	115.54	1.88	113.66	November 24, 2016
BH 3	113.96	0.92	113.04	November 24, 2016
BH 4	114.93	2.64	112.29	November 24, 2016
BH 5	114.27	1.07	113.20	November 24, 2016
* BH 6	114.96	1.25	113.71	November 24, 2016

Table 3 - Overburden Groundwater Elevations

Ref: Paterson, 2016a

The bedrock aquifer consists of water bearing fracture zones (i.e. horizontal bedding plane fracture zones) that occur between relatively unfractured layers of massive bedrock. The upper bedrock layer tends to form a confining layer. The interpreted direction of groundwater flow in bedrock at the site is probably towards the north, based on the location of the site relative to the Ottawa River (this interpretation is consistent with the findings of the Carp Road Corridor Groundwater Study, that was conducted by Dillon Consulting in 2004 (Dillon, 2004).

5.0 AQUIFER ANALYSIS

5.1 Aquifer Characteristics

The pumping test data was analyzed using Aquifer Test Pro[™] (V2016) software. Drawdown data was measured using an electronic water level tape. An electronic datalogger unit was also used to monitor drawdown in the test well.

The drawdown data was analyzed using the Theis (Theis, 1935), and the Cooper & Jacob methods of analysis (Cooper & Jacob, 1946). Aquifer transmissivity is estimated to be approximately 551 m²/day.

Table 4 -	Summary	of Aquifer	Characteristics
-----------	---------	------------	-----------------

Parameter	
Transmissivity Calculated Using	TW1
Transmissivity (m²/day)	551
Storativity Calculated Using	TW1 and OBS
Storativity	1.0E-07
Pumping test	19-Jan-17
Average Test Pumping Rate (L/min)	68
Average Test Pumping Rate (m³/day)	98
Available Draw dow n (m)	40.0
Draw dow n at 100 mins (m)	0.93
Maximum Test Draw dow n (m)	1.17
Max test draw dow n as % of available draw dow n	3%
Draw dow n at 20 years (extrapolated)	2.70
Specific Capacity (L/min/m)	58
Q20 safe w ell yield (m ³ /day) _{Farvolden}	10535
Q20 safe w ell yield (m ³ /day) Maarthius & van der Kamp	1015
Q20 safe w ell yield (L/min) Maarthius & van der Kamp	705
Q20 safe w ell yield (IGPM) Maarthius & van der Kamp	155
Farvolden, 1959	Maathius & van der Kamp, 2006

5.2 Groundwater Quantity

The pumping test results show that test well TW1 has a high yield. Drawdown at a pumping rate of 68 L/min for 12 hours was 1.17 m. 95% recovery was achieved approximately 70 minutes after the end of pumping.

The total volume of water pumped during the 12 hour pumping event was 48,960 L.

The water demand for the proposed commercial development has been estimated based on the total daily design sanitary sewage flow (TDDSSF) calculated in accordance with Part 8 of the Ontario Building Code (OBC). Based on the proposed occupancy of the office and warehouse, the TDDSSF, calculated in accordance with Table 8.2.2.3.B of the OBC, is as follows:

Building			Floor Are	a (m²)	Estimated	d Daily Sewage	e Flow (L)				
No.	Unit No.	Office	Ware	Warehouse		Office	Warehouse	Total			
NO.		Space	Space	L. Docks	Total GFA	Office	warenouse	TOLAI			
1	1	92	827	3	929	742	450	1192			
I	2	92	827	5	929	742	750	1492			
Total	2	184	1654	8	1858	1484	1200	2684			
						PHASE '	1 - TDDSSF	2700			
2	1	92	827	3	929	742	450	1192			
2	2	92	827	3	929	742	450	1192			
Total	2	184	1654	6	1858	1484	900	2384			
						PHASE 2	2 - TDDSSF	2400			
3	1	92	827	3	929	742	450	1192			
3	2	92	827	3	929	742	450	1192			
Total	2	184	1654	6	1858	1484	900	2384			
						PHASE 3	3 - TDDSSF	2400			
4	1	92	827	3	929	742	450	1192			
4	2	92	827	3	929	742	450	1192			
Total	2	184	1654	6	1858	1484	900	2384			
			PHASE 4 - TDDSSF 2400								

Table 5 – Sewage Flow Summary

The estimated total daily design sanitary sewage flow (TDDSSF) for the completed development will be approx. 9,900 L/day.

Water use will mostly occur within an 8 hour period each day (i.e. during normal working hours). This equates to an average water demand of approximately 6.9 L/min, which is approximately 10% of the pumping rate that was used during the 12 hour test.

The new well at 220 Maple Creek Court will provide a sufficient quantity of water for the proposed commercial use. In Paterson's professional opinion the probable well yield determined on the basis of this investigation is representative of the yield that can be expected in the long term.

PLEASE NOTE: The proposed development will be serviced by two drilled wells. TW1 will service the Phase 1 and Phase 2 buildings, and a new drilled well will service Phases 3 and 4. The proposed new well will be configured/constructed in a similar way to TW1. The locations of the two wells are indicated on Drawing No. PH3158-2– Proposed Site Development Plan, in Appendix 4.

5.3 Groundwater Quality

Water quality analysis data from TW1 is summarized in Table 4 (below). Laboratory certificates of analysis are included in Appendix 2.

The analytical results show that water quality at the subject site is acceptable and that there are no exceedances of the applicable health related parameter limits of the Ontario Drinking Water Standards (ODWS).

GROUNDWATER GEOCHEMISTRY - TW1									
PARAMETER	UNITS	19-Jan-17		ODWS LIMIT					
HEALTH RELATED LIMITS		19-Ja	ari- 17						
Microbiological									
÷	1/100		<u> </u>	0 ^{MAC}					
Escherichia Coli	ct/100 mL	0	0	0					
Heterotrophic Plate Count	ct/100 mL	0	1	0 ^{MAC}					
Total Coliforms	ct/100 mL	0	0	0					
Chemical									
Fluoride	mg/L	0.24	0.28	1.5 ^{MAC}					
N-NH3 (Ammonia)	mg/L	0.1	0.12	-					
N-NO2 (Nitrite)	mg/L	<0.10	<0.10	1 ^{MAC}					
N-NO3 (Nitrate)	mg/L	<0.10	<0.10	10 ^{MAC}					
Total Kjeldahl Nitrogen	mg/L	0.1	0.2	-					
Turbidity (Lab)	NTU	2.4	2.1	5.0 ^{AO}					
AESTHETIC and OPERATIC	DNAL RELATE	ED LIMITS							
Hardness as CaCO3	mg/L	431	428	100 ^{0G}					
Alkalinity (as CaCO3)	mg/L	250	255	500 ^{0G}					
TDS (COND - CALC)	mg/L	734	728	500 ^{AO}					
Calcium	mg/L	118	117	-					
Chloride	mg/L	194	190	250 ^{AO}					
Colour	TCU	7	8	5 ^{AO}					
Conductivity	uS/cm	1130	1120	-					
Dissolved Organic Carbon	mg/L	2.9	2.6	5 ^{AO}					
Hydrogen Sulphide	mg/L	0.05	0.06	0.05 ^{AO}					
pH	-	7.77	7.81	6.5-8.5 ^{AO}					
Phenols	mg/L	<0.001	<0.001	-					
Sulphate	mg/L	46	45	500 ^{AO}					
Tannin & Lignin	mg/L	0.1	0.2	-					
Magnesium	mg/L	33	33	-					
Potassium	mg/L	5	5	-					
Sodium	mg/L	64	60	200 ^{AO}					
Iron	mg/L	0.40	0.38	0.3 ^{AO}					
Manganese	mg/L	0.04	0.04	0.05 ^{AO}					
NOTE: Values exceeding the OD	Ť								

With respect to aesthetic objectives and operational guidelines, the analytical results indicate the following exceedances:

- Hardness
- TDS
- Colour
- Hydrogen sulphide
- Iron

Hardness

At the measured concentrations, the water is considered to be moderately hard, which is typical of wells drilled throughout eastern Ontario. Hardness is a measure of the dissolved calcium and magnesium in water and is expressed as the equivalent quantity of calcium carbonate. Hardness can lead to the formation of scale deposits and can form excessive scum (MOE, 2003).

TDS

Total dissolved solids (TDS) refers to the concentration of inorganic substances dissolved in water. The main constituents are typically chloride, sulphates, calcium, magnesium and bicarbonates. Water with a TDS concentration above 500 mg/L of TDS may not palatable. Procedure D-5-5 does not provide a 'treatability limit' for TDS, but it does require written rationale that corrosion, encrustation, or taste problems will not occur.

The Langelier Saturation Index (Langelier, 1936) is used to predict the calcium carbonate stability of water. It indicates whether the water will precipitate, dissolve, or be in equilibrium with calcium carbonate. The results of the Langlier calculation (LSI = 0.6) indicate the water is super saturated and tends to precipitate a scale layer of calcium carbonate (scale forming but non-corrosive). See Appendix 3 for calculation details.

The Ryznar Stability Index (Ryznar, 1944) uses a database of scale thickness measurements in municipal water systems to predict the effect of water chemistry. The RSI was developed from empirical observations of corrosion rates and film formation in steel water mains. The results of the RSI calculation (RSI = 6.6) indicate the water is not scale forming and is not corrosive. See Appendix 3 for calculation details.

Colour

Colour may occur in drinking water for any one or more of several reasons. It may be due to organic substances from the decay of vegetation; or the presence of metals such as iron, manganese and copper, which are abundant in nature. The provincial aesthetic objective for colour in drinking water is 5 TCU (True Colour Units). The federal (Health Canada) guideline aesthetic objective limit for colour is 15 TCU (Guidelines for Canadian Drinking Water Quality, Health Canada 1979). <u>http://healthycanadians.gc.ca/publications/healthy-living-vie-saine/water-colour-couleur-eau/index-eng.php</u>

Hydrogen Sulphide

The aesthetic objective for sulfide in drinking water is based on odour. Although hydrogen sulfide is toxic, poisoning from ingestion of drinking water is very unlikely because of the unpleasant taste and odour. Sulfide in combination with iron produces black staining on pipes and fixtures. Low concentrations of hydrogen sulphide can be effectively removed from drinking water by aeration.

Iron

Concentrations of iron above 0.3 mg/L can cause staining of fixtures and a metallic taste at higher concentrations. Precipitation of iron can promote the growth of iron bacteria in pipes. The concentration of iron in the groundwater at TW1 is considered to be reasonably treatable in accordance with Table 3 of Procedure D-5-5.

6.0 DEVELOPMENT CONSIDERATIONS

6.1 Well Water Treatment

The water within the bedrock aquifer displays elevated hardness, TDS, colour, hydrogen sulphide and iron. A standard commercial grade softener water is suitable for the reduction of hardness and iron to an acceptable level.

Conventional water softeners introduce sodium into the water supply, so it may be appropriate to bypass the water softener with a separate tap for drinking water.

Hydrogen sulphide can be reduced by aeration or with an iron/sulphur filter.

TDS can be reduced in drinking water, if desired, by using reverse osmosis or by distillation.

7.0 CONCLUSIONS

The following statements and conclusions are based on the investigation and analysis contained within this report:

- The existing onsite well (TW1) is technically suitable and appropriate for the purpose of characterizing the water supply aquifer for the proposed commercial site development.
- The bedrock aquifer at the subject site will provide a sufficient quantity of water for the intended commercial use (warehouses). In Paterson's professional opinion the probable well yield determined on the basis of this investigation is representative of the yield that can be expected in the future. The well yield is high, and long term safe yield calculations suggest that pumping at the peak demand rate will be sustainable.
- The bedrock aquifer at the subject site will provide sufficient water quality for the intended commercial use (warehouses). Elevated hardness and iron can be treated with a commercial grade water softener. TDS can be reduced by using reverse osmosis or by distillation. Hydrogen sulphide can be treated by aeration or with an iron/sulphur filter.
- Historical land use of the subject property is not considered to be a concern as a potential source of contamination to the underlying bedrock aquifer.
- The only potential offsite sources of groundwater contamination that were identified in the vicinity of the site are potential spills and road salt use along Maple Creek Court, and the neighbouring waste transfer station. Potential impacts to the bedrock aquifer are considered to be unlikely due to the confining nature of the upper bedrock.
- The subject site is considered to be suitable for commercial development based on the available well water yield and quality as determined by this investigation.



8.0 **RECOMMENDATIONS**

- The existing drilled well (TW1) at 220 Maple Creek Court is considered to be a suitable water supply for the proposed development. The additional new drilled well at the site should be constructed and configured in a similar manner to TW1.
- Water softener treatment is likely to cause an elevated concentration of sodium (> 20 mg/L) in the treated water. The local Medical Officer of Health should be notified in order to alert persons with medical conditions requiring a low sodium diet (NOTE: as an alternative, potassium chloride can be used as the ion exchange medium).

In summary, it is Paterson's professional opinion that this site is suitable for the commercial development. The hydrogeological recommendations contained within this report, if followed, will ensure that the development takes place in an effective manner, with a minimal impact on the natural environment.

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Long

Russell L. Chown, P.Geo. Senior Hydrogeologist



9.0 STATEMENT OF LIMITATIONS

This Potable Water Supply Assessment report has been prepared in general accordance with the agreed scope-of-work and the requirements of MOECC Procedure D-5-5: Technical Guideline for Private Wells: Water Supply Assessment (August 1996).

The conclusions presented herein are based on information gathered from a limited historical review along with a field inspection and testing program. The findings of this investigation are based on a review of readily available geological, historical, and regulatory information and a cursory review made at the time of the field assessment. The historical research relies on information supplied by provincial agencies and was limited within the scope-of-work, time, and budget of the project herein.

This report was prepared for the sole use of **BBS Construction (Ontario) Ltd**. Permission from the above noted party and our firm will be required to release this report to any other party.



10.0 REFERENCES

Cooper, H.H. and C.E. Jacob, 1946. A generalized graphical method for evaluating formation constants and summarizing well field history, Am. Geophys. Union Trans., vol. 27, pp. 526-534.

Dillon Consulting Limited, 2004. Carp Road Corridor Groundwater Study. November 2004.

Farvolden, 1959. Groundwater supply in Alberta. Alberta Research Council, unpublished report, 12 pp (cited in Maathius & van der Kamp, 2006.

Health Canada, 2017. Guidelines for Canadian Drinking Water Quality, Health Canada 1979. <u>http://healthycanadians.gc.ca/publications/healthy-living-vie-saine/water-colour-couleur-eau/index-eng.php</u>

Maathuis and van der Kamp, 2006. The Q20 Concept: Sustainable Well Yield and Sustainable Aquifer Yield. Saskatchewan Research Council Publication No. 10417-4E06. July 2006.

Ontario Geological Survey (OGS) Earth, 2015. Ontario Ministry of Northern Development, Mines and Forestry, - Ontario Geological Survey, OGS Earth website: (<u>http://www.mndm.gov.on.ca/en/mines-and-minerals/applications/ogsearth</u>).

Ontario Ministry of Environment and Climate Change (MOECC), 2015. Water Supply Wells Requirements and Best Management Practices, (Revised April 2015) website at: https://dr6j45jk9xcmk.cloudfront.net/documents/4410/a-wwbmp-title-master-table-of-contentschapter-1.pdf

Ontario Ministry of Environment (MOE), 2003. Ontario Drinking Water Standards, Objectives and Guidelines (ODWS) (June 2003).

Ontario Ministry of Environment and Energy (MOEE), 1996. Procedure D-5-5: Technical Guideline for Private Wells: Water Supply Assessment (August 1996).

Ontario Water Resources Act, 1990. Revised Statute of Ontario (R.S.O.), Ontario Regulation 903 (O.Reg. 903), 1990, Wells.

Paterson, 2016a. Geotechnical Investigation, Proposed Warehouse Development, 210 and 220 Maple Creek Court, Ottawa, Ontario. December 2016.

Paterson, 2016b. Memorandum. Soil and Groundwater Analytical Test Results, 210 and 220 Maple Creek Court - Ottawa, December 20, 2016.

Theis, C.V., 1935, The relation between the lowering of the piezometric surface and the rate and duration of discharge of a well using groundwater storage, Trans. Amer. Geophys. Union, Vol. 16, pp. 519-524.



Appendix 1

• MOECC Water Well Records

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TW1 (new test well at 220 Maple Creek Drive)

tawa

CERTIFICATE OF WELL COMPLIANCE

I. Ken Desaulniers_ DO HEREBY CERTIFY that I am licensed to drill	
wells in the Province of Ontario, and that I have supervised the drilling of a well on the	
property of 2434894 ONTARIO INC (WALL SOUNDINC)	
located at # 220 MAPLE CREEKCOURT, CARP	
Lot/Plan No.) in the City of Ottawa (Geographical Township of Osgoode).	
CERTIFY FURTHER that, I am aware of the well drilling requirements, the guidelines,	
recommendations and regulations of the Ministry of the Environment governing well	
installations in the Province of Ontario, and the standards specified in any subdivision	
agreement and hydrogeological report applicable to this site and City Standards.	
AND DO HEREBY CERTIFY THAT the said well has been drilled, cased, grouted	
(cement or bentonite) as applicable and constructed in strict conformity with the	
standards required.	
Signed this 16TH day of JANUARY . 2017.	
Kangenz Air Rock Drilling Co. Ltd. Well Driller/Company	
The Engineer on behalf of the landowner set out above Certifies that he/she has inspected the well and it was constructed in accordance with the specifications in O.Reg.903, this report and the Hydrogeological Report with regards to casing length and grouting requirements.	
SIGNED this <u>31st</u> day of the ARY, <u>2017</u> .	7 2
Engineer RUSSELL L. CHOWN A 1870	14

Shaping our future together Ensemble, formons notre avenir

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Ville d'Ottawa Centre de service R243, me Victoria Ottawa, ON KOA JPG

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PRACTISING MEMBER

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Client Service Centre E243 Virtaria Stroot Cottawa: ON KOA 2PO

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Ministry of the Environment 200 Maple Creek Court (OBSERVATION WELL)

The Ontario Water Resources Act WATER WELL RECORD 1531859

Print only in space Mark correct box	ces provided. with a checkmark, where app	licable.	11 1 2	1	5318	59			. .	22 23 24
County or District		Towns	ship/Borough/City/	Town/Villag	e		Con block	tract survey	/, etc. Lo	ot 25-27
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41 WATE Water found	ER RECORD 51	CASING & side	Wall	RECORD Depth	- feet	Sizes of (Slot No.)		Diameter	34-38 Leng	jth 39-40
at - feet	Kind of water di	am Material ches	thickness inches	From	To	Material	and type		Depth at top	of screen 30
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Name of Well Contr			ractor's Licence No.	Sour Bate		58 Contractor	58	59-62 Date rece MAY		63-68 80
Capital V Address	Mater Supply Ltd.	1558	2		of inspection		Inspector		<u>40</u>	
Box 490,	Stittsville, ON. 1	(25 1A6	niningla (inc							
Name of Well Tech S. Miller P. Stanto		^V 1009 T008	nician's Licence No.	AT SINIM	harks				CS	S.ES1
Signature of Techni	cian/Contractor	Submissio		NIN I						
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2 - MINISTRY OF THE ENVIRONMENT COPY

► Sep. 27. 2012 10:58AM	CAN-MECH AGENCIES LTD.	No. 5243	205 Maple
Ministry of	Well Tag No. (Place Sticker and/or Print Below)	· · ·	Creek Court
Ontario Ministry of the Environmen	* A102654	Regulation 903 Ontario	
Measurements recorded in:		7188067	of

Address of Well L	ocation (Street Num	ber/Name)	To	wnship /	·	Lot 15	Concessio	n ; ;	
County/District/M		•	Cit	ty/TownVillage	- · ·	Prov	ince	Postal (1
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		Lease Have			Pump intake set at (r	m/ft) 2	2 / 8	2	192 - 5
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6 7/2 5	STRE2	188 C	0 26	Recharge Well Dewatering Well	(I/min / GPM)		10 <u>2 4 4</u>		1111
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(nft/ft) Water found a	Gas Other, sp t Depth Kind of Wate	ecity er:	tested 2.6	98 6				15	
(Fir/ft)	Gas Other, sp	ecify				ł	12152 7 X- 20	;	
le i statistica e a	Well Contract	or and Well Tecl	niclan inform	ation Vell Contractor's Licence No.	s	10,000 0 0 0			•
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Province	ess (Street Number/N	97 < <u>64</u> - <u>(</u> 27 - ∂ [Business E-m	/\\ √ ≾ ai] Address	2. A. K. L. F. S. M. M.					
1	C KICHAI BU	ALL A				e Package Delivered	- Audit N	0.	e Onlý 😒
Bus.Telephone	No. (inc. area code) N 2715556	lame of Well Techr	iician (Last Name → くノノノ	a, First Name)		v v v v M M B	Z	115	5818
Well Technician'	イバントノム。 s Licence No. Signatu	re of Technician an	d/or Contractor D	ate Submitted	Ţ ∐ Yes	Ŷ Ŷ Ŷ Mr M Ď		· · · · · ·	* * * * * * *
	s Licence No. Signatul		<u> </u>	WYYY M M DD		<u> </u>	LD Receive	0	
0506E (2007/12)		Interio, 2007		Contractor's C	ору				

0506E	(2007/12)	@ Queen's	Printer for	Ontario,	200

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	Watan Daa		indian Act 105	land de la gradie de la composition Francisco de la composition de la compo	
koll WATH	ER W	ELL I	RECORI	D	
County on District Careletor		Tourshin	Village Town o	City Ha	x tlev
County or District <u>Carletor</u> Con. 2 Lot 2	E 7	Date com	$\frac{1}{9}$	Feb.	1961
		iress	(day	month	year)
Casing and Screen Record				mping Test	
Inside diameter of casing		Static lev	vel		
Total length of casing 9.0 •					G.P.M.
Type of screen			-	2	
Length of screen		. Duration	n of test pumping	g I h	N
Depth to top of screen		Water c	lear or cloudy at	end of test	G.P.M.
Diameter of finished hole 4"		. Recomm	ended pumping	rate	G.P.M.
	~**	with	pumping level o	f	
Weli Log			Wa	iter 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)
Pred 100m	0	151			
	······································		· · · · · · · · · · · · · · · · · · ·		
muy hard pan	<u> </u>			·	-
Gray Line Stone	20	64	104	<u> </u>	foresh
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				tion of Well	
For what purpose(s) is the water to be used?				11	w/
house	••••••	I		show distances of	
Is well on upland, in valley, or on hillside?			bad and lot line	e. Indicate horth	ho y ariow.
hillside		· · ·	A	JHTTLY -	1.25
Drilling Firm FP Spark	5		······································		* //
Address SHILLSUIL	ant		۲.۱	UN-2017	ί.
	J				
				2	
Name of Driller	Ŝo. 1	•		le la	
Name of Driller	<u>[] [] (] (] /] (</u> [] [] []	5			
Address 5Fittsville	Ont.			%	
Date Feb. 961 F. Darko (Signature of Licensed Drilling Contractor)			FOHN	1	
				CS	<u>< </u> 33

UTM 18 424140 E 9R 301732 $9R$ Ontario Water Re Elev. $4R$ 0360 WATER WE Basinty of District CARLETON Con. Lot	LL F .Township, ⁷ .Date compl	REC Village, eted	Town or Gity	HUN TOBER	Nº 3062 TEY 1967 year) ONT
			Pumpin	g Test	
Inside diameter of casing.	Static le	vel			
Total length of casing.			rate /	2	G.P.M.
Type of screen <u>mil</u>		-	20'		
Length of screen			pumping /		
Diameter of finished hole 5"					VDY.
	with nu	nn setti	pumping rate	/0	G.P.M.
Well Log				1	w ground surface
Overburden and Bedrock Record	F	om	То	Depth(s) at	Kind of water
CLOV & BOULDER		řt.	ft.	which water (s) found	(fresh, salty, sulphur)
SAND BOULDERS		30	30		
HARD PAN BOULDERS		0	65-		
LIMESTONE HIDRD CRE	<u> </u>	1	95	93.	FRESH.
For what purpose(s) is the water to be used? NEW HOME Is well on upland, in valley, or on hillside? UPLAND. Drilling or Boring Firm. BLAIR PHILLIPS DRILLING-CO. 4 Address //19 FAL AISE RD OTTAWAS ONT. Licence Number 2562 Name of Driller or Borer TMOORE Address RR#/ KARS ONT. Date 16 CTOBER 1967 (Skowfre of Ligensed Drilling or Foring Contractor) Form 7 15M-60-4138 OWRC COPY	roa	diagram d and	Location o n below show d lot line. Indic	Lots'	arrow. North S75 MI.
		4		C	55.58

$\frac{21}{16} \times \frac{16}{2422850} \times \frac{16}{242850} $	LL RECO) R D ^{' K}	WATER DOKE 1503120 M151 N ONTARIO WAT ESOURCES COMM	31120
Con. Z Lot		(day 1971) 1971)		year)
Casing and Screen Record		Pumping	; Test	
Inside diameter of casing Total length of casing Type of screen Length of screen Depth to top of screen Diameter of finished hole	Static level Test-pumping ra Pumping level Duration of test p Water clear or cle Recommended p with pump settin	te pumping pudy at end of pumping rate	9 1 MR test & & &	
Well Log	, I	·		r Record
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
	23	26	23	FRESH
For what purpose(s) is the water to be used? Is well on upland, in valley, or on hillside? Drilling or Boring Firm Address Licence Number	road and	Location m below show lot line. In 330	of Well distances of we dicate north by	ell from arrow.
Name of Driller or Borer Address Date (Signature of Licensed Drilling or Boring Contractor) Form 7 15M-60-4138 OWRC COPY			Hur	TEEY 138

UTM 182 12119180 E Lat 15 Elev. 1R 0 3 0 WATER WEL	Urces Commission	ORD	1503120 DYJIUN NG JUN 1 8 1968 ONTARIO WATER OURCES COMMISS	
Con. 4 Lot 15 D		own or City 2 (day 2 / 0 / 2	may may South	ch 1968 March
Casing and Screen Record Inside diameter of casing Total length of casing Type of screen Length of screen Depth to top of screen Diameter of finished hole	Static level Test-pumping ra Pumping level Duration of test p Water clear or cl Recommended p with pump settin	te / D /8 pumping oudy at end of pumping rate	test cloc	
Well Log Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
clay loom sandstone	2	62'	60	fresh
For what purpose(s) is the water to be used? Is well on upland, in valley or on hillside? Drilling or Boring Firm apital Hater Address // astronomy State Licence Number 285 Name of Driller or Borer. Address Date May 20 1968 Jallan Jan 20 1968 Jallan Jan Jan Jan Jan Jan Jan Jan Jan Jan J	road and	Location m below show lot line. Inc TYRD 109	of Well distances of we licate north by	Il from $arrow_{LOT/V}$ 0 LOT/V 275' 10 1
Form 7 15M-60-4138 OWRC COPY				Durb AB

The Ontario Water Resources Commission Act ATER WELL RECOR 211 = 1. PRINT ONLY IN SPACES PROVIDED 1511534 11 92 2. CHECK X CORRECT BOX WHERE APPLICABLE 23 24 TOWNSHIP, BOROUGH, BLOCK, TRACT, SUF EY. ETC LOT leton Hun DATE COMPLETED 18 мо. DAY A. 25 T T 1 1 1 1 LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS) MOST GENERAL COLOUR OTHER MATERIALS DEPTH - FEET COMMON MATERIAL GENERAL DESCRIPTION FROM то an class packed \mathcal{O} 10 sand + boulder 30 10 stones + boulders 39 30 39 31 ъl 10 14 15 21 32 43 54 55 75 WATED DECODD JERTACING & ODEN HOLE DECODD Z SIZE(S) OF OPENING 31-33 DIAMETER 34-38 LENGTH 32 1 Z (SLOT NO.) MATERIAL AND TY O O 41 51 CASING & OPEN HOLE RECORD WATER FOUND AT - FEET - FEET KIND OF WATER INS DEPTH WALL THICKNESS MATERIAL INCHES DEPTH TO TOP OF SCREEN MATERIAL AND TYPE FEE FROM то 1 🗌 FRESH 3 🗌 SULPHUR STEEL 188 414-16 0 2 🗌 SALTY 4 🗌 MINERAL GALVANIZED t 🗌 FRESH 3 🗌 CONCRETE 3 🗋 SULPHUR 05 4 OPEN HOLE 61 PLUGGING 0041 & SEALING RECORD 2 🗌 SALTY 4 🗍 MINERAL 17-18 1 🗌 STEEL DEPTH SET AT - FEET (CEMENT GROUT, LEAD PACKER, ETC.) 3 SULPHUR MATERIAL AND TYPE 2 GALVANIZED FROM то 3 10-13 14-1 3 SULPHUR 4 🗌 OPEN HOLE 24-25 1 STEEL 27-30 2 SALTY 18-2 22-25 2 GALVANIZED 3 CONCRETE 1 🗌 FRESH 3 SULPHUR 26-29 30-33 2 SALTY 4 🗍 MINERAL OPEN HOLE 4 METHOD TEST 11-14 DURATION OF PUM 10 PUMPING RATE 71 LOCATION OF WELL 15-16 HOURS 2 🗌 BAILER 🖞 РОМР WATER LEVEL END OF PUMPING IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW. STATIC 1 D PUMPING WATER LEVELS DURING TEST 2 RECOVER MINUTES 29-31 19-2 UTES 26-2 45 MINUTES 32-34 60 MINUTES 35-H1 U Z FEE FEE1 FEET FEET IF FLOWING WATER AT END TEST 4 1 🗌 CLEAR 153 2 CLOUDY FEET PUM RECOMMENDED PUMP RECOMMENDED 43-45 RECOMMENDED 46-49 FEET RATE PUMP SHALLOW DEEP 3/10 GPM 50-53 _ GPM./FT. SPECIFIC CAPACITY 1 WATER SUPPLY 5 🗌 ABANDONED, INSUFFICIENT SUPPLY **FINAL** 2 OBSERVATION WELL ABANDONED, POOR QUALITY **STATUS** 7 KUNFINISHED 3 TEST HOLE OF WELL 4 🗌 RECHARGE WELL 1 🗋 DOMESTIC 5 COMMERCIAL 2 🗌 стоск 6 D MUNICIPAL į, WATER 3 | IRRIGATION 4 | INDUSTRIAL 7 D PUBLIC SUPPLY USE 8 COOLING OR AIR CONDITIONING 9 D NOT USED 5 CABLE TOOL 6 🗌 BORING METHOD 7 DIAMOND OF 3 ROTARY (REVERSE) 8 🗌 JETTING DRILLING ROTARY (AIR) 9 🗌 DRIVING AIR PERCUSSION DRILLERS REMARKS: LICENCE NUMBER DATA CONTRACTOR 59-62 DATE RECEIVED 63-68 ONLY ONTRACTOR 1558 '558 231271DATE INSPECTO USE LICENCE NUMBER REMARKS Ρ OFFICE WI 05.00 DAY 18 MO. 10 YR.7/ OWRC COPY

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Ontario	1. PRINT ONLY IN S				5143			_ CON.	¢ N	1 / 5 D 1 1 10 3
COUNTY OR DISTRICT	n	TOWNSHIP, BOROUGH		_{GE} 3 μντι	ε γ	9 CON., E	BLOCK, TRACT, S	SURVEY, ETC.	-	LOT 25-27
			rcan St. I			taria.	1997 - T T T.	DATE CO	MPLETED	48-53
		NG	ı	RC. ELE	ATION		BASIN CODE	. 13		, IV
1514522		1 5016 9 07 0VENDONE	765	4 	382	4	26	JUL CI	8, 1977	301
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER	MATERIALS		······	GENERAL	DESCRIPTIO	N	FROM	I - FEET TO
grey	gravel	boulders			pack	ed			0	32
					<u></u>					
31 00.32	241379								<u>, ,]] ,] , </u>	
	ER RECORD	51 CASING	& OPEN HO	L L		54 SIZE (S) (SLOT N	OF OPENING	65 31-33 DIA	METER 34-38	75 80 LENGTH 39-40
WALER FOUND AT - FEET	KIND OF WATER	INSIDE DIAM. MATERIAL INCHES	WALL	DEPTH - F		<u>ш</u>	AL AND TYPE		INCHES	FEET 41-44 80
DO 31 2 🗖	FRESH 3 I SULPHUR 14 SALTY 4 MINERAL	2 GALVANIZ		0 0	0 31"	S S			OF SCREEN	FEET
2 🗌		3 □ CONCRET 4 000000000000000000000000000000000000		. 31	32 20-23	61 DEPTH SET		[LING RECO	NRD
2 🗆	FRESH 3 🗌 SULPHUR 24 SALTY 4 🗋 MINERAL	2 🗍 GALVANIZ 3 🛄 CONCRET	E			FROM 10-13	TO 14-17	MATERIAL A		ACKER. ETC.)
2 🗌	SALTY 4 MINERAL	24-25 1	26	(27-30	18-21	22-25			
30-33 1 []	FRESH 3 SULPHUR 34 80 SALTY 4 MINERAL	3 🗍 CONCRET 4 🗌 OPEN HOI	E			26-29	30-33	80	. ,, ,	
71 PUMPING TEST METHO		11-14 DURATION	15-16 00 17	-18		LO	CATION	OFWE	LL 22	16
	WATER LEVEL 25	FLS DURING	HOURS M	NS 0	IN DIA LOT LI		SHOW DISTA		L FROM ROAD #	ND
	22-24 15 MINUTES 26-28	30 MINUTES 45 MINI 29-31	32-34 35	-37 C		<	2			N>
DOD 5 FEET	15 FEET 015 FEET 38-41 PUMP INTAKE SE	TAT WATER AT	END OF TEST	42			YOX			
RECOMMENDED PUMP	PUMP	FEET 1 EXCL 43-45 RECOMMEN PUMPING		but			212			
50-53	DEEP SETTING GPM./FT. SPECI	15 FEET RATE) 0 0 5 。	PM. 3			LM 0N		4 +	
FINAL	1 DE WATER SUPPLY 2 DOBSERVATION WELL	S 🗌 ABANDONED, II S 🔲 ABANDONED, P					E		1	
STATUS OF WELL	3 🗌 TEST HOLE 4 🗌 RECHARGE WELL	7 UNFINISHED		ן אַראַ אַיַאַאַראַ אַראַ			010	.75 mile	1-	ţ
ss-s WATER ک	2 STOCK	5 COMMERCIAL 6 MUNICIPAL								
		7 D PUBLIC SUPPLY 8 COOLING OR AIR CO 9 D	ONDITIONING NOT USED	A E			00#	5		
METHOD	1 CABLE TOOL	6 🗌 BORIN								
	2 🗋 ROTARY (CONVENTIO 3 🗍 ROTARY (REVERSE) 4 📋 ROTARY (AIR))NAL) 7 🖬 DIAMO 8 🔲 JETTII 9 🗖 DRIVIN	NG							
	5 AIR PERCUSSION	·····			RS REMARKS				510-	
NAME OF WELL CO	Water Supply	Ltd.	LICENCE NUMBER	l z		58 CON1	1558	1-62 DATE RECEIV	-	63-68 80
L ADDRESS	D Stittsville				E OF INSPEC	A74	INSPECTO		\sqrt{L}	
	or BORER	/	LICENCE NUMBER		ARKS:				P	
SIGNATURE OF CON	NTRACTOR Havas	ag DAT 18		OFFICE				CSS.58	v	/1
MINISTRY	OF THE ENVIR	7					<u></u>		FORM	1 7 07-091

×	W	MINISTRY OF TH The Ontario Wo	ater Resources	s Act	151444 ORE			レント
Ontario	2. СНЕСК 🗵 СО	IN SPACES PROVIDED	11514	446	MUNICIP	C.d.	j	02
COUNTY OR DISTRICT		TOWNSHIP, BOROUGH. CITY, TOWN, VILLA	GE J LNTLEY	9 CON 2	BLOCK, TRACT, SURVI			22 23 24 LOT 25-27 007
		R. # 3 Сагр					TED 11	48-53
1317770	10 424	HING 017368	RC. ELEVATION	RC.	BASIN CODE	UL 08,	1977	301
GENERAL COLOUR	MOST		KUCK MAIERI		STRUCTIONS)	······		
grey	COMMON MATERIAL	OTHER MATERIALS		GENERA	L DESCRIPTION			то
gzey	limestone			dium			0 69	69 85
				·				
<u>31</u> 0.0.69	2141379 008							
41 WAT	ER RECORD	51 CASING & OPEN HOL		SIZE (S) SIZE (S) SLOT N	OF OPENING 3	1-33 DIAMETER	34-38 LE	75 80 NGTH 39-40
AT - FEET	KIND OF WATER	NSID DIAM. MATERIAL THICKNESS INCHES INCHES	DEPTH - FEET FROM TO		AL AND TYPE	DEP	INCHES	FEET
00 84 ² □	SALTY 4 MINERAL	610-11 1 Distrel 12 2 GALVANIZED 3 GONCRETE	0 0071."	l v				FEET
2 []	SALTY 4 MINERAL	0 6 4 EMOREN HOLE	20-23			& SEALING		
2 🗆	SALTY 4 MINERAL	2 □ GALVANIZED 3 □ CONCRETE 4 ¥ OPEN HOLE	0085	FROM 10-13			LEAD PACE	(ER, ETC.)
2 🗌	SALTY 4 MINERAL	24-25 1	27-30	18-21	22-25			
	SALTY 4 MINERAL	4 OPEN HOLE	<u>_</u>	26-29	30-33 80			
71 1 2 PUMP 2		0 15 GPM. 0 115-16 00 17-18 HOURS 00 17-18	S.,		CATION OF		2417	
STATIC LEVEL 19-21		EVELS DURING		AGRAM BELOW INE. INDIC	SHOW DISTANCES	OF WELL FROM	I ROAD AND	
JE JE FLOWING	035 FEET 035 FEE	TO 35 FEET 0 35 FEET 0 35 FEE	T I					
U IF FLOWING, GIVE RATE	GPM	FEET 1 CLEAR 2 DE CLOUDY	J D					
			'l				1	V /
FINAL	4 1 CHWATER SUPPLY	CIFIC CAPACITY 5 ABANDONED, INSUFFICIENT SUPPLY	Sibe					
STATUS OF WELL	2 OBSERVATION WELL 3 TEST HOLE 4 RECHARGE WELL	 a Bandoned, Hoor quality unfinished 				Ĺ	+	
55-5		5 COMMERCIAL 6 D MUNICIPAL	1 055				T	
	3 IRRIGATION 4 I INDUSTRIAL	7 D PUBLIC SUPPLY 8 D COOLING OR AIR CONDITIONING	HAK	,	.7 mile	,		60
59	WCCABLE TOOL	9 □ NOT USED	L VIC	Hu		ND LIN	é	_
METHOD J	2 🗌 ROTARY (CONVENTI 3 🔲 ROTARY (REVERSE)	IONAL) 7 🗌 DIAMOND 8 🗋 JETTING		•	-			
DRILLING	4 ROTARY (AIR)	9 🗋 DRIVING	DRILLERS REMARKS	S:				
Capit	NTRACTOR	Ly Ltd. LICENCE NUMBER	DATA SOURCE DATE OF INSPEC	58 CONTI	AACTOR 59-62 DAT	17 12	2 74	63-68 80
ADDRESS Box 4	90 Stittsvill	.e, Ontario	DATE OF INSPEC		INSPECTOR	2		
NAME OF DRILLER	or Borer	LICENCE NUMBER	N REMARKS:		//	also.	P	
U SUMATURE OF CON		SUBMISSION DATE	OFFICE	delish	- rust c	lon	wı	
MINISTRY	OF THE ENVIR	ONMENT COPY	4 b				FORM 7	07-091

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Ontar	Enviro	1. PRIN	ONLY IN SPA	CES PROVIDED	_		1	51769	34	150		151769 <u>6</u> 9/1		2
COUNTY	OR OTSTRICT	2. CHEC	K 🖾 CORREC	TOWNSHIP	PPLICABLE	OWN VILLA	AGE		CON	BLOCK TRACT	survey e		0	ð 8 *"
					DA.	21	γ	n KI	JA	11_0				53 P/
	1 1				-167	<u>9</u> 9	-urg	0380	Ä	26				
			LO	1/ 18	RBURDEN A	AND BE	DROC	K MATERIAL	30 S (SEE	INSTRUCTIONS)		DEPTH	· FEET
GENER	AL COLOUR	NOST COMMON MAT	ERIAL		OTHER MATE	RIALS			GENE	RAL DESCRIPTI	ON		FROM	то
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32												1-33 DIAMET	I I I I	75 40 LENGTH 39-40
41 WATE	RFOUND	KIND OF WATE	1	51 C	MATERIAL	WALL	D	EPTH - FEET		TERIAL AND TYP			INCHES	FEET 41-44 30
AT	- FEET	TRESH 3 1 SU SALTY 4 1 M	LPHUR ¹⁴	10-11 T	GALVANIZED	INCHES	FRC	11.99	SCR				OF SCREEN	FEFT
		FRESH 3 3 51 SALTY 4 7 M		06	CONCRETE OPEN HOLE	-/88		20-23	61 DEPT	PLU H SET AT - FEET	<u>11</u>	ATERIAL AND	(CE	ORD
	2 1	FRESH 3 [S	INERAL	2 [3 [] GALVANIZED] GALVANIZED] CONCRETE] OPEN HOLE				FRO Endiant	· · · · · · · · · · · · · · · · · · ·	4-17		LEAD	
	2 🗆	FRESH 3 SALTY 4 S	INERAL	24-25 1 [-	27-30			2-25 0-33 80			
	PUMPING TEST METH	FRESH 3 5 SALTY 4 8	INERAL	4 [_ CONCRETE	UMPING	<u> </u>			LOCATI		F WFI		
	1 2 PUMP 2		<u>003</u>	О _{бри}	0/ 15-1 HOL	" O ()	17-18 MINS		AGRAM B	ELOW SHOW D	ISTANCES	S OF WELL		AND
EST	STATIC LEVEL	END OF PUMPING 22-24	WATER L 15 MINUTES		2 []	RECOVERY	NUTES	LOT		INDICATE NOR				.7
1-4	FEET	75 FEET 38-41	13		WATER AT END		ر _{۴٤Ε۲} 42			1.				N.
PUMPING	RECOMMENDED PUM	GPM P TYPE	RECOMMENDE	FEI			LOUDY 46-49			g'	40m.			
	Shallow 50-53	DEEP	SETTING	// S FIE			GPM			2	Á			
	FINAL STATUS	2 🗌 CBS	ER SUPPLY ERVATION WE	LL 6 🗋 AI	BANDONED. INSU BANDONED POOF NFINISHED		UPPLY			5	2/0	mi.		
	OF WELL	3 □ TES 4 □ REC 56 1 ₩ DOM	HARGE WELL	5 🗆 сомм										
	WATER USE Ø	2 🗌 STO 3 🗍 IRR	CK GATION	6 🗌 MUNK 7 🔲 PUBLI 8 🗋 COOLI		DITIONING								
			OTHER		9 🗌 NO	OT USED								
	METHOD	3 🗆 R01	LE TOOL ARY (CONVEN ARY (REVERS ARY (AIR)		7 DIAMOND 8 JETTING 9 DRIVING	,						1.		
	DRILLING	s 🖨 AIR	PERCUSSION			LC DE AL MUM	AFP	DRILLERS REMA		8 CONTRACTOR	59-62	DATE RECEIVE	° • • •	43 -68 80
CTOR	ADDRESS		in l	Off Af	sellery	364	74	A SOURCE	1	364	SPECTOR	12	01	82
		ED OR BORER	6, 2	Vielu			τ. Ber							
CONTRA	SIGNATURE	CONTRACTOR		" an		10	81	OFFICE					~~~	Cr
L	MINISTR	(/ Y OF TH	E ENV	IRONME	NT COP		YR				<u></u>		FORM NO. 0	0506-4-77 FORM 7

Ministry			1521487	r ,
of the		The Ontario		
Ontario Environment	VVA	TER W		-CORD
1 PRINT ONLY IN SPACE	S PROVIDED	1521487	NUNICIP CON.	1 1 1
COUNTY OR DISTRICT	OX WHERE APPLICABLE	E	BLOCK. TRACT. SURVEY. ETC	22 23 74 LOT 25-27
CARLETON	HUNTLEY TOWN	SHIP (T.W.C.) We	st 1/2, Concession	m 2 8
		~ /	DATE CO	MPLETED 44-53
		RP ON TARIO	BASIN CODE	<u>24 no 6 v87</u>
		25 26 30	<u>1</u>	
	OF OVERBURDEN AND BED	ROCK MATERIALS (SEE)	NSTRUCTIONS)	
GENERAL COLOUR MOST CONMON MATERIAL	OTHER MATERIALS	GENER	AL DESCRIPTION	DEPTH - FEET
REDWAN SAND	CLAY	PAC	REIJ	
GREY CLAY	STONES		-	
GREY LIMIESTONE	- SUCIVE S	HAN CO		36
	1 HUERER (C)	<u> </u>	IZEN	6 8
COEL DEAUEL	IMESTONE	LAYEDS	HOOSE	8 12
GREY LIMIESTONE) HARP	12 41
BLACIE LIMITESTOME		SOI	EV	41 50
	······			
	·			
31				
41 WATER RECORD 51	CASING & OPEN HOLE		4 65 • OF OPENING 31-33 DIAM	75 80 ETER 34-38 LENGTH 39-40
WATER FOUND KIND OF WATER DIAN	MATERIAL THICKNESS	DEPTH - FEET	IAL AND THE	INCHES FEET
36 ¹⁰⁻¹³ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10-11 1 STEEL 12	13-16 00	AL AND HTPE	DEPTH TO TOP 41-44 30 OF SCREEN
2, 13-18 1 DIRESH 3 DSULPHUR 19	2 DGALVANIZED 3 DCONCRETE 4 DOPEN HOLE	$\mathcal{O}\left[\mathcal{L} \right] \left[\begin{bmatrix} \mathbf{L} \\ \mathbf{I} \end{bmatrix} \right]$		FEET
20.21	5 □ PLASTIC		PLUGGING & SEA	
2 G SALTY 4 G MINERALS	3 CONCRETE	1 50 FROM	TO MATERIAL AN	LEAD PACKER. ETC)
T PRESH 3 USULPHUR	5 DPLASTIC	27-30	"20 emu	A Orvia
30-33 1 FRESH 3 SULPHUR 34 80 2 SALTY 6 GAS	2 GALVANIZED 3 CONCRETE 4 OPEN HOLE	26-2	9 30-33 80 JP	R#10
PUMPING TEST METHOD 10 PUMPING RATE	1-14 DURATION OF PUMPING			
THIR CONF 2 D BAILER 100 +	GPM	LC	OCATION OF WEL	L
STATIC WATER LEVEL 23 LEVEL END OF WATER LEVELS D.	1	IN DIAGRAM BELO	W SHOW DISTANCES OF WELL CATE NORTH BY ARROW.	FROM ROAD AND
	INUTES 45 MINUTES 60 MINUTES L. (20-3) 45 MINUTES 60 MINUTES L. (20-3) 45 MINUTES 33-37			+
	FEET FEET FEET			
IF FLOWING. J0-41 PUMP INTAKE SET AT GIVE RATE GIVE RATE GPM RECOMMENDED PUMP TYPE RECOMMENDED	FEET I CLEAR 2 CLOUDY	4		
	43-45 RECOMMENDED 40-43 PUMPING A			- W
SO-S3	FEET RATE SO GPM	1		
FINAL 1 DWATER SUPPLY S	ABANDONED, INSUFFICIENT SUPPLY			
STATUS	ABANDONED POOR QUALITY UNFINISHED	I .		1/2/0
OF WELL A RECHARGE WELL 9	DEWATERING	1		SE T
WATED 2 STOCK 5	COMMERCIAL MUNICIPAL	1	*	2
	PUBLIC SUPPLY COOLING OR AIR CONDITIONING			C
0 OTHER	• 🗆 NOT USED	XWE	11	x 1
METHOD	6 DEBORING 7 DIAMOND			A R
	DETTING 5222			U
S DATE PERCUSSION	DIGGING OTHER	DRILLERS REMARKS:		1391 9
RE DE WELL CONTRACTOR	WELL CONTRACTOR'S	> source	TRACTOR 59-62 DATE RECEIVED	63-68 40
ADDRESS ADDRESS RRHY Cans	0100 5112	DATE OF INSPECTION	INSPECTOR	L 0 9 1987
	0x 437	SE		
SISRUSF	UCENCE NUMBER			
SIGNATURE OF TECHNICIAN CONTRACTOR	SUBMISSION DATE	OFFICE		
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MINISTRY OF THE ENVIRONMENT	COPY		FOR	M NO. 0506 (11/86) FORM 9

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Intario	1. PRINT ONLY IN : 2. CHECK 🛛 CORR	ECT BOX WHERE APPLICABLE	L	52213	CON BLOCK, TRACT, SUR			22 23 74 T 25-27
OUNTY OR DISTRICT	<u></u>	TOWNSHIP, BOROUGH, CITY	Y. TOWN. VILLAGE 1eton - Hun	tley	Conc	. 2		6
			ville, Ontar			DATE COMPLE	тер 11	YR 87
		LLSV 6						
21	₩ 10 12	OG OF OVERBURDEN		K MATERIAL	S (SEE INSTRUCTIONS)			
ENERAL COLOUR	MOST	OTHER MA			GENERAL DESCRIPTION		DEPTH -	FEET TO
	Gravel			La	oose Fill		0	2
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31						عيا ليلب		LL L
32 1 2 10 41 WA		51 CASING 8		ECORD	SIZE (S) OF OPENING (SLOT NO)	31-33 DIAMET	ER 34-38 L	
WATER FOUND AT - FEET	KIND OF WATER	INSIDE DIAM MATERIAL	WALL DI THICKNESS INCHES FRU	EPTH - FEET	MATERIAL AND TYPE		INCHES DEPTH TO TOP OF SCREEN	41-44
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	G GAS G GAS G FRESH 3 DSULPHUR 34 4 DMINERALS	1 🗆 STEEL 2 🗆 GALVANIZED 3 🗆 CONCRETE 4 🗠 OPEN HOLE			26-29 30-33	80		
	SALTY 6 DGAS	5 DPLASTIC	FPUMPING	 ſ	LOCATION			
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	EET 45 FEET 45 38-41 PUMP INTA	FEET 45 FEET 45	END OF TEST 42					
C FELOWING, GIVE RATE	GPM. PUMP TYPE RECOMMEN	FEET 1 CLE			-			
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50-33	54		NSUFFICIENT SUPPLY			3/1-1		
FINAL STATUS	2 OBSERVATION							
OF WELL	4 RECHARGE WE	S COMMERCIAL			V vi	6'9"		
WATER	2 DOMESTIC 2 STOCK 3 IRRIGATION	6 🗌 MUNICIPAL 7 🔲 PUBLIC SUPPLY						
USE	4 🗋 INDUSTRIAL	COOLING OR AIR CO	ONDITIONING NOT USED		.15 KM			. 1 0
	57 1 X CABLE TOOL	• 🗌 BORIN				Richardo	son S	,de Ko
METHOU OF CONSTRUC	3 🔲 ROTARY (REVE	ERSE) I DETTIN	NG		3	Richardo	25	5056
CONSTRUC				DRILLERS REMA	RKS			63-68
	LL CONTRACTOR	L.	ICENCE NUMBER		58 CONTRACTOR	FEB	-	88
ADDRESS	pital Water Sup				SPECTION	CTON	,	
	X 490: Stittsv	TTTA Alle way	360 Well technician's Licence number		I			
	MOOTE	OR 2 SUBMISSION DAT	TE , , 57	OFFICE			_ · · ·	<i>. . .</i>
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32 1 2 10 41 V	VATER RECORD	51 CASING & O	PEN HOLE RI		SIZE (SE OF OPENING	65 31-33 DIAMETER 34-30	73 9 8 LENGTH 39-40
WATER FOUND	KIND OF WATER	INSIDE DIAM MATERIAL	WALL DE THICKNESS FRO		MATERIAL AND TYPE	DEPTH TO TO OF SCREEN	
	1 FRESH 3 SULPHUR 14 2 SALTY 4 MINERALS 6 GAS	10-11 1 051584 12 10-11 1 051584 2 0 GALVANIZED	ima r	53-16 V			FEET
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PUMPING TES	2 1 SALTY 6 DGAS	5 D PLASTIC	MPING		LOCATION	DF WELL	
1711	MP 2 D BAILER 2	<u>д</u> дри <u>4 15-16</u> <u>р дри нош</u>	RS MINS	LON MICH	THE ON THOUT DISTANT		AD AND
	PUMPING	R LEVELS DURING 2	RECOVERY	LOT LINE	NOICATE NORTH BY A	RROW	- Thi
12/14	145 4	FEET FEET FE	4 CT ³⁵⁻³⁷				JAN N
		KE SET AT WATER AT END C					
RECOMMEND	GPN F ED PUMP TYPE RECOMMEN PUMP	DED 43-45 RECOMMENDED	4	WILF	BROWNIS		SMRZ
С. П SHA 10-53	ALLOW LED DEEP SETTING	75 FEET RATE	GPM	GAR.	AGE		GARAGE
FINA	34 1 CLARTER SUPPLY						
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HOLO ADDRESS	Veg Drille	ng lottel 5	222	DATE OF INSPECTION	DZZZZ	JANIU	
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	Environment	WA	TER W	ELL r	KECORD
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COUNTY OR I		TOWNSHIP, BOROUGH, CITY, TOWN, VILLAG	E C	ON BLOCK TRACT SURVEY E	15 22 23 24
OWNER (SUF	tava Carleton RNAME FIRST) 28-47	ADDRESS	intley	2	ATE COMPLETED 48-53
Gr	ZONE EASTING	P.O. Box 383 St	ittsville, Onta		лач_ 30 мо_05ч91
21			RC. ELEVATION RC 25 26 30		
		G OF OVERBURDEN AND BEDI	ROCK MATERIALS (SE	E INSTRUCTIONS)	
GENERAL C	COMMON NATERIAL	OTHER MATERIALS	GEN	ERAL DESCRIPTION	DEPTH - FEET FROM TO
	own Sandy Clay	Boulders	D	cy	0 8
Gr	-	Boulders	Pa	cked	8 28
Gr	ay Limestone		M	dium Soft	28 298
71 1 X STAT	D KIND OF WATER 13 1 FRESH 3 SULPHUR 14 2 SALTY 4 MINERALS 6 14 1 FRESH 3 SULPHUR 14 2 SALTY 4 MINERALS 6 3 1 FRESH 3 SULPHUR 19 2 SALTY 4 MINERALS 6 3 1 FRESH 3 SULPHUR 24 2 SALTY 6 GAS 6 3 1 FRESH 3 SULPHUR 24 2 SALTY 6 GAS 6 3 1 FRESH 3 SULPHUR 24 2 SALTY 6 GAS 6 3 1 FRESH 3 SULPHUR 24 2 SALTY 6 GAS 6 3 1 FRESH 3 SULPHUR 34 6 2 SALTY 6 GAS 6 <t< th=""><th>10/11 1 STEEL 12 2 GALVANIZED 3 □ CONCRETE 4 □ OPEN HOLE -188 17-18 1 □ STEEL 19 2 □ GALVANIZED 3 □ CONCRETE 19 2 □ GALVANIZED 3 □ CONCRETE 19 2 □ GALVANIZED 3 □ CONCRETE 5 □ PLASTIC 1/8 4 □ OPEN HOLE 5 □ PLASTIC 24-25 1 □ STEEL 26 3 □ CONCRETE 3 □ CONCRETE 3 □ CONCRETE 3 □ CONCRETE 3 □ CONCRETE 3 □ CONCRETE 3 □ CONCRETE 10 OPEN HOLE 5 □ PLASTIC 10 OPEN HOLE 11-14 DURATION OF PUMPING 10 15-16 17-18 11-14 DURATION OF PUMPING 10 100005 11150000000000000000000000000000000000</th><th>DEPTH - FEET FROM TO 0 30³⁻¹⁶ 20-23 30 298 27-30 IN DIAGRAM BE</th><th>DT NO I TERIAL AND TYPE PLUGGING & 4 SET AT - FEET 4 TO 10-13</th><th>WELL FROM ROAD AND</th></t<>	10/11 1 STEEL 12 2 GALVANIZED 3 □ CONCRETE 4 □ OPEN HOLE -188 17-18 1 □ STEEL 19 2 □ GALVANIZED 3 □ CONCRETE 19 2 □ GALVANIZED 3 □ CONCRETE 19 2 □ GALVANIZED 3 □ CONCRETE 5 □ PLASTIC 1/8 4 □ OPEN HOLE 5 □ PLASTIC 24-25 1 □ STEEL 26 3 □ CONCRETE 3 □ CONCRETE 3 □ CONCRETE 3 □ CONCRETE 3 □ CONCRETE 3 □ CONCRETE 3 □ CONCRETE 10 OPEN HOLE 5 □ PLASTIC 10 OPEN HOLE 11-14 DURATION OF PUMPING 10 15-16 17-18 11-14 DURATION OF PUMPING 10 100005 11150000000000000000000000000000000000	DEPTH - FEET FROM TO 0 30 ³⁻¹⁶ 20-23 30 298 27-30 IN DIAGRAM BE	DT NO I TERIAL AND TYPE PLUGGING & 4 SET AT - FEET 4 TO 10-13	WELL FROM ROAD AND
ECOMMEP BIOLESS BIO	19-21 22-24 15 MINUTES 5 FEET 200 FEET 26-28 5 FEET 200 FEET 200 FEET NG, 38-41 PUNP INTAKE SET A GPM GPM GPM NDED PUMP TYPE RECOMMENDED HALLOW DEEP SETTING	30 MINUTES 45 MINUTES 60 MINUTES 29-31 32-34 35-37 200 T 200 FRET 200 ERT 1 XCLEAR 2 43-45 PECOMINENDED 46-49 250 FRET RATE 2 250 FRET RATE 2			24 ¹
FINA STAT OF W WATI USE	US 2 OBSERVATION WELL 3 TEST HOLE 4 RECHARGE WELL 53-56 1 DOMESTIC 52 STOCK 6 53 1 Image: Construction of the state of the sta			Torio	1-17
	JCTION 3 COTARY (REVERSE) 4 COTARY (AIR) 5 AIR PERCUSSION WELL CONTRACTOR	D JETTING D DRIVING DIGGING OTHER	DRILLERS REMARKS	0.0.*5	100071
	WELL CONTRACTOR ital Water Supply Ltc APO <u>ESTITUTE</u> APO TECHNICIAN/CONTRACTOR ISTRY OF THE ENVIRONM	SUBMISSION DATE	DATA 56 SOURCE 56 DATE OF INSPECTION W REMAPKS U	I 5 5 8 JATE RE	CSS.E8

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GENERAL COLOUR MOST	LOG OF OVERBUR		OCK MATERI	ALS ISEE I	NSTRUCTIONS		DEPTH	
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41 WATER RECORD					OF OPENING 31-3			75 80
41 WATER RECORD	INSIDE MATERIAL	WALL THICKNESS	DEPTH - FEET		NO)		1-38 LEN	NGTH 39-40 FEET
10-13 I FRESH 3 SULPHUR 2 SALTY 6 MINERALS	10-11 1 STEEL 6 1/4 2 STEEL	INCHES	ROM TO		IAL AND TYPE	DEPTH TO OF SCREE	D TOP	41-44 30
A G GAS	J J/ 2 BGALVANIZI 3. CONCRETE 4 OPEN HOL 5 OPLASTIC		0 21	61	PLUGGING 8	SEALING R	ECOR	
243-23 INOTFREESTED LPHUR 24	17-18 1 🗆 STEEL 2 🗆 GALVANIZI	19 ED	20-23	DEPTH SI	ET AT - FEET		CEMENT	GROUT
25-28 1 FRESH 3 SULPHUR 29	6 3 CONCRETE 4 DOPEN HOL 5 PLASTIC 24-25	E	21 250	10-1				
2 □ SALIY 6 □ GAS 30-33 1 □ FRESH 3 □ SULPHUR 34 4 □ MINEPALS		ED	27-30	18-2 26-21				
	5 DPLASTIC							
71 1 PUMP 2 BAILER	5 GPM	IS-16 17-18 HOURS MINS			OCATION OF			
	Z LEVELS DURING Z	PUMPING RECOVERY UTES 60 MINUTES		AGRAM BELON	W SHOW DISTANCES O	F WELL FROM RC	DAD AND)
₩ 2ª	29-31	32-34 35-37			0.C.Ŧ	5	,	
GIVE RATE		END OF TEST 42						
RECOMMENDED PUMP TYPE RECOMMENDE PUMP SHALLOW DEEP SETTING	DED 43-45 RECOMMEN PUMPING	DED 46-43			65			
10-53	150 FEET RATE	5 GPM	A	ė S	siness +			
FINAL 1 WATER SUPPLY 2 DOBSERVATION W	B C ABANDONED, † ELL B ABANDONED P	NSUFFICIENT SUPPLY OOR QUALITY		BUS	120	1		
STATUS 3 D TEST HOLE OF WELL 4 D RECHARGE WELL	7 🗌 UNFINISHED			1				
SS-S6 1 D DOMESTIC 2 STOCK WATER	S COMMERCIAL S C MUNICIPAL			1	1	$i \setminus$		
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57	• 🖸 BORIN			l	1 4'	1		
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		IG NG OTHER	DRILLERS NEMARI	is h	ot #57	· (603	325
NAME OF WELL CONTRACTOR	L1	ELL CONTRACTOR'S Cence number		S& CON	55 8 ^{° ATE}		1000	63-68 80
C Acapital Mater Supply		1558	DATE OF INSPEC	TION	NSPECTOR		992_	
E Box 490 Stittsville,		ELL TECHNICIAN'S					<u></u>	
SIGNATURE OF TECHNICIAN/CONTRACTOR	SUBMISSION DATE		OFFICE					
MINISTRY OF THE ENVIRON	DAY 16	10 YHA	<u> </u>				<u>is.</u> 6	

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Enviror Ontario	1. PRINT ONLY IN S		1	1527		NUNICIP	1527789
COUNTY OR DISTRICT	2. CHECK 🗵 CORRE	TOWNSHIE BOROUGH CIT	LJ	/1/		BLOCK, TRACT, SURVEY	DATE COMPLETED DAY 29 MO 5 YR 2
21				RC. ELEVATION	ec.	BASIN CODE	
1 2 T	LC	G OF OVERBURDE				AL DESCRIPTION	DEPTH - FEET
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER M				ACKED.	FROM TO
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	RAUEL.	Boulder		SAND	1	ACKED.	24' 55 55' 60'
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GREU A	ARDPAN IMESTONE	QUARTZ	_			ARD.	62' 100'
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31 1 32 1							
1 2 10 1		51 CASING	& OPEN HO	LE RECORD	2 ISL	SA ELSI OF OPENING OT NO)	31-33 DIAMETER 34-38 LENGTH 38-48 INCHES FEET
WATER FOUND AT - FEET	KIND OF WATER	INSIDE DIAM MATERIAL INCHES	WALL THICKNESS INCHES	DEPTH - FEET	N SCR	TERIAL AND TYPE	DEPTH TO TOP 41-44 30 OF SCREEN FEET
14		6/4 1 STEEL 2 GALVANIMER 3 CONCRETE 4 OPEN HOLE		0 68		PLUGGIN	IG & SEALING RECORD
89	SALTY 4 MINERALS 6 C GAS	5 □ PLASTIC //	19	68' 100	29-23 DEPT	H SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)
2 []	SALTY 6 GAS	3 CONCRETE 4 DOPEN HOLE 5 PLASTIC		60 /00	27-30	10-13 20 ¹⁴⁻¹⁷ 18-21 22-25	EMENT GROUT
2 🗆	SALTY 4 D MINERALS 6 D GAS FRESH 3 DSULPHUR 34 4 D MINERALS	24-25 1 □ STEEL 2 □ GALVANIZE 3 □ CONCRETE 4 □ OPEN HOLE	1			26-29 30-33 80	
PUMPING TEST METH	SALTY 6 GAS	S DELASTIC		<u> </u>	J 	LOCATION	OF WELL
71 AIR PUMP	WATER LEVEL 25	2 GPM 2	15-16 HOURS	17-18 MINS	IN DIAGRAM B	ELOW SHOW DISTANC NDICATE NORTH BY	CES OF WELL FROM ROAD AND
	PUNPING 22-24 15 MINUT			TES 35-37			
		FEET FEET	FEET END OF TEST	FEET 42		4	- 1.24,000 1.460 - 11
U IF FLOWING. GIVE RATE C RECOMMENDED PUM	GPN P TYPE RECOMMEN	DED FEET ECOMMEN		46-49			
SHALLOW	PUMP		10	GPM			
	54 WATER SUPPLY	s 🗋 ABANDONED.	INSUFFICIENT SUF	PPLY		x+25	
STATUS OF WELL	2 OBSERVATION V 3 TEST HOLE 4 RECHARGE WEL	VELL 6 ABANDONED 7 UNFINISHED	POOR QUALITY			Well	
55		S CONMERCIAL					
WATER * USE	3 [] IRRIGATION 4 [] INDUSTRIAL [] OTHER	7 D PUBLIC SUPPLY 1 COOLING OR AIR 9 D	CONDITIONING				/
	57 1 CABLE TOOL	6 🗍 BOR	NG				
METHOD OF CONSTRUCTIO	2 C ROTARY (CONV 3 C ROTARY (REVE ON 4 BOTARY (AIR)		ING				110487
	s D AIR PERCUSSIO		WELL CONTRAC		S REMARKS	a CONTRACTOR 59-	62 DATE RECEIVED 63-68 8
NAME OF WELL		AWC.	SZZZ			5222 INSPECTOR	APR 0 5 1994
RACTOR	BOX 437	FARP ON	WELL TECHNIC		ARKS		
NUMS OF WE	15isson	R SUBMISSION D	T-0190				-
	· //	DAY	1	(R 0			CSS. ES FORM NO. 0506 (11/86) FORM
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Ontario Ministry of Environment and Energy	an a		Ontario Water R WATER WELL 1530054	
Print only in spaces provided. Mark correct box with a checkmark, where applic	11	1530054	Municipality Con. 15 10 10 14 15 Con. 15	N i i i OZ
County or District	Address	on - Huntley	Con block tract survey 2 Date completed	etc. Lot 25-27
	1320 Richmond F	Rd., apt <u>418</u> Ottow Re Elevation RC	Basin Code II	
	OF OVERBURDEN AND BEDRO		ons) description	Depth – feet
				From To
Brown Sandy Clay Gray Sand		Wet Wet		4 11
Gray Gravel		Packe	d	11 15
Gray Limestone		Hard		15 81
Gray Limestone		Layer	ed & Broken	81 100
			· · · · · · · · · · · · · · · · · · ·	
32 14 WATER RECORD 51		43 54 BECORD Sizes of c	pening 31-33 Diameter	75 80 34-38 Length 39-40
Water found at - feet Kind of water Inside diaminche 10-13 1 Fresh 3 Sulphur 14 2 Salty 6 Gas 6 1%	e Material Wall s inches I	Depth - feet To From To 0 22*5	ir	Depth at top of screen 30 41-44 feet
15-18 Fresh ← ☐ Minerals 2 □ Salty 6 □ Gas	4	20-23 61	PLUGGING & SEALIN	
20-23 1 □ Fresh 3 □ Sulphur 24 4 □ Minerals 2 □ Salty 6 □ Gas	2 Galvanized 3 Concrete	22.5 100 From	- feet	Abandonment Abandonment
25-28 1 □ Fresh 3 □ Sulphur 29 2 □ Salty 4 □ Minerals 6 □ Gas 24-		27-30 10-13 27-30 20.5	6 Grouted -	Hole Plug
30−33 ¹ □ Fresh ³ □ Sulphur ³⁴ ⁶⁰ ⁴ □ Minerals ² □ Salty ⁶ □ Gas	3 Concrete 4 Open hole 5 Plastic	6,6-29	Q ₋₃₃ Bock Cuttin	198
Pumping test method "Pumping rate	11-14 Duration of pumping 17-16 IS-IM	/ LO		
Static level Water level end of pumping 25 Water levels during	Pumping 2 Recovery	In diagram below show Indicate north by arrow.	distances of well from roa	ad and lot line.
	es 45 minutes 32-34 60 minutes 35-37 12pant A #] theet A # 1] # feet	Richardson	side Road	
If flowing give rate ³⁸⁻⁴¹ Pump intake set at GPM	Water at end of test 42 feet □ Clear □ Cloudy	I measurements from footing	l .7km	, ا ٹی ٹ
Shallow Deep	43-45 Recommended 46-49 pump rate 5 GPM	Grown Gootings	1	ÒC.ª
FINAL STATUS OF WELL 54		47/5	1	\mathbf{S}
1 Water supply 5 Abandoned, insuffic 2 Observation well 6 Abandoned, poor qu 3 Test hole 7 Abandoned (Other)	sient supply ⁹ □ Unfinished ⊔ality ¹⁰ □ Replacement well	4	- 	Road
Recharge well Bewatering		1	1 f	
WATER USE 55-56 1 Domestic 5 2 Stock 6 3 irrigation 7 4 Industrial 8 Cooling & air condit	9 □ Not used 10 □ Other	I	I	Carp
METHOD OF CONSTRUCTION 57 1 Cable tool 5 Air percussion 2 Rotary (conventional) 6 Boring 3 Rotary (reverse) 7 Diamond 4 Rotary (air) 8 Jetting	9 Driving 10 Digging 11 Other			 183847
Name of Well Contractor	Well Contractor's Licence No.	Data 58 Contracctor	59-62 Date rece	
Capital Water Supply Ltd.		Date of inspection	Inspector	<u> </u>
P.O. Box 490 Stittsville,On Name of Well Technician	Well Technician's Licence No.11	Remarks		
S. Mibler Signature of Technician/Contractor	10097 Submission date day 6 mo 5 yr 98	MINISTR	CSS	5.

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(07/94) Front Form 9

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County or District	ANA CAR.		wnship/Boro	ugh/City/To ST	own/Villen	ARL	ETON	Con block	tract surve	y, etc. Lo	7
		Ad	o54	CAR	P R	20- R.	R.3 (ARP	Date completed		18-53 Jorith year
21				thing			vation RC	Basin Code			
		G OF OVERBU			CK MA	TERIALS (Depth	n - feet
General colour	Most common material		Other ma 5 T 0 I				Genera	al description		From	То
BROWN	SOLD GLAJ		5 101					<u> </u>		6	6
GREV	GRAVEL					-				15	18
GREY	HARD PAN									18	20
GREY	LIMESTON	ΙĒ				-				20	151
							····				
						-					
31											
32											<u>75</u> 80 th 39-40
41 WATER Water found at - feet	Kind of water II.	nside iam Materi	& OPEN		Depth		Z (Slot N		1-33 Diameter	³⁴⁻³⁸ Leng	feet
90 ¹⁰⁻¹³ 1 Fr	iresh 3 🗌 Sulphur 14 ir alta 4 🗌 Minerals	10-11 1 Steel 2 Galvar	12 inc	ches	From	To 13-16	Materia	al and type		Depth at top	of screen 30 41-44
15-18 1 N F	resh 3 🗆 Sulphur 19		nole - l	188	0	26					feet
135 2 E s	resh 3 Gas	17-18 1 🗆 Steel 2 🗆 Galvar	19 iized			20-23	61 Depth set	PLUGGING Annular space		Abandonm	ent
2 🗆 S 25-28 1 🗆 F	iaity 6 Gas	3 Concre 4 D Open I 5 Plastic	nole		24	151	From 10-13	To Mate		ement grout, be	entonite, etc.)
2 🗆 S	alty 6 Gas	24-25 1 □ Steel 2 □ Galvar 3 □ Concre				27-30	18-21	22-25 Po	<u> </u>	ND CE	MENT
1 🗆 F 2 🗔 S	10311 A C Minorolo	4 Open 5 D Plastic	nole				26-29	30-33 80			
71 Pumping test meth		11-14 Duration of GPM	f pumping 15-16 Hours				LC	CATION OF	WELL		
Static level Wate	er level 25 of pumping 25 Water levels during	g 1 Pumping	2 🗌 R	ecovery			m below sho porte by arro	ow distances o ow.	f well from	road and lot	line.
LS 19-21 19-21 Understand	$\begin{array}{c} 22\cdot24 \\ 90 \\ feet \end{array} \begin{array}{c} 15 \text{ minutes} \\ 40 \\ feet \end{array} \begin{array}{c} 30 \text{ minutes} \\ 5 \\ 5 \\ 5 \end{array}$	Pointes 45 minutes		nutes 35-37		114	e te le	//			
If flowing give rate	feet feet 38-41 Pump intake set at	Water at e	feet	feet 42	I € I	17		(/			
Recommended pump	numn setting	feet C ⁴³⁻⁴⁵ Recomm pump rat	ended	Xoudy 46-49	N		nié				
50-53	NDeep pump sexang 140	feet	° 10	GPM			105	*			
FINAL STATUS C	DF WELL 54 5 Abandoned, insu	ficient supply 9 🗆	Unfinished			ANNORE	and C	_			
 ² Observation w ³ Test hole ⁴ Recharge well 	well 6 🗌 Abandoned, poor 7 🗋 Abandoned (Othe	quality 10 🗌	Replacement	well		•	Rest ?	PRO-			
WATER USE						MORE		P			
1 Domestic 2 Stock 3 Irrigation	5 🚺 Commercial 6 🔲 Municipal 7 🔲 Public supply		Not use Other		CAY			//s			
4 🗌 Industrial	8 🗌 Cooling & air con	ditioning									
METHOD OF CO	5		Driving					\setminus			
 ² Rotary (conve ³ Rotary (reverse ⁴ Rotary (air) 	entional) ⁶ Dering se) ⁷ Diamond ⁶ Jetting		Digging Other							224	727
Name of Well Sentracto		Wall	ontractor's Lic	ence No	Data	a	58 Contractor	· · · · · · · · · · · · · · · · · · ·	59-62 Date rec	eived	63-68 80
BEN SKL		ILLING-4	73/	/	Sou	rce	47	<u>731</u>	JUN		
R.R.3 JA	ASPER. ONT.	KOGI				e of inspection		Inspector			
Name of Well Technyeit	m KULL	7	echnician's Lic		AT NINI	narks				CS	SS.ES1
Signature of Technician		Submi	ssion date	\ /	ПN IN						

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Ministry of the

Environment

Print only in spaces provided. Mark correct box with a checkmark, where applicable. The Ontario Water Resources Act WATER WELL RECORD 1532037

	es provided. with a checkmark, where appli		1532037	
County or District		Township/Borough/City/To West Carleto		tract survey, etc. Lot 25-27
ULLAVA	Carleton	Address		Date 14 06 01
01	UI.	80 Lightfood Northing	Place, Kanata ON. K2L 3L9	ii iii iv
21	м			
General colour	Most common material	OF OVERBORDEN AND BEDRO	General description	Depth - feet From To
Brown	sand	soil		0 8
Grey	clay			8 26
Grey	clay	boulders		26 47
Grey	limestone		······	47 123
			ung loft 1 ft shoop group	
		at tim	was left 1 ft. above ground e of drilling.	JIEVEL
31				
			43 54 54	
Water found		CASING & OPEN HOLE R ide Wall m Material thickness	CORD Sizes of opening 31- Depth - feet W (Slot No.)	33 Diameter 34-38 Length 39-40 inches feet
at - feet 109 ⁻¹³ 1 N	2 El Sulphur 14 inc	hes inches	Depth - feet Z (Slot No.) From To Material and type O 50 O	Depth at top of screen 30 41-44
15.18	□ Salty 6 □ Gas	2 Galvanized 3 Concrete 4 Open hole		feet
2 [Salty 6 Gas	5 □ Plastic	20-23	& SEALING RECORD
2 [Satty 6 Gas 6	2 Galvanized 2	50 123 From 10	ial and type (Cement grout, bentonite, etc.)
	☐ Fresh 3 ☐ Sulphur 29 4 ☐ Minerals 5 Salty 6 ☐ Gas	24-25 1 Steel 26 2 Galvanized	27-30 27-30 10-13 14-17 O Gro	uted-cement (3)
	☐ Fresh ³ [] Sulphur ³⁴ ⁶⁰ 4 [] Minerals] Salty ₆ [] Gas	3 Concrete 4 Open hole 5 Plastic	26-29 30-33 80	
Pumping test n		11-14 Duration of pumping		
71 airumlia		GPM 15-16 17-18 Hours Mins 1 K Pumping 2 Recovery	In diagram below show distances o	
	end of pumping 22-24 15 minutes 30 min	utes 45 minutes 32-34 60 minutes 35-37	Mindicate nontri by arrow.	A
5 SN 5 feet	75 feet 120 feet 10	NO feet 100 feet 75 feet Water at end of test 42	Oak C	reek Rd.
SNI 5 feet	GPM	feet Clear Cloudy 43-45 Recommended 46-49	# 7 93	3
Recommended	pump type Recommended pump setting §	B5 feet pump rate 5 GPM		
50-53				
 ¹ Deservat ² Observat 	ipply ⁵ Abandoned, insuff tion well ⁶ Abandoned, poor	quality 10 Replacement well		
 ³ Test hole ⁴ Recharge 		0	1	
WATER USE		9 🗋 Not use		
2 Stock 3 Irrigation 4 Industrial		10 🗌 Other	VIZ VIZ	
	CONSTRUCTION 57			
1 Cable too 2 Rotary (0	ol 5 CXAir percussion conventional) 6 D Boring	9 □ Driving 10 □ Digging 11 □ Other		000440
³ □ Rotary (n ⁴ □ x Rotary (a				230140
Name of Well Cont		Well Contractor's Licence No.	Source 58 Contractor	59-62 Date received 63-68 80
Capital Address	Water Supply Ltd.	1558	Z Date of inspection	JUL LO LUUI
Box 490	O, Stittsville, ON Anician	• K2S 1A6 Well Technician's Licence No.	Remarks	
S. Mill. Signatuße of Tochr	ler ,	T0097 Submission_date	Remarks	CSS.ES1
	Jane L	day 25mo Oleyr Ol		0506 (07/00) Front Form

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		Address	p/Borough/City/1 WIEST	Town/Villag	eton	K7H-	Con block tract sur Hap 4M74 3C8 Date complete	45 P	ot 232 <u>Hof / O</u> 7 <i>202</i> 1 month yea
21							Basin Code ii		
General colour	LOG OF OVERBURDEN AND BE General colour Most common material Other material				TERIALS (s	escription	Depth - feet From To		
gray	Clay							0	18'
brown	Gravel	-				····		18'	19
gray	Sharte line	Hone				<u></u> , <u>-</u>		17	200
							······		
					-				
							····		
31									
32									75 75
41 WAT Water found at - feet	Kind of water	nside diam Material	Wall thickness		n - feet To	Sizes of op (Slot No.)	ening ³¹⁻³³ Diame	eter ³⁴⁻³⁸ Ler inches	ngth ³⁹⁻ fei
10-13 1	□ Fresh ³ Sulphur 14 4 □ Minerals 5 Salty 6 □ Gas	nches ¹⁰⁻¹¹ 1 Steel ¹² 2 Galvanized	inches	FIGHT	13-16	Material and	d type	Depth at to	p of screen 41-44 feet
	□ Fresh ³	17 5 D Plastic	.188	0	25	61 P	LUGGING & SEALI		D
	□ Fresh 3 □ Sulphur 24 4 □ Minerals 5 Salty 6 □ Gas	17-18 1 □ Steel 15 2 □ Galvanized 3 □ Concrete 4 □ Open hole			20-23	Depth set at -	Annular space feet To Material and type	Cement grout,	
	□ Fresh ³ □ Sulphur ²⁹ ⁴ □ Minerais −−− Salty ⁶ □ Gas	24-25 1 □ Steel 24 2 □ Galvanized	5		27.30	25 ³ C	14-17 22-25	d Gra	x+
³⁰⁻³³ 1 2	☐ Fresh 3 ☐ Sulphur 34 60 4 ☐ Minerals 6 Gas	3 Concrete 4 Open hole 5 Plastic				26-29	30-33 80 QUICH		
71 Pumping test		11-14 Duration of pum 15-16 GPM Hour	ping 17-18 s Mins			LOCA	TION OF WELL		
Static level	Water level 25 end of pumping Water levels durin	ng 1 🗌 Pumping	2 Recovery	Ι.	In diagrar Indicate r	n below show o orth by arrow.	distances of well from	m road and l	ot line.
19-21 B 5	260 125 6	tinutes 29-31 2 feet 45 minutes 32-34 2 feet	60 minutes 35-37	Drion					$\mathbf{\hat{n}}$
SNIdWING give		feet feet Water at end of t feet Clear	est 42	DINCHIL				۱	N N
Recommender		43-45 Recommended pump rate		な					
50-53	US OF WELL 54								
1 Water s 2 Observ 3 Test ho	supply ⁵ Abandoned, inst ation well ⁶ Abandoned, poo	r quality 10 🗋 Repla	shed cement well	F					
4 🗌 Rechar	ge well ^B Dewatering								
VATER USE	6 🗌 Municipal	9 🔲 Not us 10 🗌 Other			C	inp Rd.			
3 □ Irrigatio 4 □ Industri	ial 8 🗌 Cooling & air co	nditioning				Hong	5		
1 🗆 Cable t	F CONSTRUCTION 57 tool 5 1 Air percussion (conventional) 6 Boring	⁹ □ Drivin ¹⁰ □ Diggi		INK.		00 (33	12		
² □ Rotary ³ □ Rotary ⁴ □ Rotary	(reverse) 7 Diamond	11 Other		Óttur			14	223	516
Name of Well Co		Well Contrac	ctor's Licence No.		ia Irce	58 Contractor	59-62 Date		2001 63-68
Address		<u>n41 33</u>	25		te of inspection	<u> </u>	spector	JLIU	LUUI
Address Box Name of Well Te	chnician	ONT KOJ-	-1HO sian's Licence No.		marks			~~~~	
Signature of Tec	hnician/Contractor	Submission						CSS.I	ESt
14.00	stry OF THE ENVIR		07 yr01					0506 (07/	00) Front Fo

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County or District		Address	y/Town/Village eton - Huntley r. Nepean, Ont RC Eleva	2 ario K2H 5P4	ck tract survey, etc. Lot 25.27 7 Date 48.53 completed 23day 10 mont@1 year e ii iii iv
21	м то	12 17 18			47
General colour	LOG Most common material	OF OVERBURDEN AND BED Other materials	ROCK MATERIALS (se	General description	Depth - feet
					From To
Brown	Sand Hardpan				<u> </u>
Gray Gray	Linestone				<u> </u>
				· · · · · · · · · · · · · · · · · · ·	
Water found at - feet	1 1 21 15 21 15 21 16 21 17 1 18 RECORD 19 3 10 Minerals 11 14 11 Minerals 11 14 11 Minerals 11 19 11 19 12 17 12 17 13 Sulphur 14 17 15 17	Material thickness inches 44 1 20 Steel ¹² • 188 2 Galvanized 3 Concrete 4 Gepen hole 5 Plastic		Sizes of opening (Siot No.) Material and type (Sidt No.)	Image: state
25-28 1 F 2 S 30-33 1 F 2 S	Fresh 3 3 Sulphur 29 Salty 4 Minerals 6 24- Fresh 3 Sulphur 34 60 Salty 6 Gas 60 60 Salty 6 Gas 60 60	5 Plastic 25 1 Steel 26 2 Galvanized 3 Concrete 4 Open hole 5 Plastic 5 Plastic 5 1 1-14 Duration of pumping 1 1	27:30 150 170	23.5 0 ^{14.17} Gro 18.21 22-25 26-29 30-33 60	outed - Cement (5)
71 1 Pump 2 Static level Wat 19-21 19-21 11 feet 11 feet 16 flowing give rate Recommended pum 50-53	Bailer 10 G ter level l of pumping 25 Water levels during 22:24 15 minutes 26:28 30 minute 70 feet 38 feet 55 9 38-11 Pump intake set at 55 GPM Recommended pump setting 125	PM 15-16 Hours 17-18 Mins 1X Pumping 2 □ Recovery	H Indicate not	LOCATION OF below show distances th by arrow. $\frac{2 r p R }{30'6''} \int_{1}^{1} \int_{1}^{1$	of well from road and lot line.
FINAL STATUS	y 5 Abandoned, insufficie well 6 Abandoned, poor qua 7 Abandoned (Other) 8 Dewatering 55-56 5 Commercial 6 Municipal 7 Public supply 8 Cooling & air conditio	9 Not use 10 Other		00 pe *	
METHOD OF CO 1 Cable tool 2 Rotary (conve 3 Rotary (reven 4 2 Rotary (air)		9 Driving 10 Digging 11 Other			ו 23800 9
Name of Well Contract Capital W Address P.O. Box	Nater Supply Ltd.	Well Contractor's Licence No. 1558 Ontario K2S 1A6	Source	Contractor 1558 Inspector	59-62 Date received 63-68 80 NOV 2 7 2001
Name of Well Technicia S. Miller Signature of Techniciar	ian C n/Contractor	Well Technician's Licence No. TOO97 Submission date day25 mo 10 yr01	Remarks	I	CSS.ES1

Signature Technician/Contractor 2 - MINISTRY OF THE ENVIRONMENT COPY

🕅 Onta	Ario Ministry of the Environment	1532	2401		he Ontario Water Resources Act WATER WELL RECORD			
Print only in space Mark correct box	es provided. with a checkmark, where applical		153240					
County or District	Varleton	Township/Borough/City/	Town/Village n Huntley	Con block tract surve	ey, etc. Lot 25-27			
ULLAWA	difecon	Address	n Rđ., Nepean Ot	Date	48-53			
01	Ui	Northing	RC Elevation	RC Basin Code ii	day month year			
21				$ \begin{array}{c c} \\ \hline \\ 30 \\ \hline \\ 31 \\ \\ 31 \\ \hline $	47			
General colour	Most common material	F OVERBURDEN AND BEDR Other materials		General description	Depth - feet From To			
Brown	sand				From To			
Grey		nd boulders			5 18			
Grey	gravel	broken rock			18 23'6"			
Grey	Limestone				23'6' 50			
		· · · · · · · · · · · · · · · · · · ·						
		· · · · · · · · · · · · · · · · · · ·						
Note ca	sing was left 4 ft.	above ground leve	<u>l at time of dri</u>	illing.				
				······				
31	$\frac{1}{1} + \frac{1}{1} + \frac{1}$		<u>」</u> └ <u>╷╷╷╷╷╷╷╷</u>	┘└ <u>╷╷╷╷╷╷╷╷╷╷</u> ╷╷╷╷╷				
10 14	15 21 21 51 51	CASING & OPEN HOLE F		Sizes of opening 31-33 Diameter	r 34-38 Length 39-40			
Water found at - feet	Kind of water diam inches	Wall Material thickness inches	Depth - feet	(Slot No.)	inches feet			
	Fresh ³ Sulphur ¹⁴ ⁴ Minerals Salty ⁶ Gas	1 🕱 Steel 12 • 188	From To W	Material and type	Depth at top of screen 41-44 feet			
45 ¹⁵⁻¹⁸ 1 N	OTest TE Carter hur 19	3 Concrete 4 Open hole 5 Plastic		PLUGGING & SEALIN				
20-23 1	Fresh 3 Sulphur 24	1 🖸 Steel 19 2 🗍 Galvanized	20-23	Annular space	Abandonment			
25.29	Salty 6 Gas 6	3 Concrete 4 XOpen hole 5 Plastic		-rom 10	Cement grout, bentonite, etc.)			
2 🗌	Salty 6 Gas 24-25	1 🖸 Steel 26 2 🗋 Galvanized 3 🗖 Concrete	27-30	18-21 22-25 GLOGLEG	Ceneric (5)			
111	Fresh 4 🗆 Minerals Salty 6 🗆 Gas	4		26-29 30-33 80				
71 Pumping test me		4 Duration of pumping 15-16 17-18 M 1 Hours Mins		LOCATION OF WELL				
1 LaPump 2 L	Vater level 25 Water levels during	M 15-16 17-18 Hours Mins	Indicate north	ow show distances of well from				
IS 19-21	22-24 15 minutes 30 minutes 29-29	31 45 minutes 32-34 60 minutes 35-37	Car	pra (0.C. * 5)			
5 4 feet	20.41	et 25 feet 25 feet 42) 			
Salar de la feet de la	GPM fe	et 🗌 Clear 😭 Cloudy						
Recommended pu	pump setting	⁴⁵ Recommended ⁴⁶⁻⁴⁹ pump rate 5 GPM						
50-53								
FINAL STATUS ¹ Water supp ² Observation				× P.H.cs				
 ³ Test hole ⁴ Recharge v 	7 D Abandoned (Other)	,		No Building Welling Frent	0			
WATER USE	55-56	9 🗌 Not use						
1 Stock 2 Stock 3 Irrigation	5 🖸 Commercial 6 🗌 Municipal 7 🗋 Public supply	10 🗋 Other			4			
4 🗌 Industrial	8 🗌 Cooling & air conditioni	ng		Re	5 Lat			
1 🗋 Cable tool	57 5 X Air percussion	9 🗌 Driving		6 2/	35 ×			
 ² □ Rotary (cor ³ □ Rotary (rev ⁴ □ Rotary (air) 	verse) 7 🗋 Diamond	¹⁰ Digging ¹¹ Other	Tanoley	Vie F	230284			
	· · · · · · · · · · · · · · · · · · ·							
Name of Well Contra	Nater Supply Ltd.	Well Contractor's Licence No. 1558	Data 58 Co source	1558 Date rec				
Address Box 490	Stittsville, ON. K	as 1a6	Date of inspection	Inspector				
Name of Well Techni	ician	Well Technician's Licence No.		L	m (N) 1			
S. Mill Signatzire of Technic		TOO97 Submission date	A Hermarks	e -	088.ES1			
Afrance	inf	day 16 mo 10 yr 0/	Z		0506 (07/00) Front Form			

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Ottawa Carleton Address			We Address	Borough/City/	eton -	- Huntl		2	act surve Date		8	
21		Ŭ						evation RC	Basin Code		17 _{day} 03 r	
		M 10	LOG OF O	/ERBURDEN	AND BEDR	OCK MA	TERIALS (30 see instructio	31 Dins)		Dept	47 h - feet
General colour	Most o	common materi	ial		er materials			General	description		From	То
Brown		Soil Limesto		San	id & Gra	vel					0 13	13 48
Gray		LINEOL						· · · · · · · · · · · · · ·				40
									· · · · · · · · · · · · · · · · · · ·			
31												
Water found at - feet 10-13 1 2 2 3-40 2 15-18 1 1 2 5 20-23 1 1 2 5 20-23 1 1 2 5 20-23 1 1 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5	Salty 6 TTESH 4 Salty 6 Fresh 3 Fresh 4 Salty 6 Fresh 3 Salty 6 Fresh 3 Salty 6 Fresh 3 Fresh 3 Fresh 3 Fresh 3 Fresh 3 Fresh 3	Sulphur 14 Minerals Gas Sulphur 19 Minerals Gas Sulphur 24 Minerals Gas Sulphur 29 Minerals Gas Sulphur 34 60 Minerals	2 [3 (4 (5 [2 (3 (4 (5 (2 (3 (4 (5 (2 (3 (4 (5 (2 (3 (4 (4 (2 (3 (4 (5 (2 (3 (4 (5 (2 (3 (4 (5 (5 (2 (3 (4 (5	Material Steel 12 Galvanized Concrete Plastic Steel 19 Galvanized Concrete Open hole Plastic Steel 26 Galvanized Concrete Open hole Plastic Open hole Plastic Open hole Plastic	Wall thickness inches .188	From + 1.	1- feet To 211-16 20-23 48 27-30		PLUGGING & Annular space - feet To 14-17	and type (C	Inches Depth at top G RECORE Abandonn Gement grout, be Cement Hole P	41-44 feet ment entonite, etc.)
71 Pumping test met	Bailer	Pumping rate	25 GPM	Duration of pumpir	ng 17-18 Mins		In diagra		ATION OF WE		road and lo	line
Static level end 19-21 11' 3feet 2 If flowing give rate Recommended pur	GPM	Water levels	30 minutes 29-31 4 45 feet		Recovery Recovery 60 minutes 35-37 25 feet 42 (3) Cloudy 46-49 5 GPM			north by arrow			< \) -	
FINAL STATUS 1 DX Water supply 2 Observation 3 Test hole 4 Recharge we	well	54 5 (1) Abandoned, 6 (1) Abandoned, 7 (1) Abandoned 8 (1) Dewatering	poor quality	ly ⁹ □ Unfinish ¹⁰ □ Replace					T	Tan	sley eis rdus Ros	13
WATER USE 1 Stock 2 Stock 3 Irrigation 4 Industrial	•	55-56 5 Commercial 6 Municipal 7 Public suppl 8 Cooling & ai	by .	9 🗆 Not use 10 🔲 Other						4	Ro	4
METHOD OF CC 1 Cable tool 2 Rotary (conv 3 Rotary (rever 4 X Rotary (air)	rentional)	TION 57 5 X Air percussion 6 Boring 7 Diamond 8 Jetting	on	9 Driving 10 Digging 11 Other				<u>()</u> .C	*5		250	 585
Name of Well Contract		Cumm1 7	+ 7	Well Contractor	r's Licence No.			58 Contractor	5 8 ⁵⁹⁻⁶	2 Date rec MAY	-	63-68 80
Capital Address		Supply L		<u>1558</u>	126		e of inspection		nspector		<u> </u>	
P.O. BOX Name of Well Technici S. MILLE Signature of Technicia	ian	Stittsvi	lle,Onta	Well Technician TOO97 Submission dat	n's Licence No.		narks				CSS	S.ES3
amar	~~~	\sim		day20 mo	03 yr 03	∑						

Capital Water Supply Ltd.	1558
Address	
P.O. Box 490 Stittsville,Ont	ario K2S 1A6
Name of Well Technician	Well Technician's Licence No
S. Miller	T0097
Signature of Technician/Contractor	Submission date
aman	day20 mo 03 yr 03
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Data source	58 C	entract	5	5	8	59-62	Dat M	e rece AY	ived O	7	2003	63-68	80
Date of inspection			1	nspec	ctor							-	
Remarks									(C	SS.I	ES.	3

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County or District	sa (as let		Township/ Address	/Borough/City/ S+ Ca Monthing	Town/Villay	ba(1	lun+(Con block tract Date comp Basin Code	weted 17 0	1-
			/ERBURDEN					<u>ions)</u>		47
General colour	Most common materia	1	Othe	er materials			Genera	I description	Dept From	h - feet To
	sand		GIAN	el					0	25
grey	Creston	0	<u> </u>					· · ·	<u></u> 20	200
								······		
31		<u>Lı.Lı.L</u> ı		<u>I I I I I I</u>						L) L.L.L.L.
	A 15 21	51 C	ASING & OF	PEN HOLE F		1 - feet			65 ameter 34-38 Lenç	75 80 jth 39-40
at - feet	Kind of water	diam inches	Material	thickness inches	From	To 13-16		and type	inches Depth at top	feet of screen 30
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Ministry of the Environment Well Tag Number (Place sticker and print number below) 1 006995

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Well Record Regulation 903 Ontario Water Resources Act

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Instructions f	for (Comp	leting	Form
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A006995

- 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**

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P.O. Box 490 Stittsville, ONtario K2S 1A6 JUN 2 4 2004 Name of Well Technician (last name, first name) Well Technician's Licence No. Remarks Stanton: Peter TO086 CSS143 Well Record Number Signature of Vencional Contractor Date Submitted YYYY MM DD X Hummon 2004 4 30 Vencional Action 1534685	Business Address (street	Supply name, numbe	r, city etc.)		1558		Date Received			
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Instructions for Completing Form

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Well Record Regulation 903 Ontario Water Resources Act

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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	•	unty/District/M	unicipality)		Fownship	11	LAND TT	Lot		Conce	ession	•
RR#/Street Num	ber/Name				City/Tow	/n/Vil	eton - H u lage	intley 7 Site/Compa		nt/Block/Tr	act et	2 c.
2636 Carp						rp						
GPS Reading	NAD 8 3	Zone East 18 42		hing 16665	Unit Mak		odel Mode		lifferer erentia	ntiated 🔹 💙	Aver	aged
Log of Overb			laterials (see inst	tructions)								
General Colour	Most com	non material	Other Ma	aterials			Genera	al Description		Dep	oth om	Metres To
Brown	Soi	1	Stones	3			Pac	:ked		0	2001	3.65
Gray		lpan		T				:ked			.65	5.48
Gray		estone	Colou	red Laye				lium			.48	52.73
0107			001001	teu Daye			neu)	.40	52.15
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Hole Di	ameter		Cons	struction Re	cord			Tes	t of	Well Yield		
Depth Met		i inside		Wall	Dept	h	Metres	Pumping test method		raw Down		ecovery
From To		Centimetres	Material	thickness centimetres	From	n	То	submersible	Time	Water Leve Metres	Time min	Water Level Metres
0 6.	85 22.	53	'l		,			Pump intake set at -	Statio			
6.85 52.	73 15.	23	Store Charles	Casing				(metres) 50.90 Pumping rate -	Leve		1	00.07
		15.86	Steel Fibreglass	0.48	+ 0.	45	6.85	(litres/min) 18.2	1	11.34	1	32.07
Water F	Record		Galvanized					Duration of pumping	2	11.75	2	31.13
Water found at Metres	Kind of Wate	er 🛛	Steel Fibreglass					hrs + min				
	resh Sulpl	11	Plastic Concrete					Final water level end of pumping 32 metres	3	12.27	3	30.82
Gas Sa	alty Mine	rais	Galvanized					Recommended pump	4	12.76	4	30.77
m Fr	resh Sulpi	 nur	Steel Fibreglass					type. Shallow XDeep		12.10		
Gas Sa	alty Mine	11	Plastic Concrete					Recommended pump	5	13.23	5	30.74
Other:	· · · - : · ·	•••	Galvanized	Saraan				depth 48,76 metres Recommended pump				
	resh Sulpl alty Mine			Screen				rate. (littes min)	10 15	1 4 4 4 4 4	<u>10</u> 15	30.47
Other:		diam	Steel Fibreglass	Slot No.			* * *	If flowing give rate -	20	17.91		30.21
After test of well y		s	Plastic Concrete					(litres/min)	25	21.94	25	29.70
Clear and sedi			<u> </u>		i			If pumping discontin- ued, give reason.	30	23.73	30	29.50
Other, specify			· · · · · · · · · · · · · · · · · · ·	asing or S	creen				40	27.17	40 50	29.10
Chlorinated 🔀 Ye	es No	15.23	Open hole		6.8	5	52.73		60	30.23	60	28.76
Р	lugging and	Sealing Rec	ord X Annula	r space	Abandonme	ent		Location		32.15		28.53
Depth set at - Metre	1		slurry, neat cement slurry	v) etc Vol	ume Placed		In diagram below	v show distances of well fr			and bu	ilding.
From To 6.85 0	Creation	J Dent			bic metres)		Indicate north by	arrow.		i	ŀ	
6.85 0	Groute	a – Dent	onite Slurry	0.3	42m3	-	74	*				
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Rotary (reverse)) 🗌 Bor		Driving					1				
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Domestic		ustrial nmercial	Public Supp	ily	Other			J - P		•		
Irrigation	logaret a	nicipal	Cooling & ai	ir conditioning			Audit No. Z	N7000 Dat	e Wel	Completed	·v	MM DD
			atus of Well		,	_		07080 ^{Dat}	<u>a D - P</u>	2001		3 22
Water Supply Observation wel	Recharg	e well ned, insufficient s	Unfinished	∐ Abar	doned, (Othe	er)	Was the well ow package delivered		e Deli	vered 7	YYY I	3 30
Test Hole	Abandoi	ned, poor quality	Replacemer			'					•	
Name of Well Contr		Contractor/Te	chnician Informatio	on ell Contractor's			Data Source	Ministry Us	e On ntracto			

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Remarks

Capital Water Supply Ltd

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r, city

2.0. Box 490 Stittsville, Ontario K2S 1A6 Jame of Well Technician (last name, first name) Well Technician's Licence No.

s Address (street name,

Miller; Stephen

KUU

Signature

0506E (09/03)

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Cette formule est disponible en français

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Date of Inspection YYYY MM

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Instructio	ns for	Comple	etina	Form		A	013760		·· · · · · · · · · · · · · · · · · · ·	~~~~ <u>~</u> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				je _	of
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Ottava C RR#/Street N 152 Reis GPS Reading	umber Roa	/Name	Zone	Eastin	ng	No	rthing		st Car ty/Town/V Carp nit Make/M	-	Site/Comp	8 artme		ract et	
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Hole	Diam	eter				Con	struction Red	pro	ł		Tes	it of \	Well Yield		
Depth From	Metres To	Diamet Centimet		Inside diam	Ma	aterial	Wall thickness	Ι	Depth	Metres	Pumping test method		raw Down Water Leve		ecovery Water Leve
	6.40		ce	ntimetres			centimetres		From	То	Submersible Pump intake set at -	min	Metres	min	Metres
0 6.40 4			9 -	5.86		Fibreglas	Casing	*	0.45	6.40	(metres) 30.48 Pumping rate - (litres/min)		1.95	1	2.22
Water found atMetres	er Rec	ord nd of Water			Galvar	Concrete					hrs + mir	2	2.91	2	2.18
42.67 Gas	Fresh	Miner				Concrete					Final water level end of pumping 3 mitres Recommended pump	3	2.97	3	2,10
Other: A	Fresh Salty	sted Sulph			J	Fibreglass	S				type. Shallow Deep Recommended pump depth. 22.86 etres	5	3.00	5	2.10 2.08
	 Fresh Salty	 Sulph		Dutside diam	Steel	Fibreglas	Screen Slot No.				Recommended pump rate. (Mresomin) If flowing give rate -	10 15	3.06	10 15	2.04
After test of we	sedimer		8		Plastic		· · · · · · · · · · · · · · · · · · ·				(litres/min) If pumping discontin- ued, give reason.	20 25 30	3.10 3.10 3.10	20 25 30	2.03 2.01 2.00
Other, spe	cify				- h -		Casing or Sci	reer	n	1		40	3.12	40	1.97
Chlorinated 🖠	Yes	No	1	5.39	SOpen I	iole			6.40	45,11		60	3.11	60	1,99
Dooth pot at		ging and				Annu Annu			idonment Placed		Location			andbu	:1al:max
Depth set at - I From	To	Material and	l type (b	entonite s	lurry, neat	cement slun	y) etc. (cub	i¢ m	etres)	Indicate north b	w show distances of well fi y arrow.			sna bu S	ilaing.
6.40	0	Groute	d -	Bento	mite	Slurry	0.2	2	3	1	y arrow.	ſ			
										88					
		<u> </u>	Meth	nod of (Constru	ction		┢		9-Re-	Bar		L		
Cable Tool		K Rota	ry (air)		· [Diamond	[T	igging	9	Reis	<u>یم</u> ز	Q ^r		ł
Rotary (con		I) [≱] Air ∏Bori	percussi ng			_ Jetting] Driving	·		ther		Ro Pers	ost	-		
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	ļ	Mur	icipal	nal Stat		Cooling &	air conditioning	╞		Audit No. Z	13741 Da	te Well	Completed	ry .	MM DD
🔀 Water Supp	iy [Recharge	ļ	nai Stat		Unfinished	Abanc	lone	d, (Other)	E CONTRACTOR		te Deli	vered Y	YYY	8 24 MM DD
Observation	-	Abandon	ed, poo			Dewatering	ent well			package delivere			200	4	8 25
Name of Well 0	Contract		ontrac	ctor/Tec	hnician	Informat V	i on Vell Contractor's	Lice	nce No.	Data Source	Ministry Us Co	e Onl	~		• ~
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Business Addre				-)ntari	lo K2S	146	ļ.			1 0 2004	5			
	1			name)		V	Vell Technician's		ence No.	Remark		Il Rec	ord Number		
Miller: Signature of Te X 0506E (09/03)	4 12	Contracto	1_	Cont	ractor's		the Submitted YYY 2004 Ministry's Copy	118		ner's Copy 🗌	Cette f	ormul	153 le est dispo		
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P Ont	ario	Ministry of	Well Tag Number (P	ace sticker and pr	int number below)		Well R	Record
	.9	the Environment		574		Regulation 903 Ontar 1535188		ources Act
 Instructions for For use in th 	1	-	L 1		al document. P	lease retain for future refe		0
 Questions re 	garding co	mpleting this applicati	on can be directed	to the Water		d explanations are available on nent Coordinator at 416-23		f this form.
		nts shall be reported lue or black ink only.	to 1/10 th of a metr			Ministry Use Only		
Well Owner's In	nformatio	n and Location of V	Vell Information	MUN			LOT	C71
RR#/Street Numbe	Mange - (CARLETON	2	City/Town/Y	JTLEY illage	Site/Compartment	Block/Tract el	¢1. 0
GPS Reading			Northing	Unit Make/M		of Operation: Undifferentia		raged
Log of Overbur	8 3 den and E	Bedrock Materials (5017086 see instructions)	MASE		Differentiated	· · · · · · · · · · · · · · · · · · ·	
General Colour	Most commo	n material	Other Materials		Genera	I Description	Depth From	Metres To
	GRAV	EL	: · ·				4.26	4.06
GREYBLA	ek L	IMESTONE					3.18	24.38
							-	
	-						· · ·	
			ч.					· · · · ·
Hole Diam Depth Metres		Inside	Construction Re Wall	cord Depth	Metres	Test of We Pumping test method Drav		Recovery
From To					То	OUDPUM min	/ater Level Time Metres min	
0 94.0	109		Casing			Pump inteke seta Static (metree)		1 34
		88 Plastic	O	0	6.70	(litres/min)		4.09
Water Red Water found at	cord nd of Water	Galvanize			0,10	hrs +0 min	2	
Fresh		Plastic	Concrete			Final water level end 3 c		4.03
	· <u> </u>	Steel	Fibreglass			Recommended pump 4		3.92
						Recommended pump 5	5 76 5	3,81
m Frest		S Outsido	Screen		·····	Recommended pump 10 rate. (litres/min) 15	 10 15	372
After test of well yield		diam	-			If flowing give rate - 20 (litree/min) 25	.30 20 .34 25	3.58
Clear and sedime	nt free	Galvanize	d No Casing or So	reen		If pumping discontin- ued, give reason. 40	.31 30 .43 40	
Chlorinated Z Yes		Open hole		6.09	24.38		.57 50 .6 2 60	
Plu	gging and S	Sealing Record		Abandonment		Location of Well	5-0-1 00	
I From I I Io		ype (bentonite slurry, neat ce	(cut	me Placed pic metres)	In diagram below Indicate north by	v show distances of well from road arrow.	, lot line, and bu	Hilding.
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		· · · · · · · · · · · · · · · · · · ·			0	1 Rein Ori	re	
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Cable Too	Rotary	Method of Constructi	on Diamond	Digging	K	anda	M.	
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Stock		nercial 🗌 N	lot used Cooling & air conditioning		Audit No. 🍟		Sompleted	
Water Supply	Recharge	Final Status of Well		doned, (Other)	<u> </u>	ISUB4 Iner's information Date Deliver	200 4 1	
Observation well	Abandone	d, insufficient supply	Dewatering		package delivere		2004	62
	Well Co	ntractor/Technician Ir	formation	Licence No.	Data Source	Ministry Use Only Contractor	111	9
Name of Well Contrac ALR ROCK Business Orgress (str	eet same hun	nber, city etc.)	1119		Date Received		ection YYYY	MM DD
Name of Well Technic	KIC+ an (last name	tMOND, ONI	Well Technician's	Licence No.	NOV 1 Remarks	6 2004 Well Record	l Number	
Signature of Technicia	GAN m/Contractor	(DATA)	Date Submitted YY		ng∛ ng t	1 1	53518	38
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 For us All Sec Questi All me 	e in the l ctions m ions rega tre mea	Province o ust be com arding comp	of Ontario pleted in t pleting this s shall be	full to avoi s applicati reported	d delays on can b	s in process	ing. Further to the Water e.	instructions an	Please retain for future refe d explanations are available ment Coordinator at 416-2 Ministry Use Only	e on the back of 235-6203. V	f this form.
Well Own	er's Inf	ormation a	and Loca	tion of W	/ell Info	ormation	MUN	C	ON	LOT	
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Log of Ov General Cold		en and Be		aterials (s	Other Ma	<u>_</u>		Gener	al Description	Depth	Metres
										From	
brown light	soi brown	sandy s	o1]	SLO	nes		TC	ose		0	3.35
gray		rdpan	<u>V</u>				กค	icked		6.09	7.61
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	le Diamet	tor	T			struction Re	oord	······································	Test of M	Vell Yield	
Depth	Metres	Diameter	Inside	·	Cone	Wall	Depth	Metres			Recovery
From	То	Centimetres	diam centimetres	Mate	rial	thickness		То	Time submersible min		e Water Level Metres
0	9.44	22.75	Centurnettes			Casing		10	Pump intake set at - Static (metres) 45.71 Level		
9.44	83,20	15.39		Steel	Fibreglass		1		Pumping rate - 1	5.23 1	5.54
			15.86	Plastic	Concrete	0.48	+.60	9.44	(litres/min) 45.5 Duration of pumping 2	5 45 2	5.34
Water found at Metres	ter Reco	ord I of Water		Galvanize	d Fibreglass		****	2.44	hrs + min	5.45 2	J.J4
l m	Fresh	Sulphur		Plastic	-	, 		- e-	Final water level end 3	5.58 3	5,31
11 c58	Salty	Minerals		Galvanize					Recommended pump 4	5.66 4	5.27
81.07	 Fresh				Fibreglass				type. Shallow TDeep Recommended pump 5		
Gas Not Tes	Salty	Minerals		Galvanize			-		depth. 45.7fletres	5.74 5	5.23
m	Fresh	Suiphur				Screen			Recommended pump 10 rate. (litres/min) 15	5.92 10	
Gas	Salty	Minerals	Outside diam	Land	Fibreglass	Slot No.			(litres/min) 15 If flowing give rate - 20	6.02 15 6.16 20	
After test of				Blastic Galvanize					(litres/min) 25	6.15 25	4.81
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Irrigation		Municip	al		Cooling &	air conditioning		Audit No. Z	27087 Date Wel	Completed	MM DD
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		Well Con		chnician I	nformati	ion	- 1 :	Data Saura	MinIstry Use On Contract	Ór.	
Name of Wel		er Suppl	v Itd		Ţ	Vell Contractor': 1558	s Licence No.	Data Source	Contract	558	
Business Ade	dress (stree	et name, numb	er, city etc.)	-1 - 1964	a a	<u></u>		Date Received	6 ZUD MM DD Date of Ir	spection YYYY	MM DD
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Miller Signature	A Ste	/Contracton		<u>.</u>	D	TOO97 ate Submitted YY	YY MM DD				
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Instructions for Completi	ng Form	ADZ	6014		1536096	
• For use in the Province	of Ontario only This	s document is a pe	rmanont legal	locument Bk		page of
		ia nelavs in proces	CINA Further inc	structions and	a secolar a financia de la secolar de la s	
All metre measurement	s shall be reported			/ell Managem	ent Coordinator at 416	-235-6203.
 Please print clearly in blu 	ie or black ink only.				Ministry Use On	ly
Well Owner's Information	and Location of M	ell Information	MUN	CO	N	LOT
RR#/Street Number/Name	- INFOR	ION	City/Term/Villa	L'FR	8	d
#132 K	EIS KON	AD		KP	Site/Compartme	nt/Dock/Tract etc.
8 3	3 423064	Northing Sol 7337	Unit Make/Mod		of Operation:	tiated Averaged ted, specify
Log of Overburden and Be	the second s	ee instructions)			Dinerentia	
General Colour Most common	material	Other Materials		General	Description	Depth Metres From To
DAND	+ GKAUE	1				0 1,20
GKEY	LIMESTO	NE	1			1.22 3657
GREVI	IME STO	NE+ SA	10 STO	NEN	IXED	36.57 45.72
				····		
	~ ~ ~					
Hole Diameter		Construction Re	cord		Test of V	Vell Yield
Depth Metres Diameter From To Centimetres	Inside diam Materi	Wall	Depth	Metres		aw Down Recovery
045.724-24	diam Materi centimetres	di thickness centimetres	From	То	SUBTURY min	Water Level Time Water Level Metres min Metres
	· ·	Casing			Pump interes	159 2994
	Steel F				Pumping rate1	4.23 1 26.44
Water Record		Concrete .48	0 -		Duration of pumping 2	566 2 2307
Water found atKind of Water		ibreglass			hrs + min	
Gas Safty Minerals	Plastic C	Concrete			Final water level end 3 of pump a metres	7.38 3 23.14
Other:	Galvanized	ibreglass			Recommended pump 4	8,89 4 22,25
m Fresh Sulphur				11	Recommended pump 5	0.00 5 21.68
Other:	Galvanized			5	deptinometres	
Gas Salty Minerals	Outside Steel	Screen			Recommended pump 10 rate. (litresimn) 15	4,57 10 7,70
After test of well yield, water was	diam Plastic C	i j	-		f flowing give rate - 20	20,32 20 256
Charend sectiment find	Galvanized			-	(litrestnin) 25 d If pumping discontin- ued, give reason. 30	24.30 30 0.65
Other, specify		No Casing or Sc			ued, give reason. 40	26.87 40 8,83
Chlorinated Ves No	Dpen hole		671 4	572	50	27.91 50 7.09
Plugging and Sea	aling Record	CAnnular space	Abandonment		Location of We	
Depth set at - Metres From To Material and type	e (bentonite slurry, neat cem			diagram below s dicate north by ar		
6.710 NEAT	CEMENT<	Sulfry .	227	dicate north by a	how distances of well from roa row. 3225 PERS 2307 PERS 2307 PERS	× 100
			****	1 stel	3035 201	Lion
				1 24	per E	
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M	ethod of Constructio	n l		Et		
Cable Tool Rotary (a	ir) 🗌 Dia	amond [Digging	∕ ∝		
Rotary (conventional) Rotary (reverse) Boring		tting [ving	Other		\mathbf{N}	
	Water Use			A B	$\sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i$	
Domestic Industrial	<u> </u>	blic Supply [t used	Other	V	\mathbf{N}_{i}	
Irrigation Municipa	Final Status of Well	oling & air conditioning	Ai	^{udit No.} Z	30843 Date Well	Completed
Water Supply Recharge wel	l 🗌 Un	finished Aban		as the well owne	r's information Date Deliv	ered YYYY My DD
Observation well Abandoned, i		watering	pa	ackage delivered?	Yes No	2005 1130
Well Cont	ractor/Technician Inf	ormation		ata Cours-	Ministry Use Only	
Name of Well Compactor	RILLING	Well Contractor's	Licence Mg.	ata Source	Contracto	1119
Businers Address (street name numbe	er, city etc.)	ANT K-		DEC 2 2	2005 Date of Ins	pection YYYY MM DD
Name of Well Tychnician (last hame, fir	stame)	Well Technician's		emarks	2005 Well Reco	rd Number
Signature of echnician/Contractor	STATIND	Dat e Sub mitted				
x Ano	\geq	0005				······································
0506E (09/03)	Contractor's Cop	y Ministry's Cop		s Copy 🗌	Cette formule	est disponible en frar

	Ministry of the Environment	Well Taç A 03	6038	oer below)	Reg 1536327	Well Record
Instructions for Completin	na Form	AO3	560	38	1000027	of
 For use in the Province of All Sections must be con Questions regarding com All metre measurement Please print clearly in blu Well Owner's Information 	of Ontario only. Thi npleted in full to avo pleting this applicat s shall be reported e or black ink only.	id delays in processir ion can be directed to I to 1/10 th of a metre	ng. Further i the Water	instructions and Well Manager	d explanations are availat	ele on the back of this form. -235-6203.
			ttrem	10,		
RR#/Street Number/Name GPS Reading NAD Zop 8 3 Log of Overburden and Be	8 4 23 94 edrock Materials (Northing 5017468 see instructions)	City/Fown/Vi Unit Make/M	iodel Mode	of Operation: Undiffere	ntiated Averaged
General Colour Most common	Material KGrey I	Other Materials	ne	Genera	I Description	Depth Metres From To O 5,49 5,49 18,29
						· · · · · · · · · · · · · · · · · · ·
Hole Diameter Depth Metres Diameter	Inside	Construction Reco	ord Depth	Metres	Pumping test method	Well Yield raw Down Recovery
From To Centimetres	diam Mate	Casing	From	То	Subrum Tim Pump intake set and Stat (metres) Stat Pumping rate (litres/min (
Water Record Water found at Metres Kind of Water at Metres Sulphur Gas Salp Minerais Other:	5.8 Plastic Galvanize	Fibreglass Concrete d	0	7,01	Duration of pumping 2 hrs + min Final water level end 3 of pumping metres Recommended pump 4	1.94 2 1.38 8,08 3 1.27 2.17 4 1.20
Gas Salty Minerals m Fresh Sulphur m Fresh Sulphur Gas Salty Minerals	Outside	Concrete			type. Shallow Abeep Recommended pump 5 depth. 5, ormetres Recommended pump 10 rate. (litres/mit) 15	
Other:	Glam Plastic	Concrete d No Casing or Scre	1 1		If flowing give fate - 20 (litres/min) 25 If pumping discontinued, give reason. 30 40 50	20 20 25 25 30 30 30 40
Chlorinated Yes No	Open hole		6.40	18.29	60	3 52 60
From Io	e (bentonite slumy, neat co	ment slum) etc Volum	andonment ne Placed metres)	Indicate north by	Location of W v show distances of well from r arrow.	
Cable Tool Rotary (Rotary (conventional) Rir perc Rotary (reverse) Boring	Water Use	Diamond] Digging] Other	CARL	TANSLE	ROAD
	rcial al (Final Status of Wel ell insufficient supply	Jnfinished Abando Dewatering	Other		/ner's information Date De	iverad CYY 04 24
Name of Well Contractor	tractor/Technician I Ritting er, city etc.)	Well Contractor's L	19	Data Source	19 2000	
Signature of Mechnician/Contractor X / Contractor 0506E (09/03)	DAN	Date Submitted yyyy	58 04127	ner's Copy		ıle est disponible en français

	Ainistry of he Environment	^{Nell 1} A 0434	umber below)	1536645 Regulation 903 Untari	Well R	
Instructions for Completin	a Form	A043	423		page _	of
 For use in the Province of All Sections must be com 	of Ontario only. This pleted in full to avoid pleting this applications shall be reported t	delays in processing. n can be directed to th to 1/10 th of a metre.	Further instructions and ne Water Well Manager	lease retain for future refere d explanations are available o nent Coordinator at 416-23 Ministry Use Only	n the back of 5-6203.	this form.
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Address of Went acation (County/ RR#/Street Number/Name	- Cor le	ton W	ship Content ty/pown/Village	ta but 61		
GPS Reading NAD Zon 813 12 Log of Overburden and Be	ese Ke <u>3 423210</u> drock Materials (se	5017454	it Meke/Model Mode	e of Operation: Undifferentiate		aged
General Colour Most common		Other Materials	Genera	al Description	Depth From	Metres To
\sim S	and a Cla	zy			0	4,88
Grey	linesta	rel			4.88	15.24
	×					
		· · · · ·		· · · · · · · · · · · · · · · · · · ·		
Hole Diameter		Construction Record	1	Test of We	ll Yield	
Depth Metres Diameter From To Centimetres	Inside diam Materia	Wall al thickness	Depth Metres		Down F ater Level Time	Recovery
0 15.24 15,23	centimetres	Casing	From To	Pump intake set op Static (metres)	Metres min	
	Steel F Plastic C Galvanized	ibreglass Concrete , 4 8	0 701	Pumping rate - 1 (litres/min)	86 1	1.84
at Metres Kind of Water	Steel	ibreglass	- 10	Final water level and 3	<u>77</u> 2 08 3	1,10
Gas Sal Minerals	Plastic C Galvanized			Recommended pump 4	214 4	1.55
Gas Suff Minerals	Steel F Plastic C Galvanized	ibreglass Concrete		Shallow Deep Recommended pump 5	Q18 5	1.505
Gas Salty Minerals	Outoido	Screen		Recommended pump 10 rate. (litres/mm) 15	234 10 234 15	1.41
After test of well yield, water was	diam Steel F Plastic C			If flowing give rate - 20 (litres/min) 25	236 20 238 25	1.36
Cleanencisedingeutree NOI	Galvalized	No Casing or Scree	n	If pumping discontin- ued, give reason. 30 40	39 30 2.41 40	1.34
	Spen hole		5.40 15.24	50 60	43 50 243 60	1.30
Plugging and Se Depth set at - Metres Material and typ	aling Record	pent slumu) etc Volume		Location of Well w show distances of well from road,	lot line, and b	
From To Machine of the open	Cenet S(urry Da	Indicate north b	87	97 1 27 16	T
				+ 160 Ree	*	
	lethod of Constructio		gr d	Ree	sek	ad
Cable Tool Rotary (Rotary (conventional) Air percentional Rotary (reverse) Boring	bussion		bigging other	# 160		
Commestic ⊡Industria ☐ Stock □Comme		ublic Supply C	Other			
Irrigation Municip	al Co Final Status of Well	ooling & air conditioning	Audit No. Z	4861/ 6	ed yoor	0726
Weter Supply Recharge we Observation well Abandoned, Test Hole Abandoned,	insufficient supply	nfinished Abandone ewatering eplacement well	ed, (Other) Was the well or package deliver	ed?	006-	0804
Well Com Name of Wall Contractor	tractor/Technician Int	formation Well Contractor's Lie	ence No. Data Source	Ministry Use Only Contractor	111	9
Business Address (street name, numb	NOND 0	Well Technician's Lic		0 7 2 0 0 Date of Insp Well Record	ection YYYY	MM DD
Name of Well Technician (last name, f	ers ke	Date Submitted	/##			
X KOncep 0506E (09/03)	Contractor's Cop	Ministry's Copy	Well Owner's Copy	Cette formule	est disponible	en français

	Ministry of the Environment	Well T A 0434	97	umber below)	1536723	Well R	Act
Instructions for Completin	ng Form	A0434	97	19 ^{- 1}			
 All Sections must be cor 	npleted in full to avoin pleting this applicati is shall be reported	d delays in processing. on can be directed to th	Further in	nstructions and	ease retain for future refe d explanations are available nent Coordinator at 416-2 Ministry Use Only	on the back of	this form.
Well Owner's Information	and Location of V	Vell Information	MUN		DN DN	LOT	
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RR#/Street Number/Name	Griets	· · · · · · · · · · · · · · · · · · ·	//Jown/Vil		Site/Compartment	/Block/Tract et	<u>C</u>
GPS Reading NAD Zor		Northing Un	t Make/M		of Operation: Undifferentia		aged
8⊤3 (it Log of Overburden and B	drock Materials (110	2010m	Differentiate		
General Colour Most common	material	Other Materials			I Description	Depth From	Metres
Gre	y line	store	nde	ers_		6.40	73,15
					·······		
K,							
Hole Diameter		Construction Record			Test of W	ell Yield	
Depth Metres Diameter From To Centimetres	Inside diam Mate	rial thickness	Depth	Metres			Recovery Water Level
0 73.15 15.07	centimetres	centimetres	From	То	Pump intake set at - Static	Metres min	Metres 236
	Steel	Casing Fibreglass		5.	(metres) Lever Pumping rate- (litres/min-	347 1	<i>3.</i> 17
Water Record	15 ⁵ Plastic Galvanize	-1.0	P_{r}	12 ³⁴	Duration of pumping 2	3.66 2	2.13
Water found at Matros Kind of Water	Steel Plastic	Fibreglass	<u>.</u>		Final water level end 3	3,70 3	
Gas Other:	Galvanize	d			Recommended pump 4	375 4	
Gas Salty Minerals	Steel Plastic				type. Shallow Deep Recommended pump 5	5	
Other:	Galvanize	d Screen			depth. A metres Recommended pump 10	3,80 10	
Gas Salty Minerals	diam 🖳 🖳	Fibreglass Slot No.			rate. (litres/min) 15 If flowing give rate - 20	3.80 15 5 4 20	
After test of well yield, water wae	Plastic Galvanize				(litres/min) 25 If pumping discontin- 30	85 25 3,85 30	· · · · · ·
Other, person		No Casing or Scree			ued, give reason. 40	3,85 40 3,86 50	
Chlorinated School No	Open hole		,73	73,15	60	3 86 60	
Plugging and Se Depth set at - Metres Material and tv	ealing Record	ment slumu) etc Volume I			Location of Well		uiding
1,73867 Nat	-Cenort S	(cubic m		Indicate north by	arrow.	\bigcirc	E
8,69 0 Bente	nite Slu	Yry' -36	8	¥.	1 CA		
				2		ikm	
	Method of Construct	lon		50			
Cable Tool Rotary	(air)		gging ther	26		Dein	2
Rotary (reverse) Boring		Driving			} Keis	Drive	-
Stock	ial 🗌 I	Public Supply	ther		5	æ	2
Irrigation Munici		Cooling & air conditioning		Audit No. Z	48666	Completed	0708
Water Supply Recharge w Observation well Abandoned		Jnfinished Abandone	d, (Other)	Was the well ov package delivered	vner's information Date Delived?	3006	19 B
Test Hole Abandoned	, poor quality	Replacement well			Ministry Use Only		
Name of Well Contractor	it is along	Well Contractor's Lice	nce No.	Data Source	Contractor		L A
Business Address (street name, num	CHMOND	ON KOAS	20	Date Received	YYYY MM DD Date of Ins		MM DD
Name of Weil Technician (last pame;		Well Technician's Lic	ence No.	Remarks	Well Reco	rd Number	
Signature of Technician Contractor	> 	Date Submitted	r27		Catto Farme de	oot diana-ihi-	on francais
0506E'(09/03)	Contractor's Co	opy' 🗥 Ministry's Copy		ner's Copy 📋	Cette formule	est disponible	en irançais

	Vinistry of the Environment	Well Tag Number (7)	;5265	mber below)	Regulation	Ne 903 Ontario Wate	ell Record
Instructions for Completir	a Form	Aos	536	5			page of
 For use in the Province All Sections must be con Questions regarding con 	of Ontario only. This npleted in full to avoi	document is a perr d delays in processi	manent lega ing. Further	I document. Pl	l explanations are	available on the b	
 All metre measurement Please print clearly in blu 	s shall be reported				· · · · · · · · · · · · · · · · · · ·	Use Only	
						•	
Address of Well Location (County,			ownship	Carlat		-ot O Conce	ession
RR#/Street Number/Name	Corter		City/Town/V	illage	D/ Site/Co	mpartment/Block/T	ragt Pod 4
GPS Reading NAD Zon	Easting	Northing	Unit Make/N		of Operation:	Undifferentiated	Averaged
8 3 2 Log of Overburden and Be		5017099	1/10	gellon	<u> </u>	Differentiated, specify	
General Colour Most common	· · · · · · · · · · · · · · · · · · ·	Other Materials		General	Description		pth Metres om To
Grey	Sand					Ő	om 10 884
Grey	Linest	re				8,8	473,15
		-					
Hole Diameter Depth Metres Diameter		Construction Rec	ord			Test of Well Yield	
From To Centimetres	Inside diam Mater	ial Wall	Depth	Metres	Pumping test met	Time Water Lave	Recovery
0 7315 1520	centimetres	centimetres	From	То		min Metres	min Metres
	Steel	Casing	1	1	(metree) 0 . 1		00:1
	Plastic		,48	10.67	(litresmit), Duration of pumpir		
Water Record Water found at Metres Kind of Water	Galvanized	i C	. 70	10.	hrs +	ng <u>26.09</u> min	2 15,55
m Fresh Sulphur		-			Final water level of pumping		3 14.60
Gas Minerals	Galvanized				Recommended pu	mp 4 8,14-	4 1372
Gas Salty Minerals	Steel Plastic	Fibreglass Concrete			type. Shallow	mp 5 2 94	5 3.00
Gas Salty Minerals	Galvanized]		depti Do, me	ires	
m Fresh Sulphur Gas Salty Minerals	Outside Outside	Screen			Recommended purate.	10 1211 15 12-30	10 0,39
Other:After test of well yield, water was	diam Steel	Fibreglass Slot No. Concrete			If flowing give rate	- 20 1592	20 7.36
Colparada section int free 05	Galvanized	I			(litres/min) If pumping discontir ued, give reason	25 17,18	25 6 4 3
Other BETED		No Casing or Scr			ueu, give reason	40 900	2 40 4-71
Chlorinated 🖓 🕫 🗌 No	Sopen hole		10.06	73,15		50 19.86	60 367
Plugging and Se	aling Record 🦷		bandonment			on of Well	
From Io	e (bentonite slurry, neat cer		ne Placed c metres)	In diagram below Indicate north by		ell from road, lot line,	and building.
10.06 7.01 Neast	Cerest S	lury ,	1816			Q	1
7.01 0 Bant	ontes (way a	245		1Km	71,05	1
				O			
	e ¹			2		N N	
Cable Tool Rotary (a		amond	Digging	0		in le	
Rotary (conventional) 🕅 Air perc	ussion 🗌 Je	etting	Digging Other	E E		106 fe	R
Rotary (reverse) Boring	Water Use	iving			6_1	FUL	
Stock	l D		Other		19		
Stock Commer Irrigation Municipa		ot used ooling & air conditioning		Audit No.	65135	Date Well Completed	
	Final Status of Well	-finished Aband		lleen	66160	Data Daliwand	7 07021

Date

Contractor

Date of Inspection

Well Record Number

Ministry Use Only

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s Licence No.

Abandoned, (Other)

ation Well Contractor's Lic

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Well Technician

Date Submitted

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Unfinished

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NON

Dewatering
Replacement well

Data Source

Date Received YYYY SEP 1 7 2007 Remarks

MM

Was the well owner's information package delivered?

chnician (last name, fir ture of Technician/Contractor Ş 0506E (08/2006)

Recharge well

Abandoned, insufficient supply Abandoned, poor quality

<u>12</u>

Well Contractor/Technician Information

-16

etc

stname)

Water Supply

Test Hole

14

'(

X

Observation well

of Well Contractor

F

O C

093680 Below) 7141759 Well Ministry of lecord Ontario the Environment Regulation 903 Ontario Water Resources Act 3680 mperial Measurements recorded in:
Metric Page of Well Owner's Information E-mail Address First Name Last Name / Organiz F 0 Address (Street Postal Cod Ma ber/Name) rovince ve Ð NOC 1 ib D Well Location Address of Well Location (Street Number/Name 4 0 Ø DA County/District/Mur inality Province Postal Code Ontario 6 0 Municipal Plan and Sublot Number Other 741 50 NAD 83 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/ft) Most Common Material General Colour Other Materials General Description From 46 V (10 Na 1 00 anore 500 Annular Space **Results of Well Yield Testing** After test of well y ype of Sealant Used (m³/R³) Depth Set at (m/ft) water was Draw Down Recovery (Material and Type) Time Water Level (min) (m/ft) Time Water Level nd free 7.8 (min) (m/ft) \rightarrow Ł 41 Static If pumping 1124" ed, give re Level 16.8 112'8" 82.6 1 Pump in ake set at (m 222'6" 2 16' 4 -0 3 688" Pumping rate (il in / GPM) Method of Construction Well Use 2 0 81 3" 4 34 Cable Tool Diamond Public Commercial Not used -Duration of pumpi Livestock Dewatering Rotary (Conventional) Jetting Municipal 5194 hrs + O min 50 5. Driving 2 Rotary (Reverse) Test Hole Monitoring al water level end of pumping (m/ft) Air percussion Digging Irrigation Cooling & Air Conditioning 18" 10 43 10 ing give rate (Vmin / GRM) Industrial Other, specify Other, specify 59 15 464 15 f flo Construction Record - Casing Status of Well 20 RI 4 Recommended pump depth (n/ft) Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Wall Thickness Inside Depth (m/ft) Water Supply 2584'5 Replacement Well (cm/in) 25 73'3' 40 From То (cm/in) Test Hole nded pump rate 18'4" e 4 30 30 91 Recharge Well +2' 52 -188 (Vmin/GPM) 10 Dewatering Well 73'5" 52' 40 13'6" 400 4 60 Observation and/or GEM Well production (Vmin 5 Monitoring Hole 50 053 50 8 2" Alteration fected? (Construction) 24 60 604 Abandoned, Insufficient Supply Yes 🗌 No Map of Well Location Construction Record - Screen Abandoned, Poor Please provide a map below following instructions on the back Outside Depth (m/ft) Water Quality Material Slot No. Diameter Galvanized, Steel) Abandoned, other, (cm/in) From To specify Other, specify Water Details Hole Diameter Depth (m/ft) Water found at Depth Kind of Water: Fresh XUntested Diameter From (cm/in) 48 (mt) Gas Other, specify То (3) Nater found at Depth Kind of Water: Fresh Ontested 160 6 (m(ft)) Gas Other, specify Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Well Contractor and Well Technician Information Business Name of Well Contractor Well Contractor's Licence No. ¥ Lock (((3 NG Municipality Comments: 1 Cetmon 1 8 Postal Code Busine Loffe Ministry Use Only 740 No, Name of nician (Last Name, First Name 08235 H PC ß 4 AL SER MI 10 Sol 2 6 \$100B 0201 -(No C **Ministry's Copy** @ Queen's Printer for Ontario, 2007

093598 7141771 Ministry of Well T Below) rd Ontario the Environment Regu Act 093598 Measurements recorded in: 🗌 Metric Imperial Page Well Owner's Information First Name Last Name / Organization Well Constructed lla Durrell ovince, Postal Corf totalings 00 by Well Owner hone No. (inc. area code) 965 Modile KOR all 144 ve Well Location Address of Well Location (Street Number/Name) Lot Concession oto 8 County/District/Municipa Re NE #9 ard er City/Town/Village Postal Code Province to Ontario 00 Municipal Plan and Sublot Numbe asting Other NAD 8 3 8422847 5017220 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (10th) General Colour Most Common Material Other Materials General Description From say (0' lars Drat A 19' mests 32. 30 6 Re Annular Space **Results of Well Yield Testing** er test of well vield, water was ype of Sealant Used Draw Down Depth Set at (n/ft) olume Placed Recovery (Material and Type) Time Water Level Time Water Level Othe (m/ft) PESTE (min) (m/ft) 96 (min) 01 un Statie 3' contin 92'6" If pumping 9174 1 1 891 Pump intake set at (n(//t) 3'8" 2 76'4" 2 80 3 '2" 371'6" ng rate (Vmin / GPM) 16 Method of Construction Well Use 8 U.S. 469'2" 19'4" Diamond 4 Cable Tool Public Commercial Not used Duration of pumping Rotary (Conventional) Jetting Comestic Municipal Dewatering hrs +O 55944 min 525'3" Rotary (Reverse) Driving Livestock Monitoring Test Hole Digging Irrigation Final water level end of pumping (m/ft) Boring Cooling & Air Conditioning 10 27 10 48' 6" Air percussion Industrial 48'4" If flowing give rate (I/min / GPM) Other, specify Other, specify 15 15 357 **Construction Record - Casing** Status of Well Water Supply Replace 2058'4 20 C 31 Recommended pump depth (6/11) Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Inside Wall Depth (m/ft) Diamete (cm/in) Thickness 5'6" Replacement Well 256 7'2" 25 From To 74) (cm/in) Test Hole commended pump rate ç stel 3070 191 Recharge Well 30 12'5 188 54 0 Dewatering Well 6 (1 405 2'5 40 34 nola Observation and/or 54 Nell production (I/min (GPM) 6 Monitoring Hole 212 Alteration (Construction) 50 3 50 9 nfected? C. 60 Abandoned, Insufficient Supply OYes 🗌 604 No Construction Record - Screen Map of Well Location Abandoned, Poor Outside Depth (m/ft) Water Quality Please provide a map below following instructions on the back Material (Plastic, Galvanized, Steel) Diameter (cm/in) Slot No Abandoned, other, From To specify Other, specify Water Details **Hole Diameter** Water found at Depth Kind of Water: Fresh Ontested Depth (m/ft) Diameter (cm/in) 7 (m(ft)) Gas Other, specify From To De ((Water found at Depth Nind St. Specify 1 320 6 Water found at Depth Kind of Water: Fresh Untested Zeis Drive (m/ft) Gas Other, specify Well Contractor and Well Technician Information Well Contractor's Licence No Number/Name) 1119 KD ING Municipality Comments 40 ICHMOND NOO # C es Postal Code Business E-mail Address Well owne Ministry Use Only ackage D information Audit No. 2 108268 echnician (Last Name, F 7009 (023 age URCE ered Date Work Con MAR 2 2 2010 Contract 009122 No 010000 Ministry's Copy

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Ontario Ministry of the Environment Measurements recorded in: X Metric Imperial



7146322 **Well Record**

Regulation 903 Ontario Water Resources Act of Page

Address of Well Location (Street Number/Name)				Township HUNTL	Lot 8	3 Concession Z				
County/District/M	funicipality OTT	1/A		City/Town/Village	P		Provin		Postal	Code IIN
UTM Coordinates	Zone Easting	Northing	7740	Municipal Plan and Subl	ot Number	TAK	Other		Nor	inq
NAD 8 3		s/Abandonment	Sealing Reg	Cord (see instructions on the		TTS	111111	10000		THEFT
General Colour	Most Commo			ther Materials		al Description	1		Dep From	th (<i>m/ft</i>) To
BROWN	SAND/4	AM	SILT.						0.00	622
CREY	SMYSAN).	21.1	6011 D	1-0-				ott	Gall
OLEY	TILL	1-	STUD	CRANCE BOX	WORS.			-	730	1.20
GKET	LINESIZA	UE	SHALL	5					FRIC	DEST
							SIT I			
-										
Depth Set at (n	n/ft)	Annular Space	the state of the s	Volume Placed	After test of well yield, v	vater was:		d Testin aw Down		ecovery
		(Material and Type		(m ³ /ft ³)	Clear and sand from Other, specify		Time (min)	Water Le (m/ft)	vel Time (min)	Water Level (m/ft)
Cato Th	t cement	gost.		Vite	If pumping discoglinued	d, give reason	Static	0.65	5	
		·			N/A.		1	1.CO	1	19.83
	_				Pump inteke set at (m	Pizo)	2	2.68	2	18,85
Mothod	of Construction		Well		Pumping rate (Vmin / C	SIPMI .	3	3.47	3	18.18
Cable Tool	Diamond	Public	Com	mercial 🗌 Not used	Duration of pumping	Spr)	4	415	4	17.38
Rotary (Conve		Domestic	Munie Test	Hole Monitoring	hrs + 0 m	int6hr	5	745	5	16,60
Boring	Digging	Irrigation	Cooli	ing & Air Conditioning	Final water level end of	f pamping (n)	10	8.14	10	13.76
Other, specify		Other, spe			If flowing give rate (I/n	nin / GPM)	15	943	15	10,50
	Construction Re	Wall	Depth (m/ft)	Water Supply	Recommended pump	depth (m/ft)	20	11.49	20	Bas
Diameter (Ga (cm/in) Col	alvanized, Fibreglass, ncrete, Plastic, Steel)	Thickness (cm/in) Fro	m To	Replacement Well Test Hole	Gim (Recommended pump	200')	25	1300	25	6.30
15.88 3	Kel A 569	0,48 +04	He 9.07	Recharge Well Dewatering Well	(Vmin / SPM)	Sam)	30	1,10	30	4.18
				Observation and/or Monitoring Hole	Well production (Vmin	/ (PM)	40	16TS	40	1000
				Alteration (Construction)	Disinfected?	-	50	1. a	50	1,20
			14	Abandoned, Insufficient Supply	Yes No	Map of V	60	NO	60	0114
Outside	Construction Re Material		Depth (m/lt)	Abandoned, Poor Water Quality	Please provide a map	the second s			e back.	
Diameter (cm/in) (Plas	stic, Galvanized, Steel)	Slot No. Fro	om To	Abandoned, other, specify						ľ
				Other, specify						í.
					8	_				
Water found at I	Water Det Depth Kind of Water	the second se		Hole Diameter	R	lī	1	.0	2	
	Gas Other, speceric Contract of Contract o		From	1 01 A B.S.	8		W	all'	1	1
(m/ft) [Gas Other, spe	cify	/	2000 mars			386	insley	*	-
	Gas Other, spe		ested			-		4		4
a na anna anna anna anna anna anna ann	Well Contracto	r and Well Tech	A REAL PROPERTY AND A REAL	and the second se	i I					
Business Name	of Well Contractor	UNG 1	vc 1	Well Contractor's Licence No.	0					
Business Addres	s (Street Number/Nat	ARCHA	R	Municipality	Comments:					
Province	Postal Cade	Business E-ma	il Address	5 ahad 1				-		
Buttelephone N	9. (inc, area code) Na	me of Well Technic	an (Last Nan	e, Eirst Name)	Well owner's Date P information package	ackage Delive	a	Min Audit No		
11360	42622	AND	PETE	R,	delivered Yes	/ork Complete	5	-	2 T U	3676
008	SG Signifue	UNOAR	Contractor	20/00503	No de	KA	D.	Rective	N 0 8	2010
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No. 18.13 18.13	Otoma Carletor	n Carp	Ontario Dizon
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Amulai Science Amulai Science Results of Well Yell Results of	Sand Cle	24 Grav	el <u>cizo</u> ;
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Act of Market General Study () () () () () () () () () (After test of well yield, water was: Draw Down Recovery
Mathed of Construction Public Construction Public Construction Calle Tool Darrent Construction Con			Other specify (min) (m/tt) (min) (m/tt)
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Construction Record - Casing Status of Well Junider Open Hole QR Material Wale Depth (m/t) Replacement Well Gravinuod, Physics, Steel Ticking From To Replacement Well Construction Record - Screen Alteration Alteration Repartment Well Repartment Well Datade Insufficient Supply Abardoned, Insufficient Supply Repartment Well Repartment Well Outside Construction Record - Screen Abardoned, Insufficient Supply Abardoned, Insufficient Supply Repartment Well Contractors on the back. Water found at Depth Kind of Water: Fresh Unitested Depth (m/t) Diameter Repartment Well Contractor and Well Technician Information Water found at Depth Kind of Water: Fresh Unitested Depth (m/t) Multicopartity Multicopartity Water found at Depth Kind of Water: Fresh Unitested Depth (m/t) Multicopartity Mult	Boring Digging Irrigation	Cooling & Air Conditioning	915"
Open Point Open Point Value Depth (VM) Promession			If flowing give rate (umin / GPM)
6'' - KS'' - G'	Diameter (Galvanized, Fibreglass, Thickness	To Replacement Well	
Construction Record - Screen Output (m/f) Outsider (cm/f) Construction Record - Screen Depth (m/f) Outsider (cm/f) Plastic saturatized. Steel Stot No. Depth (m/f) Water found at Depth Kind of Water: From To Water found at Depth Kind of Water: Fresh Ontested Water found at Depth Kind of Water: Fresh Ontested Water found at Depth Kind of Water: Fresh Ontested Water found at Depth Kind of Water: Fresh Ontested Water found at Depth Kind of Water: Fresh Ontested Water found at Depth Kind of Water: Fresh Ontested Water found at Depth Kind of Water: Fresh Ontested Water found at Depth Kind of Water: Fresh Ontested Water found at Depth Kind of Water: Fresh Water found at Depth Kind of Water: Water found at Depth Kind of Water: Fresh Water found at Depth Fresh Municipality Water found at Depth Kind of Water: Fresh Municipality Foodd <th>6" Steel .188" +2</th> <th>C C Recharge Well</th> <th>(1/mig (PM)) 2 30 71 3 30</th>	6" Steel .188" +2	C C Recharge Well	(1/mig (PM)) 2 30 71 3 30
Outside Diameter (cm/n) Construction Record - Screen Diameter (cm/n) Depth (m/t) (Abandoned, other, specify Stot No. Depth (m/t) From Depth (m/t) (Abandoned, other, specify Map of Weil Location Water found at Depth Stot No. From To Abandoned, other, specify No. Image of Weil Location Water found at Depth Kind of Water: Fresh (Unitested Other, specify Depth (m/t) (amin) Diameter (cm/n) IKM IKM Water found at Depth Kind of Water: Fresh (Unitested Other, specify Depth (m/t) Diameter from To Image of Weil Location Water found at Depth Kind of Water: Fresh (Unitested (mm)) Depth (m/t) Diameter from To Image of Weil Location Water found at Depth Other, specify Image of Water: Fresh (Unitested (mm)) Depth (m/t) Diameter Water found at Depth Kind of Water: Fresh (Unitested (Minicipality) Municipality Municipality Employed Found Business Namerol Weil Contractor Municipality Municipality Municipality Dete Package Delivered Ministry Use Only	6" Open 250 26'	Monitoring Hole	Well production ((min (GRM))
Material Material Outside Material Material Depth (nv/tl) Depth (nv/tl) Please provide a map below following instructions on the back. Please provide a map below following instructions on the back. Please provide a map below following instructions on the back. Water found at Depth Kind of Water: Fresh Hole Diameter Water found at Depth Kind of Water: Fresh Depth (m/tl) Diameter Water found at Depth Kind of Water: Fresh Dintested Depth (m/tl) Diameter Water found at Depth Kind of Water: Fresh Dintested Depth (m/tl) Diameter Water found at Depth Kind of Water: Fresh Dintested Depth (m/tl) Diameter Water found at Depth Kind of Water: Fresh Dintested Depth (m/tl) Diameter Business Name of Well Contractor Well Contractor's Licence No. Municipality Municipality Municipality Province Postal Code Business E-mail Address Municipality Municipality Date Package Delivered Ministry Use Only		(Construction)	
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Water found at Depth Kind of Water: Fresh		- 1 1 1 1 1 1	de l'
Well Contractor and Well Technician Information Business Name of Well Contractor Well Contractor's Licence No. ALLA Fock Alla Filler Business Address (Street Number/Name) Municipality Province Postal Code Business E-mail Address Well owner's Date Package Delivered Ministry Use Only		ed	0 #124 Reis
Business Name of Well Contractor, ALL KOCK DELLUNG DE		ian Information	El Road
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SVX KOADZO Well owner's Date Package Delivered Ministry Use Only	RR#1	KICHMOND	Comments:
The second state of the se	SAT KOADZO		information
Bus Telephone No. (inc. area code) Name of Well Technician (Last Name) Date Work Completed Z 108337	6138382170 125	ANDAN	defivered Date Work Completed
Well Technician's Licence No. Signature of Technician and/or Contractor Date Submitted 13058 100000000 201000000 No. 201000000 Received 0506E (12/2007) Ministry's Copy © Queen's Printer for Ontario, 2007	13058 Honge	20100621	

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Ministry of the Environment Measurements recorded in:	A 09263	3 T150117 Regulation	903 Ontario W Page	ater Reso	ecord
Address of Well Location (Street Number/Name) 155 REIS County/District/Municipality OTAWA CARELTON UTM Coordinates Zone Easting Northing	City/Town/Village		Province Ontario Other	Postal	Code 91 LO
Overburden and Bedrock Materials/Abandonment S General Colour Most Common Material BROWN SANO	7365 Sealing Record (see instructions on the Other Materials STONES CLAY GREY LIMESTONE LYRS GREY SAWO	General Description		Dept From 0, 141 135	th (m/11) To 142 135 280
Annular Space Depth Set at (m/ft) From To (Material and Type) O Z3 BENTONITE	od Volume Placed (m?/R?) SLURRY, 0256	After test of well yield, water was: Clear and sand free Other, specify		evel Time (min)	Recovery Water Level (m/ft)
Method of Construction Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging	Well Use Commercial Not used Municipal Dewatering Test Hole Monitoring Cooling & Air Conditioning	If pumping discontinued, give reason: Pump intake set at (<i>m/ft</i>) 200 Pumping rate (<i>l/min / GPM</i>) 5 Duration of pumping 4 hrs + 0 min Final water level end of pumping (<i>m/ft</i>)	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	25 1 0 2 5 3	8.25 6.3 5.6 5.2 4.9 4.2
Air percussion Industrial Other, specify Other, specify Inside Open Hole OR Material Diameter (Galvanized, Fibreglass, Concrete, Plastic, Steel) 6 OPEN HOLE 6 OPEN HOLE	Status of Well tepth (m/ft) Water Supply To Replacement Well Z Z3 B Z80 Construction Alteration (Construction)	If flowing give rate (I/min / GPM) Recommended pump depth (m/ft) Recommended pump rate (I/min / GPM) Well production (I/min / GPM) Disinfected? Yes No	15 9,0 20 9.3 25 9.4 30 9.7 40 9.5 50 0.0	15 20 5 25 5 30 7 40 5 50 5 60	3.8 3.5 3.35 3.1 2.75 2.65 2.55
Construction Record - Screen Outside Diameter (cm/in) Material (Plastic, Galvanized, Steel) Slot No.	Abandoned, Insufficient Supply Abandoned, Poor Water Quality Abandoned, other, specify Other, specify		Vell Location		1
Water Details Water found at Depth Kind of Water: Fresh Untest Imutal S (m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh Untest 268 (m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh Untest Water found at Depth Kind of Water: Fresh Untest (m/ft) Gas Other, specify Untest Water found at Depth Kind of Water: Fresh Untest (m/ft) Gas Other, specify Untest Well Contractor and Well Technit Business Name of Well Contractor DRILLI Business Address (Street Number/Name) DRILLI DRILLI Province Postal Code Business E-mail	sted 0 23 9 4 sted 23 280 6 ician Information LTD Well Contractor's Licence No. 4 8 7 9 Municipality BRAESIDE	Comments:		0	8
Bus, Telephone No. (inc. area code) Bus, Telephone No. (inc. area code) Name of Well Technician Well Technician's Licence No. Signature of Technician and/o TT5177 USY 0506E (2007/12) © Queen's Printer for Ontario, 2007		Well owner's information package delivered X Yes No No Date Package Deliver 201008 Date Work Completed 201008	12 Audit No	120	549 n 2010

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Ontario 7164962 Well Tag No Vell Record Ministry of A117443 the Environment Regulation 903 Ontario Water Resources Act Measurements recorded in: 📈 Metric Imperial Page of Well Owner's Information First Name Nonstruction MANAGEMENT LA Well Constructed by Well Owner Address (Street Number/N Municipality Province KALO (613) STAT BRIDE Well Location Address of Well Location (Str PROAD. Township Lot Concession 7. HUNTE City/Town/Village County/District/Municipa OTTAWA CARIETON. DALLO Province Ontario UTM Coordinates 2 Municipal Plan and Sublot Number 279 3016886 Other NAD 83 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) General Colour Depth (m/ft) Most Common Material Other Materials General Description FRAK Jans 20 TIL R Sont BOULDERS SHARE LINESTRA KP Annular Space **Results of Well Yield Testing** Depth Set at (m/ft) Type of Sealant Used Volume Placed (m³/ft³) After test of well yield, water was: Draw Down Recovery (Material and Type) Time Water Level X Clear and sand free Time Water Level Other, specify (min) (m/ft) (min) (m/ft) 0.16 Static 1.76 If pumping discontinued, give reason Level 1 1 oump 2 2 6 m(100' 94 3 3 Method of Construction Well Use Public Domestic BI 4 4 Cable Tool Diamond X Commercial Not used Rotary (Conventional) Jetting Municipal Dewatering 5 Driving 5 Livestock Rotary (Reverse) Test Hole Monitoring Boring Digging Cooling & Air Conditioning end of pumping (m/ft) 10 9.68 10.0 Air percussion Other, specify Other, specify 10,71 15 15 4 n / GPM) **Construction Record - Casing** Status of Well 20 20 Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Inside Wall Depth (m/ft) Water Supply Replacement Well (m/ft) Diamete (cm/in) Thickne 25 25 From То (10) (cm/in) Test Hole Stel ASE9. 0.48+.91 KEB Recharge Well 30 2.07 30 376 6.H Om /10 Dewatering Well 40 40,3.6 Observation and/or Monitoring Hole 50 3. to na 10 50 Alteration (Construction) 60 60 Jol Abandoned, Insufficient Supply Yes Yes No Construction Record - Screen NIA Map of Well Location Abandoned, Poor Outside Diameter Please provide a map below following instructions on the back Material (Plastic, Galvanized, Steel) Water Quality Dept (m/ft) Slot No. Abandoned, other, (cm/in) From To specify Other, specify Hole Diameter Water Details Water found at Depth Kind of Water: Fresh Untested Depth (m/ft) Diamete (m/ft) Gas Other, specify 15,24 6.4 17.6 ound at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh Untested Caronnal (m/ft) Gas Other, specify Well Contractor and Well Technician Informatio Business Name of Mer Canter BRILLING INC. 4875 19, 157 PHUE ARCHES DR. PAKENAM ents Com Stand antive believer. Well owner information Ministry Use Only First Name) STURY Audit No. package z 1 32972 delivered Yes JUL C 8 2011 No 1.6000 Ministry's Copy

	ntario	Ministry the Env	/ of ironmer	nt	Well Ta	ag N	o. (Place Sticker and A102353	d/or Print Below) A1023	7166847				ord s Act
Measureme	ents record	led in: X	etric [Imperial				A1023	03		Page_		of
Well Owr First Name			ist Name	/ Organizati	on			E-mail Addres	is			Well C	Constructed
		h Munches (Marson		ed Const		-	itd.	Province	Postal Code	Т	elephone N		area code)
		t Number/Nam ield Road				1	ittsville	Ontario			13 836		
Well Loca		(Charles Marine	here (h)			Tour	nship		Lot	0	Concession		1446, 1912
		on (Street Num Industria				100.20	est Carleton	- Huntley	8		2		
	trict/Municip Carlet						Town/Village			Onta		Postal	Code
UTM Coordi	linates Zone	Easting	1997	Northing			icipal Plan and Sublo	t Number		Other			
	8 3 1 8 en and Be			donment S		cord	(see instructions on the	back of this form)	111.1111.111	11111	1999.15		
General Co		Most Comm					Materials		eneral Description	1		Dep From	th (<i>m/ft</i>) To
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Grey		Till										3.65	7.31
Grey		Limesto	one		Dark	Lay	vers	M	ledium			7.31	106.06
-													
			A.201	lar Space					Results of W	ell Viel	d Testing		
	et at (m/ft)		Type of a	Sealant Used	d		Volume Placed	After test of well y	ield, water was:	Dr	aw Down		ecovery
From 10.36	то 0	Croutor	2.23	and Type)	C1		(m³/ft³) .526m ³	Clear and sa		(min)	Water Leve (m/lt)	(<i>min</i>)	Water Level (m/ft)
10.50	0	GIULLEC	i ben	LOITLE	Stuffy		• JZ0III	If pumping discon	tinued, give reason	Static	1.31		
										1	2.66	, 1	11.21
				1				Pump intake set 91	.43	2	3.52	2	10.10
Meth	hod of Co	nstruction			Well	Use		Pumping rate (Vn 27		3	4.29	3	9.14
Cable To	ool (Conventiona	Diamond	A REAL PROPERTY AND A REAL	Public Domestic	X Comr		al Not used	Duration of pump		4	4.85		8.24
Rotary (I		Driving	Ê	Livestock Irrigation	Test	Hole	Monitoring Air Conditioning	_6hrs +2	1_min and of pumping (m/i	5	5.28		7.40
X Air percu		C 0.99-9	X	Industrial Other, specif			an o'o'nantoning	12	.76	10	7.02		4.48
		nstruction R					Status of Well	If flowing give rat	e (l/min / GPM)	20	8.20	00	3,20
Inside Diameter	(Galvaniz)	e OR Material ed, Fibreglass,	Wall Thicknes	22	epth (<i>m/ft</i>)		Water Supply Replacement Well		.85	25	9.07		2.68
(cm/in)		Plastic, Steel)	(cmvin)	1		-	Test Hole Recharge Well	Recommended p		30	9.70	, 	2.51
15.86	St	eel	.48	+.45	5 10.3	0	Dewatering Well		.3	40	10.1	,	2.00
							Observation and/or Monitoring Hole	Well production	(I/min / GPM)	50	11.4	-	1.72
	-						(Construction)	Disinfected?	,	60	11.74		1.72
	С	onstruction R	ecord - S	creen		-	Insufficient Supply Abandoned, Poor		Map of V	Vell Loo			
Outside Diameter		laterial alvanized, Steel)	Slot No	De From	epth (<i>m/ft</i>)		Water Quality Abandoned, other,	Please provide a	map below followin		a start to be		
(cm/in)				Tion	10		specify	KA	1		DRIVE		
1						-	Other, specify	1.000	i	0-	1.855	mt	
		Water De	ails			Hol	e Diameter		1	· NI	BWILLAN		0
		Kind of Wate		sh X Untest	ted D From	Depth ((m/ft) Diameter To (cm/in)		1			8	0
		Kind of Wate		sh Untest	ted 0		10.36 15.86		1			1	o'
		Other, species Kind of Wate		sh 🗍 Untest	10.3	86 1	06.06 15.23		1			- 15/	
		Other, spe	State of the second		_				1			X	
Business N		ll Contractor	or and W	ell Techni		_	n Contractor's Licence No.					1	
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Business A Box 4		eet Number/Na	ime)			12 C C C C C	cipality ittsville	Comments:					
Province Ontar:	and the second se	Postal Code		ffico				Well owner's D	ate Package Delive	red	Mini	stry He	e Only
Bus.Teleph	none No. (inc.	area code) Na	me of W	office &	n (Last Nam			information package		1	Audit No.		
A REAL PROPERTY AND A REAL PROPERTY AND A	36 1766 ician's Licence	No. Signatuyé		er, Ste	*	Date	Submitted	delivered D	ate Work Complete	d			704
0 0	9	7	In	m.		20	1110505	□ No 2	01105	04	Received	16 0 5	2011
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_7181767 Well Tag No. " ...'ell Record A117486 Ministry of Ontario the Environment Regulation 903 Ontario Water Resources Act Page of 🔲 Imperial Measurements recorded in: K Metric Well Owner's Information Last Name Dog Bar CNTACIO IM First Name E-mail Address Well Constructed by Well Owner Mailing-Address Province area code (inc, REEME DIE Well Location Concession -7 Address of Well Location (Street Number(Name) "HUNTLEY WEST CARLED County/District/Municipality Province Village KUA ILO Ontario UTM Coordinates | Zo Municipal Plan and Sublot Number RETS SLIDIVISION 21 FAD +321 NAD 8 3 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/ft) General Colour Most Common Material Other Materials **General Description** From SANDY CHA RONSA an CHI-SAM. Der 7711 SøtALE 5123 **Results of Well Yield Testing** Annular Space Depth Set at (m/ft) Type of Sealant Used Volume Placed After test of well yield, water was: Draw Down Recovery Clear and sand free (Material and Type) (m3/ft3) Time Water Level Time Water Level (min) Other, specify (m/ft) (m/it) (min) If pumping discontinued, give reason: 83 Static Level 1 1 Pump intake set at m/ft) 2 2 'AO' 3 3 Method of Construction Well Use Commercial Municipe (m) DIAM 4 4 Cable Tool Rotary (Conventional) Diamond Public Not used uration of pumping Jetting Domestic Dewatering \boldsymbol{C} 5 5 min Rotary (Reverse) Driving Livestock Test Hole Monitoring et pumping (m/ti) Final y Boring Digging 🗌 Irrigation Cooling & Air Conditioning level enc 10 10 Industrial 65/m Other, specify Other, specify 15 15 give N/R **Construction Record - Casing** Status of Well 20 20 Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Wall Thicknes (cm/in) Depth (m/ft) Water Supply Inside nded pu (m/ft Diamete (cm/in) Replacement Well to 2m 25 25 То From Test Hole 0.46 30 301 A 589 30/ Recharge Well BM Dewatering Well 40 40 Observation and/or Monitoring Hole 50 50 Alteration ed? (Construction) 60/ 60 Abandoned, Insufficient Supply 🖌 Yes Map of Well Location Construction Record - Screen Abandoned, Poor Water Quality ase provide a map below following instructions on the back. Outside Diameter Depth (m/ft) Material (Plastic, Galvanized, Steel) Slot No Abandoned, other, From (cm/in) То specify KEBRI 7 Other, specify Hole Diameter Water Details Depth (m/ft) Water found at Depth Kind of Water: Fresh Untested Diameter (cm/in) AV T (m/ft) Gas 3B D.C found at Depth Kind of Water: Fresh Unite (m/ft) Gas Children (Materity) 10° Л Ĭ(6 found at Depth Kind of Water: resh Unteste (m/ft) Gas Other, specify Well Contractor and Well Technician Information WILLING IN pents PREACHES Well owner's information package delivered Ministry Use Only Dat Audit No z149063 🗶 Yes MAY 2 9 2012 🗋 No

C Ontario the Environment	II Tag No. (Place Sticker ar Tag#: A12		ion 903 Ontario Water Resources Act
Measurements recorded in: Metric Imperial			Page of
Well Owner's Information First Mame Last Name / Organization		E-mail Address	
CRAWF INVESTMENTS			Well Constructed by Well Owner
Mailing Address (Street Number/Name)	Municipality	Province Postal Co	
3038 LARP RD	CARP	ONT HOB	160 613 83 93232
Well Location			
Address of Well Location (Street Number/Name)	Township	Lot 8	Concession
2710 CARP RO	MUNTLEY	0	
County/District/Municipality	City/Town/Village		Province Postal Code Ontario
UTM Coordinates Zong, Easting Northing	Municipal Plan and Sublo	ot Number	
NAD 8 3 18 / 23 0 3 0 5 0 1 68 3			Building D.
Overburden and Bedrock Materials/Abandonment Sealing		back of this form)	IF.
General Colour Most Common Material	Other Materials	General Descripti	ion Depth (<i>p</i> //t) From To
BROWN SAND		PACKER	
	CONCE O	in the second	
	JONES	HARDPA	
GREY LIMESTONE		BROKEN	2027
Annular Space		Results of ¹	Well Yield Testing
Depth Set at (<i>m/ft</i>) Type of Sealant Used	Volume Placed	After test of well yield, water was:	Draw Down Recovery
From To (Material and Type)	(pa*/ft ³)	Clear and sand free	Time Water Level Time Water Level (min) (m/ft) (min) (m/ft)
0 20 GROWT TYPE 10	blags	Other, specify	Static with 1/1 (2)
	Bolls.	If pumping discontinued, give reaso	Level
		ST TANK OF THE OWNER	1 14.7 1 10.2
		Pump intake set at (m/ft)	2148261
		22	3149351
Method of Construction We	II Use	Pumping rate (I/min / GPM)	3 199 3 5
	ommercial 🗌 Not used	Duration of pumping	4 150 4 5
	unicipal Dewatering	hrs + min	5 149 5
	est Hole Monitoring Monitoring Monitoring	Final water level end of pumping (m	10 14 9 10
Air percussion		149	10 17 7 10
Other, specify Other, specify		If flowing give rate (I/min / GPM)	15 11 15
Construction Record - Casing	Status of Well		20 20
Inside Open Hole OR Material Wall Depth (<i>m/ft</i>) Diameter (Galvanized, Fibreglass, Thickness		Recommended pump depth (m/ft,	25 11 25
(cm/in) Concrete, Plastic, Steel) (cm/in) From T	D Test Hole	Recommended pump rate	
64 STEEL 188 0 2	4 Recharge Well	(I/min-/ GPM)	30 1 30
	Dewatering Well	10	40 40
	Observation and/or Monitoring Hole	Well production (I/min / GPM)	50 4 50
	Alteration (Construction)	Disinfected?	
	Abandoned,	Ves No	60 149 60
Construction Record - Screen	Insufficient Supply	Map of	Well Location
Outside Material Depth (m/ft)		Please provide a map below followi	ng instructions on the back.
Diameter in a track in Slot No.	o Abandoned, other, specify		
	0pcony		
	Other, specify	1 17	
Water Details	Hole Diameter	A de la de l	
Water found at Depth Kind of Water: Fresh & Untested	Depth (<i>m/ft</i>) Diameter om To (<i>cm/in</i>)	00	4 - Marine 1999 - Marine 199
(m/ft) Gas Other, specify	$p p \rightarrow -1 i i$		
	2/03	A.	
(<i>m/ft</i>) Gas Other, specify Water found at Depth Kind of Water: Fresh Untested		406	8
(m/ft) Gas Other, specify			- ()
Well Contractor and Well Technician Info	ormation		
Business Name of Well Contractor	Well Contractor's Licence No.		
PLUMBING UILLAGE	6574		
Business Address (Street Number/Name)	Municipality THUNAT	Comments: CAR	r KUAIJ
BOX 329 CARP	CARLEJON		
Province Postal Code Business E-mail Address		Well owner's Date Package Deliv	vered Ministry Use Only
Bus, Telephone No. (inc. area code) Name of Well Technician (Last N	ame First Name)	information	Audit No.
Bus, Telephone No. (inc. area code) Name of Well Technician (Last N	DUSE	delivered	$\frac{1}{2} \sum_{i=1}^{n} \frac{1}{2} \sum_{i=1}^{n} \frac{1}$
Well Technician's Licence No. Signature of Technician and/or Contract	or Date Submitted	Date Work Complet	UIN (), 2012
T310.1.1	20120635	□ No 201200	607 JUN 1 4 2012
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AD.	Ministry of		Well Tag No. (Place Sticker and/or Print B	Well Record
OP Ontario	the Environn	nent	A102665	Regulation 903 Ontario Water Resources Act
Measurements recorded in	n: 🗌 Metric	Imperial	A102003	Page of

Address of Well Location (Street Number/Name)	Township	Y B	Concession
County/District/Municipality	City/Town/Village	1 1	Province Postal Code Ontario
UTM Coordinates Zone, Easting	Municipal Plan and Suble		Other
NAD 8 3 18423232501	7188 4 M745	PTER RP4R7	521 PART 71-72
Overburden and Bedrock Materials/Abandonmen General Colour Most Common Material	Other Materials	General Description	کار (۲۰۱۴) Depth From To
BROWN SAND		2005E	0 10
GREY HARDPHM	STONES	r	10 14
GRET LIMESJONE			19 60
		· · · · · · · · · · · · · · · · · · ·	
Annular Space		Results of W	ell Yield Testing
Depth Set at (#/ft) Type of Sealant U From To (Material and Type)		Clear and sand free	Time Water Level Time Water Level (min) (11/11) (min) (11/11)
O 20 GROUT T	1PE#10 10 legs Selly	Other, specify If pumping discontinued, give reason:	
			1 11.4 1 15.5
		Pump intake set at (m/ft)	2 13 2 13.3
		Pumping rate (1111 / GPM)	3 14 3 12.3
Method of Construction	Well Use Commercial Not used	Duration of pumping	4 14.6 4 11.7
Rotary (Conventional) Jetting Domestic Rotary (Reverse) Driving Livestock	Municipal Dewatering Test Hole Monitoring	hrs + min	5 15.6 5 11.4
Boring Digging Irrigation	Cooling & Air Conditioning	Final water level end of pumping (m/h	10 18.2 10 10.4
Air percussion		If flowing give rate (IMAN / GPM)	15 19.2 15 9.7
Construction Record - Casing	Depth (m//ft) Uvater Supply	Recommended pump depth (m/ft)	20 19.9 20 9.4
Diameter (Calvanized Eibrealass Thickness	om To Replacement Well	Recommended pump rate	25 20,2 25 9.1
102 STEEL 188 C	9 10 Recharge Well □ Dewatering Well	(Fimin / GPM)	30 20.4 30 9.1
	Observation and/or Monitoring Hole	Well production (###m / GPM)	40 20.5 40 9. 50 106 50 3 .7
	Alteration (Construction)	Disinfected?	
	Abandoned, Insufficient Supply	Yes No	60 20.6 60 8.6 Nell Location
Outside Metarial	Depth (<i>m</i> /ft) Abandoned, Poor Water Quality	Please provide a map below followin	g instructions on the back.
Diameter	om To Abandoned, other, specify		T PELS ROAD
	Other, specify		N
		120	
Water Details Water found at Depth Kind of Water: Fresh 🗹 On	Hole Diameter tested Depth (m/ft) Diameter		WELL
55 (A/ft) Gas Other, specify	From To		1
Water found at Depth Kind of Water: Fresh Un (@h/ft) Gas Other, specify			¢ (
Water found at Depth Kind of Water: Fresh Un	tested 20 60 6"		
(#//ft) Gas Other, specify Well Contractor and Well Tecl	nician Information		د د سر مر ر ر سوم
Business Name of Well Contractor	Well Contractor's Licence No 6 5 7 4		
PLUMBING VILLAGE Business Address (Street Number/Name)		Comments	
BOX 429 CARP ONT	Address		
ONT KOHIKO		Well owner's Date Package Delive	Audit No.
Bus.Telephone No. (inc. area code) Name of Well Techr	ician (Last Name, First Name)		2115821
Well Technician's Licence No. Signature of Technician an	d/or Contractor Date Submitted		- 0 1 0 M
(1311 m) 1. Ma	Ministry's Cop	sure (balance and the second se	

7214932

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			Popular +
Well ID		Environme	ent map
Well ID Number: 7214932		Technical	documentation: Metadata
Well Audit Number: Z180930		record	
Well Tag Number: A157570			

Well Location

Address of Well Location	2770 CARP RD
Township	HUNTLEY TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	Ottawa
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 423066.00 Northing: 5017685.00
Municipal Plan and Sublot Number	
Other	

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

Overburden and Bedrock Materials Interval

General	Most Common	Other	General	Depth	Depth
Colour	Material	Materials	Description	From	To
BRWN	FILL	GRVL	HARD	0 ft	

Annular Space/Abandonment Sealing Record

Depth	Depth	Type of Sealant Used	Volume
From	To	(Material and Type)	Placed
0 ft	10 ft	BENTONITE	

Method of Construction & Well Use

Method of Construction	Well Use
Other Method	Monitoring
HSA	

Status of Well

Observation Wells

2 Ontario

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Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
2 inch	PLASTIC	0 ft	13 ft

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
2 inch	PLASTIC	13 ft	23 ft

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7238

Results of Well Yield Testing

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

Search

Draw Down & Recovery

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

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter
0 ft	23 ft	8 inch

Audit Number: Z180930

Date Well Completed: November 20, 2013

Date Well Record Received by MOE: January 17, 2014

POn	ntario	Ministry of		Well Ta	-		d/or Print Below)	723357				ecord
Veasuremen	nts recorded ir	the Environme	nt Imperial		A123	489 T	ag#: A123	3 489 tion	n 903 O	ntario Wat Page_		
Well Owne	er's Informa	tion	•							9		
First Name	nvestmen		e / Organizat	on			E-mail Address					Constructe
Aailing Addre	ess (Street Nur	nber/Name)			Municipality Carp		Province Ontario	Postal Code				,
<u>3038_Ca</u> Vell Locati	rp Road ion						Uncario	KUA II	<u>10</u>	613 223	5 115	<u> </u>
	/ell Location (S arp Road	treet Number/Nan	ne)		Township West Ca	rleton	- Huntley	Lot	(Concession		
ounty/Distrie	ct/Municipality				City/Town/Villa		nuncicy		Provin		Postal	Code
Ottawa Carleton JTM Coordinates Zone Easting Northing			Carp Municipal Plai	n and Sublot	Number		Onta Other	irio				
NAD 8		423099	50170									*******
Verburden General Colc	······	k Materials/Aban			ord <i>(see instru</i> her Materials	ctions on the b		ral Description				h (<i>m/ft</i>)
Brown	•	Soil		Sto	nes		Wet				From 0	то 1.2
Grey		Ti11					Pacl	ked			1.21	
Grey		Gravel					Pacl	ced			6.09	7.6
Grey		Limestone		Dar	k Layers	1	Meda	ium			7.61	68.5
												-
			lar Space					Results of We				
Depth Set a From	at (<i>m/tt)</i> To		Sealant Used and Type)		Volume (m³/	ft ³)	After test of well yield,		Time	w Down Water Level	Time	
9.44	0 Gr	routed Ceme	nt & Be	ntonite	.43m ³		Other, specify	ed. give reason:	<i>(min)</i> Static	(m/ft)	(min)	(m/ft)
									Level	3.45	1	4.12
							Pump intake set at (m/ft)	2	3.55		4.01
							30.47 Pumping rate (I/min /	GPM)	3	3.61		3.97
Metho Cable Tool	d of Constru		Public	Well U		Not used	54.6		4	3.64		3.90
Rotary (Cor Rotary (Rev	nventional)	Jetting	Domestic Livestock	Municip	bal 🗌 I	Dewatering Monitoring	Duration of pumping 1 hrs +	nin	5	3.68		3.87
Boring		Digging	Irrigation Industrial	the second s	& Air Conditio		Final water level end of	of pumping (m/ft)	10	3.82	10	3.73
X Air percuss		and a second state of the	Industrial Other, specify	/			4.45 If flowing give rate (//	min / GPM)	15	3.90	15	3.70
Inside	Constru Open Hole OR N	Iction Record - C		oth (<i>m/ft</i>)	Status		Recommended pum	n denth (m/ft)	20	3.94	20	3.64
Diameter	(Galvanized, Fib Concrete, Plastic	reglass, Thicknes	is .	To	Replace	ment Well	15.23		25	3.99	25	3.61
15.86	Steel	.48	+.45	9.44	E Test Hol	e Well	Recommended pum (I/min / GPM)	p rate	30	4.05	30	3.58
					Dewater	tion and/or	45.5 Well production (I/mi	n / GPM)	40	4.00	40	3.54
					Monitorir	n -	Disinfected?		50	4.53	50	3.51
					(Constru	ned,	Yes No		60	4.45	60	3.49
	Constr	uction Record - S	T		Abandor	· · · · · · · · · · · · · · · · · · ·	Map of Well Location Please provide a map below following instructions on the				e back	
Outside Diameter (cm/in)	Material Plastic, Galvanize			oth (<i>m/ft</i>) To	Water Q	adding		below lonowing	100000			
							N.				- 1	
					Other, s	oecify		ļμ		1		
		ater Details			Hole Diamet				#271	0		
	at Depth Kind t)	of Water: Fres	h XUnteste	ed Der From	oth (<i>m/ft</i>) To	Diameter (cm/in)		**			1	
Vater found	at Depth Kind	of Water: Fres	h XUnteste	ed 0	9.44	15.86		i)			I	
	t) Gas C at Depth Kind	Other, <i>specify</i>	h Unteste	9.44	68.57	15.23		ļĹ		\Box	*	
(m/ft	<i>t)</i>		*****					996 7			l	
Business Nan	Well Con me of Well Con	ontractor and W tractor	ell Technic	and the second se	ation /ell Contractor's	Licence No.	en e	EP RA	0.6	#5		
-	Water S dress (Street Nu	upply Ltd.			1 5 unicipality	5 8	Comments:					
Box 490	(andenname)			Stittsvi	11	Communità.					
rovince Ontario	Postal		ess E-mail A		lwater.c		Well owner's Date	Package Delivere	ed 1	Minis	try Use	Only
Bus.Telephone	e No. (inc. area d	code) Name of We	ell Techniciar	Last Name			information package	· 1. 1	1 8	Audit No.Z		856
	3 6 1 7	6 6 Mill Signatu/e of Techn	Ler, Ste ician and or		ate Submitted		delivered Date	Work Completed			waaa 🦋	
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7247944



Well Location

Address of Well Location	2826 CARP ROAD
Township	HUNTLEY TOWNSHIP
Lot	009
Concession	CON 02
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	CARP
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 422710.00 Northing: 5017334.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
	CLAY	STNS		0 ft	13 ft
GREY	SNDS				200 ft
	SNDS			200 ft	211 ft

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant UsedVolume(Material and Type)Placed	
0 ft	44 ft	2 BAGS CEMENT	
		HEAVY DRIVE SHOE	
		5 BAGS QUICK QROUT	

Method of Construction & Well Use

Method of Construction	Well Use
Rotary (Convent.)	Test Hole



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Status of Well

Test Hole

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
6 inch	STEEL	0 ft	44 ft

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To	

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 2558

Results of Well Yield Testing

After test of well yield, water was	CLOUDY
If pumping discontinued, give reason	
Pump intake set at	155 ft
Pumping Rate	5 GPM
Duration of Pumping	1 h:0 m
Final water level	16.45 ft
If flowing give rate	
Recommended pump depth	175 ft
Recommended pump rate	3 GPM
Well Production	
Disinfected?	Y



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Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1	18.1 ft	1	19.7 ft
2	18.3 ft	2	19.2 ft
3	18.6 ft	3	18.9 ft
4	18.85 ft	4	18.7 ft
5	19.05 ft	5	18.5 ft
10	19.65 ft	10	17.9 ft
15	20.1 ft	15	17.6 ft
20	20.4 ft	20	17.25 ft
25	20.55 ft	25	17.1 ft
30	20.7 ft	30	17 ft
40	21 ft	40	16.85 ft
45		45	
50	21.15 ft	50	16.75 ft
60	21.25 ft	60	16.76 ft

Water Details

Water Found at Depth	Kind
50 ft	Untested
155 ft	Untested

Hole Diameter

Depth From	Depth To	Diameter
0 ft	44 ft	25.4 inch

Audit Number: Z199203

Date Well Completed: August 06, 2015

Date Well Record Received by MOE: September 10, 2015



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Well ID		Environmer	nt map
Well ID Number: 7247945		Technical d	ocumentation: Metadata
Well Audit Number: Z199204		record	
Well Tag Number: A162801			
This table contains information	n from the original well record and any subsequent updates.		

Well Location

Address of Well Location	2826 CARP ROAD
Township	HUNTLEY TOWNSHIP
Lot	009
Concession	CON 02
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	CARP
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 422990.00 Northing: 5017873.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
	CLAY	STNS		0 ft	16 ft
GREY	SNDS			16 ft	200 ft
	SNDS			200 ft	

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 ft	44 ft	2 BAGS CEMENT	
		4 BAGS HOLE PLUG	
		HEAVY DRIVE SHOE	
		5 BAGS GROUT	

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	Method of Construc	tion & Well Use		
	Method of Construction	Well Use		
	Rotary (Convent.)	Test Hole		

Status of Well

Test Hole

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
6 inch	STEEL	0 ft	44 ft

Construction Record - Screen

Outside	Material	Depth	Depth
Diameter		From	To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 2558

Results of Well Yield Testing

After test of well yield, water was	CLOUDY
If pumping discontinued, give reason	
Pump intake set at	105 ft
Pumping Rate	5 GPM
Duration of Pumping	1 h:0 m
Final water level	13.95 ft
If flowing give rate	
Recommended pump depth	175 ft
Recommended pump rate	3 GPM
Well Production	
Disinfected?	Y

D Ontario

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Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1	16.4 ft	1	14.6 ft
2	16.7 ft	2	14.2 ft
3	16.85 ft	3	14.1 ft
4	17 ft	4	14.05 ft
5	17.25 ft	5	14.02 ft
10	17.45 ft	10	13.98 ft
15	17.5 ft	15	13.97 ft
20	17.53 ft	20	13.96 ft
25	17.53 ft	25	13.95 ft
30	17.53 ft	30	13.95 ft
40	17.53 ft	40	13.95 ft
45		45	
50	17.53 ft	50	13.95 ft
60	17.53 ft	60	13.95 ft

Water Details

Water Found at Depth	Kind
125 ft	Untested

Hole Diameter

Depth From	Depth To	Diameter
0 ft	44 ft	25.4 inch

Audit Number: Z199204

Date Well Completed: August 06, 2015

Date Well Record Received by MOE: September 10, 2015



Appendix 2

• Laboratory Certificates of Analysis - Groundwater



Environment Testing

Paterson Group	154 Colonnade Rd South	Nepean, ON	K2E 7T7	Mr. Russell Chown	9511	Paterson Group
Client:				Attention:	PO#:	Invoice to:

Page 1 of 2

1700977 2017-01-20 2017-01-22 PH3158

Report Number: Date Submitted: Date Reported: 61826

Project: COC #:

Dear Russell Chown:

Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).

Report Comments:



APPROVAL:

Team Leader, Microbiology

All analysis is completed in Ottawa, Ontario (unless otherwise indicated).

Eurofins Ottawa is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on our CALA scope of accreditation. It can be found at http://www.cala.ca/scopes/2602.pdf.

Eurofins (Ottawa) is certified and accredited for specific parameters by OMAFRA, Ontario Ministry of Agriculture, Food and Rural Affairs (for farm soils). Licensed by Ontario MOE for specific tests in drinking water.

Eurofins (Mississauga) is accredited for specific parameters by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025

Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline values listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official provincial or federal guideline as required.



2017-01-20 2017-01-22

Report Number: Date Submitted: Date Reported:

PH3158 61826

Project: COC #:

1700977

Environment Testing

Paterson Group	154 Colonnade Rd South	Nepean, ON	K2E 7T7	Mr. Russell Chown	9511	Paterson Group
Client:				Attention:	:#O4	Invoice to:

1278247 Water 2017-01-19 TW1-WS2		-	0	0	0	0
1278246 Water 2017-01-19 TW1-WS1		0	0	0	0	0
Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	Guideline		MAC 0			MAC 0
	Units	ct/1mL	ct/100mL	ct/100mL	ct/100mL	ct/100mL
	MRL	0	0	0	0	0
	Analyte	Heterotrophic Plate Count	Escherichia Coli	Faecal Coliforms	Faecal Streptococcus	Total Coliforms
	Group	Microbiology	Others			

Guideline = ODWSOG * **= Guideline Exceedence** All analysis completed in Ottawa, Ontario (unless otherwise indicated by ** which indicates analysis was completed in Mississauga, Ontario). Results relate only to the parameters tested on the samples submitted.

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additional QA/QC information available on request. 146 Colonnade Rd. Unit 8, Ottawa, ON K2E 7Y1

Page 2 of 2



Environment Testing

						Page 1 of 6
Paterson Group	154 Colonnade Rd South	Nepean, ON	K2E 7T7	Mr. Russell Chown	9511	Invoice to: Paterson Group
Client:				Attention:	PO#:	Invoice to:

2017-01-20 2017-01-27 PH3158 61826

Report Number: Date Submitted: Date Reported: Project: COC #:

1700994

Dear Russell Chown:

Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).

Report Comments:

Rebecca Koshy	2017.02.02	15:00:22	-05'00'	
C. J.	Antequit	7		

APPROVAL:

Rebecca Koshy Project Manager All analysis is completed in Ottawa, Ontario (unless otherwise indicated).

Eurofins Ottawa is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on our CALA scope of accreditation. It can be found at http://www.cala.ca/scopes/2602.pdf.

Eurofins(Ottawa) is certified and accredited for specific parameters by OMAFRA, Ontario Ministry of Agriculture, Food and Rural Affairs (for farm soils). Licensed by Ontario MOE for specific tests in drinking water.

Eurofins(Mississauga) is accredited for specific parameters by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025

Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline values listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official provincial or federal guideline as required.

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2017-01-20 2017-01-27

PH3158 61826

Report Number: Date Submitted: Date Reported: Project: COC #:

1700994

Environment Testing

Paterson Group	154 Colonnade Rd South	Nepean, ON	17	Mr. Russell Chown		Paterson Group	
Paters	154 C	Nepea	K2E 7T7	Mr. Ru	9511	Paters	
Client:				Attention:	PO#:	Invoice to:	

				Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1278301 Water 2017-01-19 TW1-WS1	1278302 Water 2017-01-19 TW1-WS2
Group	Analyte	MRL	Units	Guideline		
Calculations	Hardness as CaCO3	-	mg/L	OG 100	431*	428*
	lon Balance	0.01			1.01	0.99
	TDS (COND - CALC)	-	mg/L	AO 500	734*	728*
General Chemistry	Alkalinity as CaCO3	2	mg/L	OG 500	250	255
	O	-	mg/L	AO 250	194	190
	Colour	0	TCU	AO 5	7*	*00
	Conductivity	S	uS/cm		1130	1120
	DOC	0.5	mg/L	AO 5	2.9	2.6
	LL.	0.10	mg/L	MAC 1.5	0.24	0.28
	N-NO2	0.10	mg/L	MAC 1.0	<0.10	<0.10
	N-NO3	0.10	mg/L	MAC 10.0	<0.10	<0.10
	Hq	1.00		6.5-8.5	7.77	7.81
	SO4	-	mg/L	AO 500	46	45
	Turbidity	0.1	NTU	AO 5.0	2.4	2.1
Metals	Ca	-	mg/L		118	117
	Fe	0.03	mg/L	AO 0.3	0.40*	0.38*
	X	-	mg/L		5	2
	Mg	-	mg/L		33	33
	Mn	0.01	mg/L	AO 0.05	0.04	0.04
	Na	N	mg/L	AO 200	64	60
Nutrients	Organic Nitrogen	0.08	mg/L	OG 0.15		0.08
	Total Kjeldahl Nitrogen	0.1	mg/L		0.1	0.2
Phenols	Phenols	0.001	mg/L		<0.001	<0.001
Subcontract	N-NH3	0.01	mg/L		0.10	0.12
	S2-	0.02	ma/L	AO 0.05	0.05	*90 ^{.0}

Guideline = ODWSOG * = Guideline Exceedence All analysis completed in Ottawa, Ontario (unless otherwise indicated by ** which indicates analysis was completed in Mississauga, Ontario). Results relate only to the parameters tested on the samples submitted. Methods references and/or additional QA/QC information available on request.

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146 Colonnade Rd. Unit 8, Ottawa, ON K2E 7Y1

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2017-01-20 2017-01-27

PH3158 61826

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Environment Testing

Paterson Group	154 Colonnade Rd South	Nepean, ON	K2E 7T7	Mr. Russell Chown	9511	Invoice to: Paterson Group	
Client:				Attention:	PO#:	Invoice to:	

1278302	Water	2017-01-19	TW1-WS2		0.2
1278301	Water	2017-01-19	TW1-WS1		0.1
Lab I.D.	Sample Matrix	Sample Type Sampling Date	Sample I.D.	Guideline	
				MRL Units	mg/L
				MRL	0.1
				Analyte	Tannin & Lignin
				Group	Subcontract

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146 Colonnade Rd. Unit 8, Ottawa, ON K2E 7Y1

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Environment Testing

Paterson Group	154 Colonnade Rd South	Nepean, ON	K2E 7T7	Mr. Russell Chown	9511	Paterson Group	
Client:				Attention:	PO#:	Invoice to:	

QC Summary

An	Analyte	Blank	QC % Rec	QC Limits
Run No 320773	Analysis/Extraction Date 2017-01-20	Analyst	C_F	
Method C SM2130B				
Turbidity		<0.1 NTU	86	70-130
Run No 320826	Analysis/Extraction Date 2017-01-20	Analyst	SKH	
Method M SM3120B-3500C	3500C			
Calcium		<1 mg/L	86	90-110
Potassium		<1 mg/L	97	87-113
Magnesium		<1 mg/L	98	76-124
Sodium		<2 mg/L	109	82-118
Run No 320837	Analysis/Extraction Date 2017-01-23	Analyst	AET	
Method C SM4500-NO3-F	03-F			
N-NO2		<0.10 mg/L	100	80-120
N-NO3		<0.10 mg/L	97	80-120
Run No 320840	Analysis/Extraction Date 2017-01-23	Analyst	K A	
Method EPA 200.8				
Iron		<0.03 mg/L	101	91-109
Manganese		<0.01 mg/L	100	92.9-107
Run No 320843	Analysis/Extraction Date 2017-01-20	Analyst	K_A	

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146 Colonnade Rd. Unit 8, Ottawa, ON K2E 7Y1

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2017-01-20 2017-01-27

PH3158 61826

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Environment Testing

Paterson Group	154 Colonnade Rd South	Nepean, ON	K2E 7T7	Mr. Russell Chown	9511	Paterson Group	
Client:				Attention:	PO#:	Invoice to:	

QC Summary

Ani	Analyte	Blank	QC % Rec	QC Limits
Method SM 4110				
Chloride		<1 mg/L	102	90-110
SO4		<1 mg/L	107	90-110
Run No 320889	Analysis/Extraction Date 2017-01-23	Analyst	AET	
Method C SM4500-H+B	FΒ			
Alkalinity (CaCO3)		<5 mg/L	66	90-110
Conductivity		<5 uS/cm	66	90-110
ш		<0.10 mg/L	108	90-110
Hd		6.31	66	90-110
Run No 320929	Analysis/Extraction Date 2017-01-24	Analyst	AET	
Method C SM5310C				
DOC		<0.5 mg/L	102	84-116
Run No 320951	Analysis/Extraction Date 2017-01-25	Analyst	AET	
Method C SM2120C				
Colour		<2 TCU	100	90-110
Run No 321087	Analysis/Extraction Date 20	2017-01-26 Analyst S	SDC	
Method SUBCONTRACT P	\CT P			
EHN-N		<0.01 mg/L	98	
Phenols		<0.001 mg/L	92	

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2017-01-20 2017-01-27

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1700994

Environment Testing

Paterson Group	154 Colonnade Rd South	Nepean, ON	K2E 7T7	Mr. Russell Chown	9511	Paterson Group	
Client:				Attention:	PO#:	Invoice to:	

QC Summary

Analyte	Blank	QC % Rec	QC Limits
S2-	<0.02 mg/L	86	
Tannin & Lignin	<0.1 mg/L	100	
Total Kjeldahl Nitrogen	<0.1 mg/L	97	
Run No 321160 Analysis/Extraction Date 2017-01-27	Analyst	SCM	
Method C Ion Balance			
lon Balance			
Method C SM2340B			
Hardness as CaCO3			
Method C SM2540			
TDS (COND - CALC)			
Method C SM4500-Norg-C			
Organic Nitrogen			

Guideline = ODWSOG * = Guideline Exceedence All analysis completed in Ottawa, Ontario (unless otherwise indicated by ** which indicates analysis was completed in Mississauga, Ontario). Results relate only to the parameters tested on the samples submitted. Methods references and/or additional QA/QC information available on request.

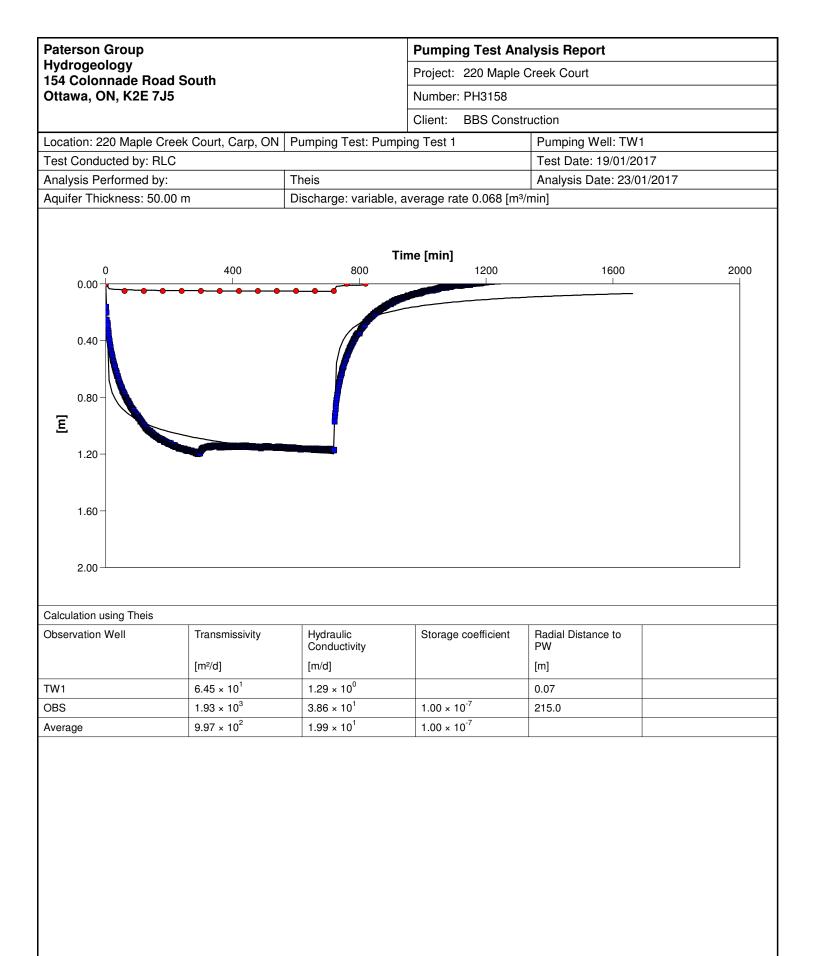
MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

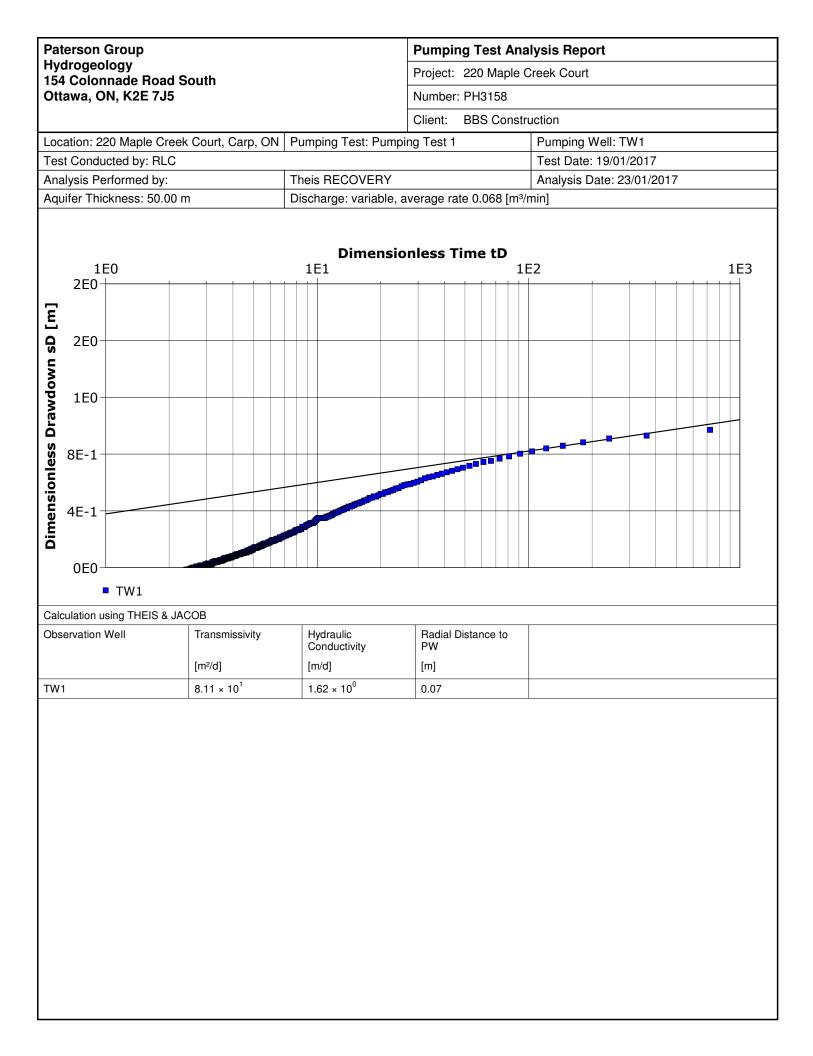
146 Colonnade Rd. Unit 8, Ottawa, ON K2E 7Y1

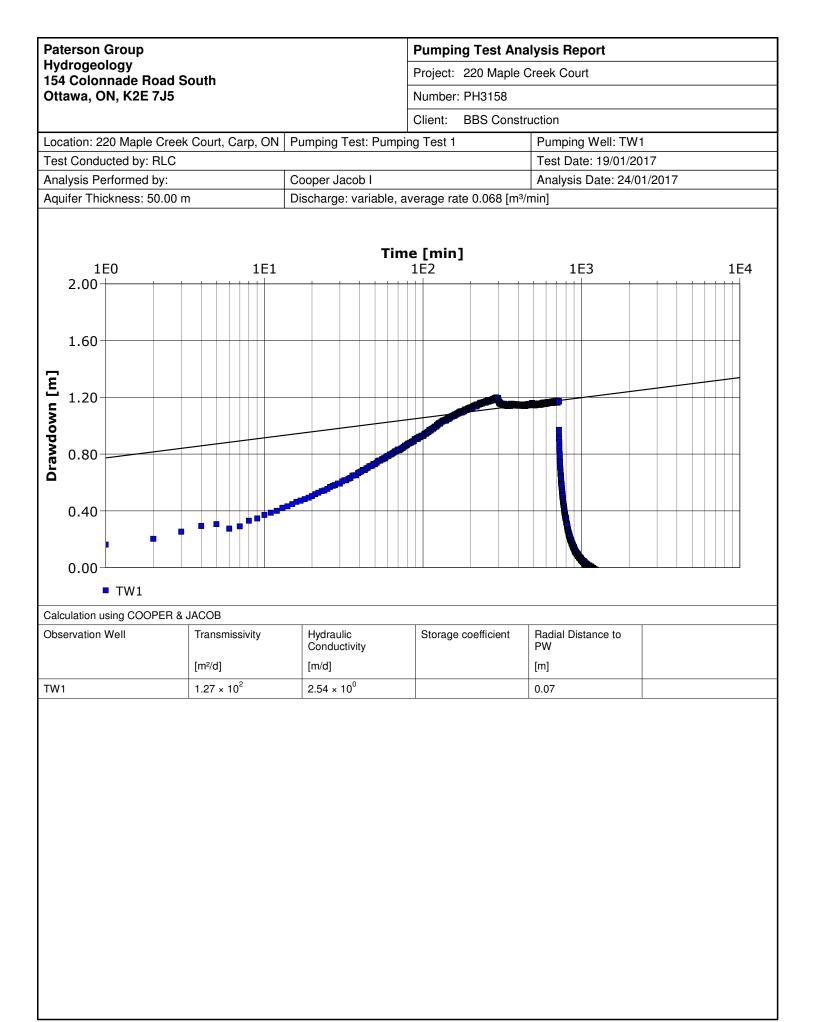
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Appendix 3

- Aquifer Analysis
- Langlier Saturation Index / Ryznar Stability Index Calculations
- Offsite Well Owner Interviews







Paterson Group					Pumping Test Analysis Report							
	Hydrogeology 154 Colonnade Road South					Project: 220 Maple Creek Court						
Ottawa, ON, K2E 7J5					Number: PH3158							
					Client: BBS Construction							
Location: 220 Maple Creek Court, Carp, ON Pumping Test: Pumpi					ng Test 1	Test 1 Pumping Well: TW1						
Test Conducted by: RLC					Test Da			te: 19/01/2017				
Aqı	uifer Thickness: 50.00) m	Discharge: variable, average rate 0.068 [m ³ /min]									
Analysis Name Analysis Performed by Analysis Date Me			Method	name Well		T [m²/d]	K [m/d]	S				
1 Theis 23/01/20			23/01/2017	Theis	TW1			6.45 × 10 ¹	1.29×10^{0}			
2 Theis 23/01/2017 Theis				OBS		1.93 × 10 ³	3.86 × 10 ¹	1.00 × 10 ⁻⁷				
3	Theis RECOVERY		23/01/2017 Theis Recovery TW1			TW1		8.11 × 10 ¹	1.62×10^{0}			
4 Cooper Jacob I 24/01/2017 Cooper 3			& Jacob I	TW1		1.27 × 10 ²	2.54×10^{0}					
				1		1	Average	5.51 × 10 ²	1.10 × 10 ¹	1.00 × 10 ⁻⁷		
							1					

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patersongroup 210 & 220 Maple Creek Drive PH3158

TW1	inputs						
рН	7.81	А	0.19				
TDS	728	В	2.34				
Hardness	428 255	C	2.23 2.41				
Alkalinity Temp.	255	D	2.41				
remp.	11.0	pHs =	7.192664254				
Langli	ier Saturation Index (LSI) C	alculation	(Langlier, 1936)				
	LSI = pH - pHs	A = (Log10 [TDS] -	1) / 10				
	pHs = (9.3 + A + B) - (C + D)	B = -13.12 x Log10					
	Where:						
	Where	. -	C = Log10 [Ca2+ as CaCO3] - 0.4 D = Log10 [alkalinity as CaCO3]				
		LSI	= 0.6				
LSI	Effect	LSI	= 0.6				
LSI 0.5 to 2	Effect Water is super saturated and tends to precipitate						
-		a scale layer of calcium carbonate (s	cale forming but non-corrosive)				
0.5 to 2	Water is super saturated and tends to precipitate	a scale layer of calcium carbonate (s	cale forming but non-corrosive)	:).			
0.5 to 2 0 to 0.5	Water is super saturated and tends to precipitate Water is super saturated and tends to precipitate	a scale layer of calcium carbonate (s a scale layer of calcium carbonate (sli rbonate. A scale layer of calcium carb	cale forming but non-corrosive) htly scale forming and corrosive onate is neither precipitated non	:).			

Ryznar Stability Index (RSI) Calculation		n	(Ryznar, 1944)			
	RSI = 2(pHs) - pH					
		RS	SI =	6.6		
RSI	Effect					
<5.5	Heavy scale will form					
5.5 to 6.2	Scale will form					
6.2 to 6.8	No scale or corrosion					
6.8 to 8.8	Water is aggresively corrosive					
>8.5	Water is very agressively corrosive					

patersongroup	Wa	ter Well / Septic S	System Insp	ection Log	
Address:	205 MAPLE	CREEK CourtProject	Number:	PH3158	
Name of Property Owner		SANTO 1			
Date of Inspection:		Owner	telephone No:	613-836-	- 5388
Paterson Rep:	24/JAN/17 RLC			12:00 Noon	
				12.00 / 00.00	
Well Details					
Is well casing exposed a	bove ground surface ?	(Ø/N	L	ength of stickup:	0.44m
Does owner have a copy	y of the 'water well record'	? Y N Try to obt	ain a copy or get data	ails (take a photo)	
How old is the well?	? In wh	at year was the house bui	lt ?		
Depth of well? ' man	<u>55'</u> Dept	n of well casing ?	D	iameter of casing:	4" 6" ./)other ?
Who drilled the well?	No inducat	Von on car	c	heck well cap for driller ID	
		D	<u> </u>		
Water Quality	4				
Taste ?	good			(Can	dank)
Odour?	good			<u> </u>	atos)
Colour ?	<u>Soud -</u>	no color	سى	·	
Hardness ?	normal				
History of bacteria testin	ig?				
Any other water quality r	related comments or issue	s?			
Water treatment details:	(Aid not for	us on this)	h.		
SAMPLING DETAILS:					
	Copy of results to well ov	vner? (get contact details / ema	ail address)	<u> </u>	
	Temp pH	Cond	TDS		с.
Water Quantity		,			
Size of pump in well ? Pumping rate ?	NO INFO	Type of	f pump ?		
Depth of pump in well ?			h	as owner ever seen it layed	out on surface ?
	ed comments or issues ?	Kla			
Has the well ever run dr			····		
	, ·				
Septic System	draw location on sketch	uck intervious	- dic r	ret focus or	reptuc system
Class 4? Tertiary treatment?			_		the-
· ·	oblems with the septic sys	tem? Y/N			
		Ĺ	ノ -	· · · · · · · · · · · · · · · · · ·	
		<u></u>			
Environmental Concer	ns no.c.			0	
Surface water ?	none -	vac tucks	across of vi	al i	
Septic System ?			· · ····-		
Land use ?				-	
Neighbouring properties	;?			ł.	· .
	ntamination (onsite and off	site) ?			trac
				logistics cen	u 25
Please sketch the site layout s	showing well location and location) of septic system - on reverse s	de		
			Santo Pe	corella	santo@o-l-c.c
I					tel: 613 836 538

All dimensions in metres (m) unless 205 Maple Creek Court Carp, ON Canada KOA 1LO tel: 613.836.5388 www.o-l-c.ca

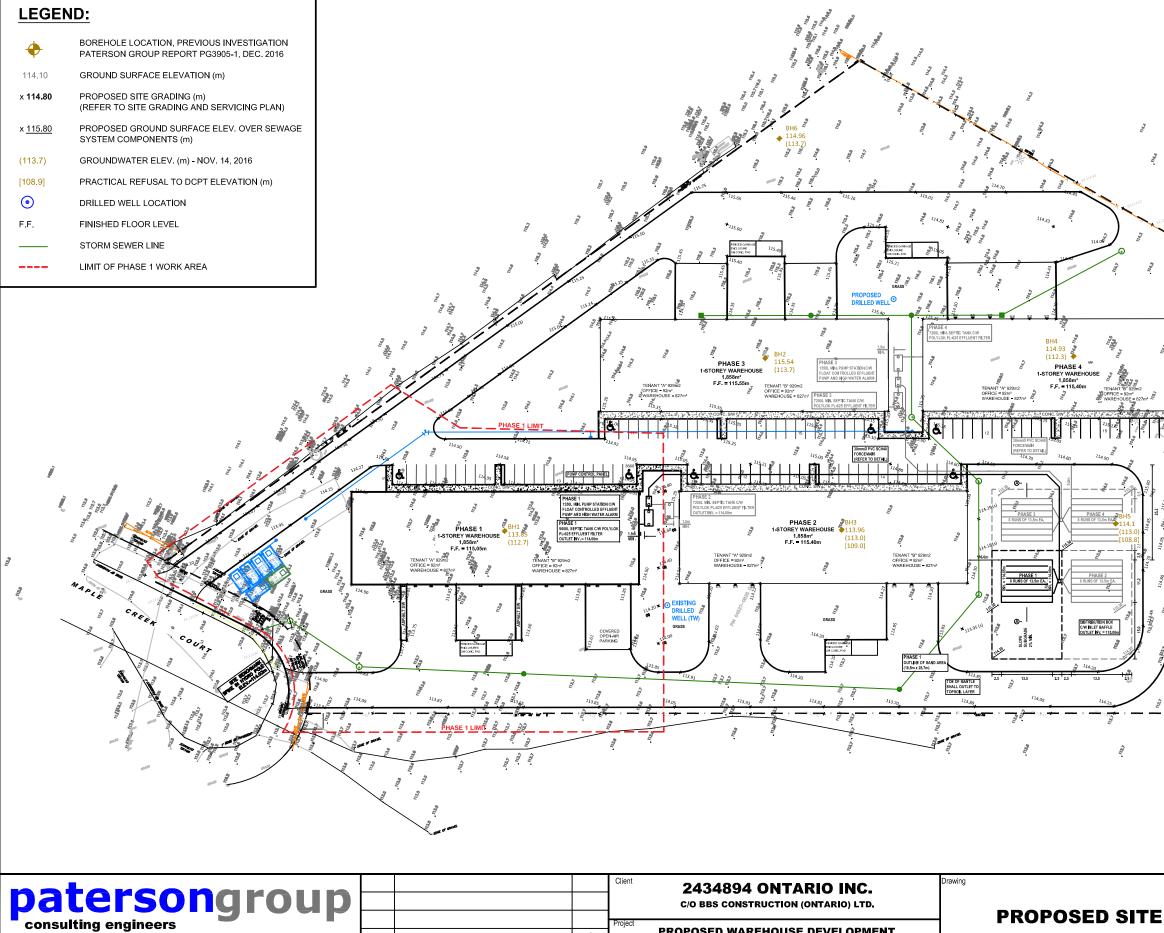
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patersongroup					spection Log	
Address:	<u>210 MAREC</u> m: <u>N</u> <u>18/JAN/17</u>	EEK COUR	$\tau_{\tau_{\star}}$ Project Nu	imber:	PH315	8
Name of Property Owne	r: A	CM SER	RVICES	_	CHRIS	
Date of Inspection:	18/JAN/17	· •	Owner tele	phone No:	613-913-	7493
Paterson Rep:	R		-	Time onsite:	12:25 pu	
					<u>- 12 = 2 pr</u>	
Well Details						
Is well casing exposed a	above ground surface ?		Y / N		Length of stickup:	
Does owner have a cop	y of the 'water well recor	rd'? Y/N	Try to obtain	a copy or get d	latails (take a photo)	
How old is the well ?	In v	what year was tł	he house built ?)		
Depth of well?	Ďe	pth of well casin	ıg ?		Diameter of casing:	
Who drilled the well?					check well cap for driller -	ID
Water Quality						
Taste ?					A	
Odour ?	PONT	DS	INK	$\sim \omega$	1762	•••
Colour ?		Not-	hoor	ed	No.	
Hardness ?	•		~ 4	î	1	
History of bacteria testir		NØ	PU	MA		
÷	related comments or iss	ues?	· · · · · · ·	1		
Mater tractment details						<u> </u>
Water treatment details SAMPLING DETAILS:			50.4	17 LE		
SAMELING DETAILS.	Copy of results to well	NT				
	Temp pl		act details / email a	TDS		•
Water Quantity	F		· · · · · · · · · · · · · · · · · · ·			
Size of pump in well ?			Type of p	Imp ?		
Pumping rate ?				•		
Depth of pump in well ?					has owner ever seen it l	ayed out on surface ?
Any water quantity relat	ed comments or issues	?				
Has the well ever run d	y ?					
Septic System	draw location on sketch					
Class 4 ? Tertiary treatment	2					
Have there been any pr	oblems with the septic s	system ?	Y / N			
Environmental Conce	rns	TRAN	SFER	STA	TION	
Surface-water?		, , ,				
Septic System ?						
Land use ?				Kris N	orric	
Neighbouring properties	3?					
Potential sources of col	ntamination (onsite and	offsite) ?		Cell: 613.9		
Please sketch the site layout	showing well location and loca	tion of septic systen	n - on reverse side	Fax: 613.8		
			4		hydrovac.com hydrovac.com	
D.1	All	dimensions in me	atres (m) unless c			🕑 24 hour service



Appendix 4

• Drawing No. PH3158-2– Proposed Site Development Plan



consulting engineers				
	01/02/17	ssued with Report No. PH3158-REP.01	0	PROPOSED WAREHOUSE DEVELOPMENT
	01/02/17	Issued with Report No. Philippine . Of	v	210 & 220 MAPLE CREEK COURT
154 Colonnade Road, Ottawa, Ontario K2E 7J5	Date	Description	Rev.	OTTAWA, ONTARIO

PROPOSED SITE

Date: Checked by:	HV
PH3158-2	