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Structural • Environmental •

Hydrogeology •

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REPORT ON

HYDROGEOLOGICAL AND TERRAIN STUDY PROPOSED COMMERCIAL BUILDINGS 3904 MARCH ROAD CITY OF OTTAWA ONTARIO

Submitted to:

Dog World Kennel 3904 March Road Carp, Ontario K0A 1L0

DATE April 25, 2022

DISTRIBUTION

1 digital copy City of Ottawa 1 digital copy Tracy Kim Holden

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April 25, 2022 190622

Dog World Bedrock Kennels 3904 March Road Carp, Ontario K0A 1L0

Attention: Ms. Tracy Kim Holden

RE: HYDROGEOLOGICAL AND TERRAIN STUDY

EXISTING SUPPLY WELL

PROPOSED COMMERCIAL BUILDINGS

3904 MARCH ROAD

WEST CARLETON-MARCH WARD CITY OF OTTAWA, ONTARIO

Dear Madam:

This letter presents the results of an evaluation of the water quality and quantity for the well that will supply water for the above noted proposed expansion to an existing mixed used commercial and residential property at 3904 March Road, City of Ottawa, Ontario (see Key Plan, Figure 1). It is understood that the proposed development is to consist of an expansion of an existing dog kennel business on a property that also contains a single family dwelling.

The well in question was constructed by George H. Law and Son Ltd. of Calibogie, Ontario on September 24, 2000. A Ministry of the Environment, Conservation and Parks (MECP) Well Record for the subject well (TW1) and a Certificate of Well Compliance is provided as Attachment A.

This report consists of an evaluation of the water quality and quantity of an existing well on the subject property to ensure that the water quality and quantity of future wells drilled on the other proposed severed properties is acceptable using the following guidelines; Ministry of the Environment, Conservation and Parks (MECP) Guideline D-5-5 and the Ontario Drinking Water Standards, Objectives and Guidelines (ODWSOG). Consideration has also been given to the groundwater impact assessment guidelines under MECP D-5-4. A pumping test was carried out at the well, TW1, by a member of our engineering staff on October 7, 2020. The terrain study includes information from boreholes installed at the site to determine the soil and groundwater conditions with regards to sewage impact considerations.

Background

Based on a review of the surficial geology map for the site area, it is expected that the site is underlain by stone-poor sandy silt to silty sand-textured till on Paleozoic Terrain. Bedrock geology mapping indicates that the bedrock underlying the site consists of limestone, dolostone, shale and sandstone of the Ottawa Group, Simcoe Group and Shadow Lake Formation.





Based on a review of overburden thickness mapping for the site area, the overburden is estimated to be between about 0 to 10 metres in thickness above bedrock in the area. The three boreholes put down as part of a geotechnical investigation at the site indicates soil types of sand, silt and silty clay with overburden thicknesses of some 3.6 to 4.5 metres were encountered in boreholes put down at the site. The groundwater elevation was observed at 0.8 to 0.9 metres below existing ground surface on May 28, 2020.

GROUNDWATER SUPPLY INVESTIGATION

Water Demand

The water demand is calculated using the information from the sewage system daily design flow and the City of Ottawa Water Distribution Guidelines, 2010. The sewage design flows are provided below, based on the sewage design information (preliminary sewage design by Kollaard Associates Inc.). The calculations are as follows:

Commercial Daily sewage design flow:

- Existing (20 cages plus 6 employees) and Proposed Dog Kennel (plus additional 19 cages and 6 employees)
- 75 litres per cage x 39 cages = 2,925 L/day
- 75 litres per employee x 12 employees = 900 L/day
- Total Commercial design flow = 5,025 L/day

Existing Residential Water demand:

- 4 bedroom home, per person water demand based on 450 L/day per person = 2,250 L/day
- MHD = 5 x 3.75 L/min/person = 18.75 L/min

TOTAL WATER DEMAND = 7,275 Litres Per Day

Since sewage system design is based on the maximum expected daily use, it is equivalent to the Average Daily Demand (ADD). The ADD is based on an eight hour operation schedule (i.e. full day occurs over an eight hour period and not over 24 hours).

City of Ottawa calculates the Maximum Hour Demand (MHD) for a commercial or industrial demand to be 1.8 x MDD.

MDD = 5,025 litres / day x 1 day / 8 hours x 1 hour / 60 minutes = 10.5 litres / minute

 $MHD = 1.8 \times MDD$

= 1.8 x 10.5 litres / minute

= 18.9 litres / minute

Alternatively, the City of Ottawa Water Distribution Guideline Section 4.2.8 indicates the average water demand for commercial usage is 28,000 L/gross ha/day. The gross area of the site is 9.6 hectares. However, this is not an appropriate way to calculate the commercial water demand on



the site as the site is very sparsely developed over its area. The total building footprint after development (based on the Stormwater Report) is 1,440 square metres, with some 2,640 square metres of gravel surfaced areas. As such, the total developed area (including parking) for the commercial use is 4,080 square metres (0.4 ha). This represents only 4% of the site area. That is the area used for the following calculation.

ADD = 0.4 ha x 28,000 L/gross ha/day = 7.8 L/min MDD = 1.5 x ADD = 11.7 L/min MHD = 11.7 L/min x 1.8 = 21.1 L/min

Using the more conservative figure for groundwater usage, the City of Ottawa predicated water usage for MDD and MHD of 11.7 L/min and 21.1 L/min, respectively, are used. As the well is also supplying water for residential demand, the peak residential demand rate is also considered as an additional water demand of 18.75 L/min. It should be noted that these peaks are unlikely to coincide as residential peaks occur usually early in the morning and in the early evening, whereas commercial water demand is typical throughout the daily operations between 8 am and 5 pm.

The Maximum Hourly Demand (MHD) for the site based on its proposed use is expected to be about ~39.9 litres/minute, compared to the pumping test rate which was 57 litres/minute.

Water Quantity

The well was pumped for six hours at a pumping rate of about 57 litres per minute. Over the course of the pumping test, the water level in the well dropped some ~0.4 metres. At the end of the pumping test, about 3 hours and 10 minutes was required for 100 percent recovery of the total drawdown in the static water level created during pumping.

The pumping test drawdown and recovery data and plots for TW1 are provided as Attachment B. The drawdown and recovery data provided were measured with reference to the top of the well casing at the test well location.

The pumping test data for the test well was analyzed using the method of Cooper and Jacob (1946). Although the assumptions on which these equations are based are not strictly met, this method provides a reasonable estimate of the aquifer transmissivity.

Transmissivity was calculated using the following relationship:

$$T = \frac{2.3Q}{4\pi ds}$$

where Q is the pump rate, m^3/day ds is the change in drawdown over one time log cycle, m
T is the transmissivity, m^2/day

Specific Capacity = Q / TD = 81.9 m³/day / 0.41 m = 199.7 m³/day/m

where Q = test pumping rate (m³/day) TD = total drawdown (m) Based on the pumping test drawdown data the transmissivity of the aquifer is estimated to be about 83 m^2 /day. Based on the recovery data the aquifer transmissivity is estimated to be about 52 m^2 /day. It should be noted that pumping tests should typically be carried out for a period of between 24 hours or greater to establish transmissivity for a confined aquifer in order to assess boundary conditions. Over the course of the six hour test, some ~20,450 litres of water was pumped from the well and only 3% of the available drawdown was used. The available drawdown at the well is about 12.9 metres (based on recommended pump intake and static water level at the time of the test). As the expected maximum daily water demand is about 7,275 litres per day, the expected drawdown at the well is well within the available drawdown for the well.

Water Quality

To determine the water quality of the groundwater supply, groundwater samples were obtained from the well during the pumping test and prepared/preserved in the field using appropriate techniques and submitted to Eurofins Environmental Testing in Ottawa, Ontario for the chemical, physical and bacteriological analyses listed in the MECP guideline entitled Procedure D-5-5, Technical Guideline for Private Wells: Water Supply Assessment, August 1996. The temperature, conductivity, pH, total dissolved solids, turbidity and residual chlorine levels of the groundwater were measured at periodic intervals during the pumping test. The results of the chemical, physical and bacteriological analyses of the water samples obtained from the test well and the field water quality are provided as Attachment C and in Table I, respectively.

The water quality as determined from the results of the analyses is acceptable. The water meets all the Ontario Drinking Water Standards (ODWS) health and aesthetic parameters tested for at the test well except for aesthetic objective for hardness, turbidity (lab based), iron and manganese.

Hardness

The water is considered to be hard by water treatment standards. Water with hardness above 80 to 100 milligrams per litre as CaC0₃ is often softened for domestic use. The hardness at the well is 253 to 271 milligrams per litre. Treatment consisting of water softening by conventional sodium ion exchange is effective to reduce scale formation associated with hardness. Ion exchange water softening may introduce relatively high concentrations of sodium into the drinking water. Treatment by water softening can also contribute a significant percentage to the daily sodium intake for a consumer on a sodium restricted diet. Where ion exchange water softeners are used, a separate unsoftened water supply could be used for drinking and culinary purposes. The untreated water had sodium levels that were less than the medical advisory level of 20 mg/l.

Turbidity (lab based)

The turbidity was measured hourly during the pumping test and the turbidity levels were below 5 NTU and were declining throughout pumping. However, the lab based turbidity levels were measured to be 7.3 NTU for the sample obtained after three hours and 5.5 NTU for the sample obtained after six hours. Turbidity (lab based) declined throughout pumping. It is considered that the turbidity level is due to the presence of iron and manganese, which were also present at or above their aesthetic objectives and contribute to turbidity. It is considered that with appropriate treatment to reduce iron and manganese, that turbidity is expected to be less than 5 NTU in treated water. There are concerns with regards to the level of turbidity measured in the lab sample as the field readings for turbidity are less than 5 NTU.

Iron

Iron was measured at a level of 0.68 after three hours and lowered to 0.52 mg/l after six hours, compared to the aesthetic objective of 0.3 mg/l. Excessive iron levels may cause brown or black discolouration of laundry and fixtures, affect the taste and colour of water, and iron precipitation in pipes and hot water tank can also promote the growth of iron bacteria. Iron can be effectively removed using conventional ion exchange water softeners. However, depending on the form that iron is in (reduced or oxidized) as well as the concentration levels and other factors, iron filters may be more effective in removing iron the water supply.

Manganese

The level of manganese was 0.05 mg/l and 0.06 mg/l after three and six hours, respectively. The aesthetic objective for manganese is 0.05 mg/l. Manganese can stain laundry and fixtures black. For a commercial usage, where domestic usages such as laundry are not anticipated, and the expected manganese concentration, which is elevated but did meet the aesthetic objective for one water sample, it may not be necessary to treat the water for this parameter. If desired, manganese can be effectively treated using a manganese greensand filter or some other proprietary filter for manganese removal.

Bacteria (Total Coliforms and E. Coli)

The initial testing encountered total coliform levels of 2-3 counts/100 ml and an absence of E. Coli. This was shortly after well construction and during well development. On September 29, 2021, the water was resampled once it had been connected to the existing kennel building. At that time, the total coliforms were measured to be 0 counts/100 ml. A free chlorine residual was measured to be 0.00 ppm prior to obtaining the water sample. It is considered by Kollaard Associates Inc. that the bacteriological water quality is acceptable for the supply well at the site.

Other Parameters

The investigation was carried out in 2020, prior to the City of Ottawa Hydrogeological and Terrain Analysis Guidelines, which were provided in March 2021. It is understood that the current requirements for Site Plan would include trace metals and VOCs. Other parameters may also be required, based on the land use and/or geological setting. It should be noted that the site is located in a very sparsely developed area and that previous Phase I Environmental Site Assessment did not encounter any industrial or commercial activity that would involve any handling of VOCs either at the site or within 250 metres of the site. As such, it is considered that there is no need to test for VOCs or other parameters that would represent any existing contamination. It is possible that natural strontium levels at the site may be present in relation to the water supply being limestone and sandstone which are sedimentary bedrock types in the Ottawa area which are associated with strontium. It will be noted that strontium levels could be present above the interim maximum allowable concentration (IMAC) and that water softening is an appropriate treatment to reduce strontium.

TERRAIN STUDY

Soils information was obtained from geotechnical boreholes put down at the subject site. The field work for this investigation was carried out on May 28, 2020, at which time three boreholes were put down at the site, identified as BH1, BH2 and BH3. The boreholes encountered about sand to depths of some 1.3 to 1.7 metres overlying silt followed by silty clay to depths of some 3.5 to 3.8 metres overlying silty sand and gravel. The boreholes were terminated at depths of 3.6 to 4.5

metres all with refusal to advance on either large boulders or bedrock. Water was observed at about 0.8 to 0.9 metres below the ground surface at all three boreholes.

The size of the septic envelopes are a function of the percolation time of the native soil in the vicinity of the septic envelope and/or the fill used for construction of a septic bed and the daily effluent loading to the septic bed. A preliminary sewage design was prepared by Kollaard Associates for the commercial building including the proposed expansion. The sewage system is indicated to consist of a conventional partially raised leaching bed with a contact area of 502.5 square metres. The design is based on the native silty sand soils contact area at the site having a percolation rate of about 15 min/cm. No imported mantle was needed for the sewage system design.

The sewage design is based on a daily design flow of 5,025 Litres per day on the design flow information. An existing sewage system design is in place already for the existing single family dwelling. The proposed commercial sewage system is to replace the holding tank that was previously used for the kennel which will be replaced by the proposed sewage system.

The sewage dilution calculations, provided as Attachment D, indicate that the impact is within 10 mg/l N-NO_3 for two sewage systems, including the existing sewage system for the single family dwelling and a separate sewage system for the commercial kennel.

Based on the terrain information provided, there is sufficient space at the site to accommodate the two sewage systems. They are both located along the east portion of the site with at least 30 metres of separation between the well and the sewage systems. It is considered that the operation of the sewage system at the site will not cause impact to the well on the existing site or surrounding properties. There are no other wells indicated to be within at least 100 metres or more of the proposed sewage system area at the site.

Animal Waste Disposal

An area was set aside on the property for disposal of dog waste. All solid waste from the kennels is placed at a solid manure storage location that is distant from sensitive receptors and that is not prone to significant runoff. The area is to be surrounded by a berm.

The proposed solid manure storage location is shown on Kollaard drawing 190622-SER (see attached). The manure storage location is surrounded by a berm which will prevent all stormwater originating on the area of the manure storage location from running off the site. The following Table provides a summary of the design conformance of the solid manure storage location to site requirements under the NMA regulations.

Table - Conformance of Solid Manure Storage to Regulations

Design Element	Design Objective	Minimum Criteria	Design Conformance		
Minimum depth of Soil	minimum potential for	3.0 m of un-	3.6 m		
to Bedrock	runoff to reach	consolidated (not	At least 1 m of silty		
	bedrock	compacted) soil	clay above bedrock		
Minimum depth to	minimum potential for	0.9 m	0.9 m to perched		
water table	runoff to reach water		groundwater.		
	table		Permanent ground		
			water below surface		

			of bedrock
Soil Type	minimize potential for nutrient flow into the bedrock	Cannot be Soil Group A	Soil Group B
Storage location	minimize potential for flooding	Cannot be in the floodplain	Is not in the floodplain.
Site slope	minimize runoff rate	< 3%	Relatively flat in proposed storage area <1%
Distance to Surface Water	minimize potential for surface water contamination	50 m	94 m to the regulation limit surrounding the adjacent wetland
Separations	minimize risk to drinking water and	45 m to drilled well 90 m to dug well	133 N/A
	provide separation to the residence	100 m to municipal well	N/A
		125 m to single residence	127 m

As shown in the above table, the solid waste from the facilities will be placed at a location in keeping with the requirements for the storage of solid manure. As such, the proposed practices with respect to the management of the canine feces will ensure that contamination from canine feces is not carried off of the site by stormwater runoff. There are no stormwater management ponds proposed on site.

Based on the above noted information, it is considered that the storage of dog waste at the site will be in keeping with Nutrient Management Act policies to prevent any detrimental impact on the surface water and groundwater in the area.

WELLHEAD PROTECTION / FLOODPLAIN CONSIDERATIONS

The supply well is located within the north portion of the site close to the dwelling, with the existing sewage system for the dwelling located on the east side of the site. The proposed location for the commercial sewage system is south of the existing sewage also on the east side of the property. The sewage systems are at least 30 metres or more from the existing wells. The well casing must extend to greater than 400 millimetres above grade at the time of construction. It should be verified that the top of the well casing is at least 400 millimetres above the finished grade at the well location.

Additionally, the ground surface shall be graded such that the well is the highest point on the ground surface within 3 metres radially from the exterior of the well casing and shall ensure that water does not collect or pond near the well head. The well has been grouted and cased to a depth of about 6.4 metres below the existing ground surface, according to information provided on the well record (Attachment A). The well is physically separated from the driveway by at least 3 metres. With these measures in place, it is considered that an adequate amount of wellhead protection is going to be in place to protect the water supply for the proposed commercial use of the property. The well location is also appropriate for access in case of repairs and well maintenance.

Recommendations for wellhead protection include ensuring that potential contaminant sources are at least 15 metres or more from the well. Possible contaminant sources that could be present at the site include; waste storage (dog feces), garage and related chemicals, such as antifreeze, gasoline,



oils, vehicle/boat/equipment storage, sewer lines, septic systems, animal enclosures, manure or compost piles. The sewage systems and dog waste storage area are greater than 30 metres or more from the well location.

Recommendations for well maintenance include; inspect wellhead annually to ensure that the casing is structurally sound, verify well cap is sealed and that surface water is not pooling around wellhead. The well is located such that it is easily accessible for maintenance/repairs.

Based on the results of this evaluation it is considered that the well in question should supply water of adequate quantity and quality for the proposed development with suitable treatment and wellhead protection as indicated above.

RECOMMENDATIONS

The following wellhead protection measures are required:

- Ensure that potential contaminant sources are at least 15 metres or more from the well.
 Possible contaminant sources that could be present at the site include; waste storage (dog
 feces), garage and related chemicals, such as antifreeze, gasoline, oils,
 vehicle/boat/equipment storage, sewer lines, septic systems, animal enclosures, manure or
 compost piles. The sewage systems and dog waste storage area are greater than 30
 metres or more from the well location.
- Maintain well at least 3 metres from the edge of the driveway/laneway at the site to ensure adequate separation distance to prevent damage from vehicles and surface water drainage is away from the well.

The following should be considered for water quality considerations:

• Well water at the site has elevated hardness, iron, manganese and iron-related turbidity.

The following treatment considerations are recommended:

- ➤ Hardness: Water softening by conventional sodium ion exchange is recommended to reduce hardness. However, this is expected to introduce relatively high concentrations of sodium into the drinking water, which may contribute a significant percentage to the daily sodium intake for a consumer on a sodium restricted diet. The water may be scale forming if water softeners are not used.
- ➤ Iron, manganese and iron-related turbidity (inorganic): Water softening to reduce hardness should have a corresponding effect on iron, provided the water softener is designed and calibrated for iron removal. A manganese greensand filter or oxidation with filtration through a proprietary filter media may be more effective at removing iron and manganese. Treatment for iron is expected to have a corresponding effect on turbidity, which was elevated in samples that had been stored and tested at the laboratory. The field turbidity levels were less than 1 NTU.
- Trace Metals and VOCs testing was not carried out as the requirement for such testing has only been required after the field work for this project was carried out. It is considered that VOCs testing is not necessary for this property as it is in a rural residential setting rather than a typical commercial or industrial park setting. The Phase I ESA indicated there are no potential contaminant sources in the site vicinity. It should be noted that there is a potential for elevated strontium due to the sedimentary limestone and sandstone aquifer that is present at the site. If strontium is elevated, conventional water softening is appropriate to remove strontium from any drinking water. Strontium currently has a proposed Maximum Acceptable Concentration (MAC) by Health Canada of 7.0 mg/L. The proposed MAC is

established as there are a few studies that indicate a potential for adverse effects of strontium for humans. Since the highest sensitivity to adverse bone effects occurs in the first year of life, infants are the most sensitive to strontium toxicity. The level of strontium measured in the raw water supply at this site is 23.5 mg/L, which is above the acceptable proposed limit. Strontium may be reduced from water by the use of ion exchange water softeners or a point of use reverse osmosis treatment unit for any water used for drinking or culinary purposes.

We trust this letter provides sufficient information for your purposes. If you have any questions concerning this letter, please do not hesitate to contact our office.

Yours truly, Kollaard Associates Inc.



Colleen Vermeersch, P. Eng.

Attachments: Figure 1 - Key Plan

Site Servicing Plan - Fig. 190622-SER
Table I - Field Water Quality

Attachment A - Well Record and Certificate of Well Compliance

Attachment B - Pumping Test Data

Attachment C - Well Water Laboratory Test Results
Attachment D - Sewage Dilution Calculations

KEY PLAN

FIGURE 1

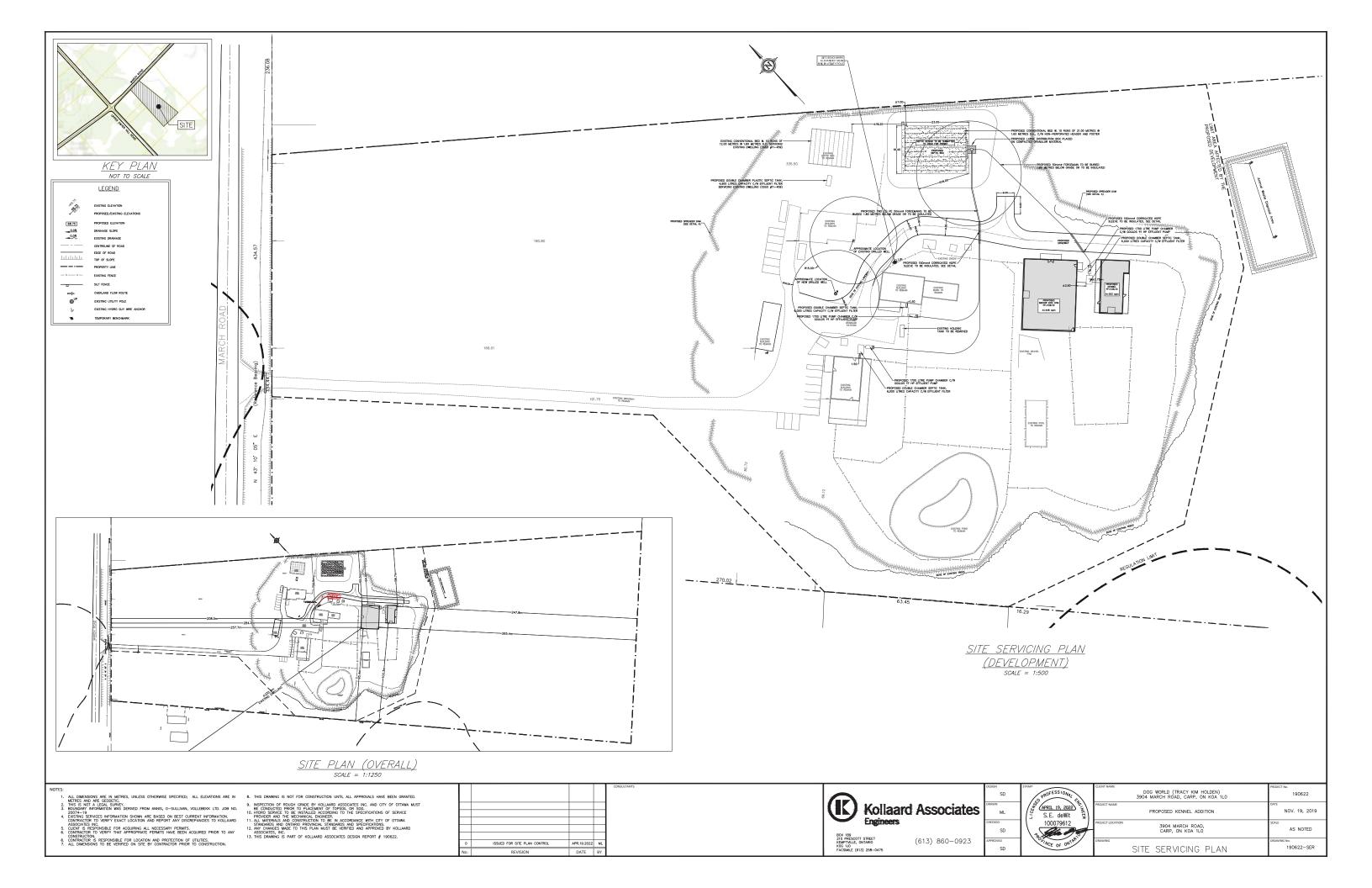


NOT TO SCALE



Project No. 190622

Date April 2022



October 7, 2020 190622

TABLE I
FIELD WATER QUALITY MEASUREMENTS
FOR TEST WELL 1

Time Since Pumping Test Started (min)	Temperature (°C)	рН	Turbidity (NTU)	Total Dissolved Solids (ppm)	Conductivity (µS)	Free Chlorine (ppm)
60	9.9	8.1	2.1	253	505	0.0
120	10.0	7.9	2.4	250 555		-
180	10.0	8.0	1.2	257	517	0.0
240	10.2	8.1	0.8	262	525	-
300	10.0	8.0	0.5	268	530	-
360	10.1	8.1	0.5	255	551	0.0

ATTACHMENT A

MOE WELL RECORD AND CERTIFICATE OF WELL COMPLIANCE FOR TW1
PROVIDED BY WELL DRILLER
AND AREA WELL RECORDS

Ontario Communico and Parks Well		11 1	at the state of 1
reconstruction recorded by Charles Charles	Tag#:A3053	1 - 3	Well Record
Frat hong			Page of
West Location March Rd	Management	E-mail Address Province	Total Code Venezania
Well Location March Rd Address of West Location (Street Number Name)	Carp		CONT 206132563649
3904 March Rd	Nuntley		Priof/5 10
NO 8 3 184120305013471	Carp	Variable	Ontario KON1ZO
General Colour Most Common Material	Other Materials	tack of this know	Description Description
grey Clay		Committee	Description Description O 10'
white grey I mestone			10' 14'
11 grey limestone			50' 52'
			52' 60'
Depth Set at (m/ft) Type of Sealant Used			Results of Well Yield Testing
From To (Material and Type)	Volume Placed (mVM*)	After test of well yield, Clear and sand t Other, specify	water was Draw Down Recovery
-con Ceptient	6.40	If pumping discontinue	ed, give reason: Static Level 9, 8
		Pump intake set at (n	1 9.3' 1 9.0'
Method of Construction Well	Use	50 Pumping rate (Vmin /	1,7 7,0
☐ Cable Tool ☐ Diamond ☐ Public ☐ Commond ☐ Rotary (Conventional) ☐ Jetting ☐ Domestic ☐ Munic ☐ Rotary (Reverse) ☐ Driving ☐ Livestock ☐ Test H	cipal Dewatering	Duration of pumping	4 9.4' 4
	Hole	Final water level end	min 5 9.5 5 of pumping (m/ft) 10 9.5 10
Other, specify Other, specify Construction Record - Casing	Status of Well	If flowing give rate (I	min/GPM) 15 15
Inside Open Hole OR Material Wall Depth (mitt) Diameter (Galvanized, Fibreglass, Thickness (cmin) From To	Water Supply Replacement Well	Recommended pur	np depth (m/ft) 20 25 25
6.25 Steel 0.188 ta' 20	☐ Test Hole ☐ Recharge Well ☐ Dewatering Well	Recommended pur (l/min / GPM)	
6 openhole 20' 60'		Well production (I/m	
	Alteration (Construction) Abandoned,	Disinfected?	50 V 50 V 60 9.5 60 9.0'
Construction Record - Screen	Insufficient Supply Abandoned, Poor		Map of Well Location
Outside Diarneter (cm/in) (Plastic, Galvanized, Steel) Slot No. From To	Water Quality Abandoned, other,	Please provide a	map below following instructions on the back.
			7 0
	Other, specify		March Rd A
	Hole Diameter epth (m/ft) Diameter	\ \.	Mar
50 (m/ft) Gas Other, specify Water found at Depth Kind of Water. Fresh Untested	20' 10"	×	
(m/ft) Gas Other, specify	60'6"		Se d'well off
Water found at Depth Kind of Water: Fresh Untested OC (m/ft) Gas Other, specify] xe	Xer road.
Well Contractor and Well Technician Inform	ation Well Contractor's Licence N	almon	W.
George H. Law + Son Ltd	3323		T.
848A Calabogie Rd P. Box 155 Postal Code Publishess E-mail Address	Calaboare	Comments:	
	Caldion	Well owner's	Date Package Delivered Ministry Use Only
S Telephone No. (inc. area code) Name of Well Technician (Last Name	e. First Name)	information package	20201006 Audit No. 23397
s. Telephone No. (inc. area code) Name of Well Technician (Last Name			AL DAY COLOR
127622080 Law Altr	Date Submitted	delivered	Date Work Completed

XXX

CERTIFICATE OF WELL COMPLIANCE

1. Alfred Law do hereby o	ertify 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
Tracy Holden	(Name of Landowner), located at
3904 March Rd, Pr+ 1+15, Con 10	(Legal Description, Lot/Plan No.) in the
city of Ottawa	

I 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 the site and City standards.

I 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 24 day of Sept, 2020.

George H. Law + Son Ud

(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 (where applicable) with regards to casing length and grouting requirements.

Signed this 24 day of Sept 2020

(Engineer)

Green In-Tents Inc., 104 Country Meadow Drive, Carp, ON KOA 1L0 (613)839-5336 (ph); (613)978-5336 (cell); (613)839-0251 (fx)



The Ontario Water Resources Commission Act

WATER WELL RECORD

31F8a.

COORDINATE RECORD SOT COMPRISE AND RECORD STATE OF THE PROPERTY OF THE PROPER	Water	management in O	I. PRINT ONLY IN SE	PACES PROVIDED CT BOX WHERE APPLICABLE	11	115116	61-	MUNICIP. 15005	CON.	22 23 24
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31	GENE	ERAL COLOUR	MOST			,			FR	
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Trum		2	FRESH 3 SULPHUR SALTY 4 MINERAL	4 OPEN HOLE	1000	20:23	DEPTH SET	AT - FEET MA		(CEMENT GROUT, LEAD PACKER, ETC.)
T FRESH 3 SULPHUR 24-25 STEEL 26 27-30 18-21 22-25 26-25 30-33 80]	1 ₂	SALTY 4 MINERAL	3 ☐ CONCRETE						
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NAME OF DRILLER OR BORER LICENCE NUMBER S REMARKS:	Z X		GR OR BORER		LICENCE NUMBER				7_\	P
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FORM NO. 0506-4-77

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The Ontario Water Resources Act

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LOG OF OVERBUNDEN AND BEDROCK MATERIALS SIZE MISSING CONTROL AND SERVICE STORY AND S	COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOMN, VILLAGE	CON BLOCK TRACT, SURVEY, ETC) Lot 55 "
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	WATER FOUND KIND OF WATER	INSIDE WALL D	DEPTH - FEET	
COMMERCIAL STATUS SALTY	1 10-13 1 TRESH 3 SULPHUR 14	MO-11 1 PASSES 12	13-16 0	
10-13	15-18 1 FRESH 3 SULPHUR 19	CONCRETE	/ 56 ================================	EALING RECORD
1		17-18 1 STEEL 19	FROM TO MATERIAL	AND TYPE (CEMENT GROUT,
2 SALTY 4 MINERAL 2 GALVANIZED 3 GALVANIZED	2 SALTY 4 MINERAL	CONCRETE)	6 /5 10-11 11-12	
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FINAL STATUS	RECOMMENDED PUMP TYPE RECOMMENDE PUMP	/ PUMPING		2 3
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Salley Drilling 5222 Source U20986	5 GAIR PERCUSSION	HICENCE MIMAGE	DATA SE CONTRACTOR 59.62 DATE PEC	53-62 4C
I ADDRESS / I DIATE OF INSPECTION INSPECTOR	1 / / //a . 1 / /		SOURCE	020986
PO. Box 437 Carp Owl.	ADDRESS NAME OF DRILLER OR BORER SIGNATUJE OF CONTRACTOR	Carp Ont.		- -
NAME OF DRILLER OR BODER' LICENCE NUMBER 7 REMAPKS	NAME OF DRILLER OR BOHER		REMAPKS	
	SIGNATURE OF CONTRACTOR	SUBMISSION DATE	DEFIC	_
MINISTRY OF THE ENVIRONMENT COPY		DAY A NO. YR. 6	O	FORM NO. 0506—4—77 FORM

The Ontario Water Resources Act WATER WELL RECORD

0506 (07/94) Front Form 9

Print only in spaces provided. 1529163 Mark correct box with a checkmark, where applicable. CON 11 15005 OTTAWA-CARLETON Con block tract survey, Township/Borough/City/Town/y an leton Date completed 3905 Code 21 LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions) Depth - feet Other materials Most common material From General colour and 4000A ,05704e _______ 32 CASING & OPEN HOLE RECORD

Wall
Material
Wall
Depth - 1
From Length Sizes of opening (Slot No.) WATER RECORD 51 SCREEN Inside inches Water found at - feet Kind of water diam inches Depth at top of screen Material and type Sulphur Minerals Gas Steel 1
Galvanized
Concrete
Open hole
Plastic Fresh Salty ☐ Sulphur ☐ Minerals ☐ Gas **PLUGGING & SEALING RECORD** ı 🗌 Fresh 61 2 🛮 Salty Steel
Galvanized
Concrete
Open hole
Plastic ☐ Sulphur ☐ Minerals ☐ Gas ı 🛘 Fresh Depth set at - fe , 🗌 Salty From ☐ Sulphur ☐ Minerals ☐ Gas 8 i ☐ Fresh Steel 2
Galvanized
Concrete
Open hole
Plastic 。 ☐ Saity ☐ Sulphur ☐ Minerals ☐ Gas ₁ ☐ Fresh 2 Salty LOCATION OF WELL ion of pumping Hours ... Pumping test method Mins In diagram below show distances of well from road and lot line adjuste north by arrow. Water levels during ₁ □ Pumping 30 minutes PUMPING TEST feet Cloudy ☐ Clear GPM Recommended pump type pump setting Deep GPM 65 feet FINAL STATUS OF WELL Water supply
Dobservation well
Test hole
Recharge well WATER USE 5 Commercial
6 Municipal
7 Public supply
8 Cooling & air conditioning 9 Not used Domestic
Stock
Irrigation METHOD OF CONSTRUCTION 57 5 Air percussion
6 Boring
7 Diamond
8 Jetting Cable tool
Rotary (conventional)
Rotary (reverse)
Rotary (air) 10 Digging 172959 Date received Well Contractor's Licence No OCT 3 1 1996 source 562 Date of inspection USE MINISTRY Remarks CSS.ES

The Ontario Water Resources Act WATER WELL RECORD

0506 (07/94) Front Form 9

Print only in spaces provided. 1529163 Mark correct box with a checkmark, where applicable. CON 11 15005 OTTAWA-CARLETON Con block tract survey, Township/Borough/City/Town/y an leton Date completed 3905 Code 21 LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions) Depth - feet Other materials Most common material From General colour and 4000A ,05704e _______ 32 CASING & OPEN HOLE RECORD

Wall
Material
Wall
Depth - 1
From Length Sizes of opening (Slot No.) WATER RECORD 51 SCREEN Inside inches Water found at - feet Kind of water diam inches Depth at top of screen Material and type Sulphur Minerals Gas Steel 1
Galvanized
Concrete
Open hole
Plastic Fresh Salty ☐ Sulphur ☐ Minerals ☐ Gas **PLUGGING & SEALING RECORD** ı 🗌 Fresh 61 2 🛮 Salty Steel
Galvanized
Concrete
Open hole
Plastic ☐ Sulphur ☐ Minerals ☐ Gas ı 🛘 Fresh Depth set at - fe , 🗌 Salty From ☐ Sulphur ☐ Minerals ☐ Gas 8 i ☐ Fresh Steel 2
Galvanized
Concrete
Open hole
Plastic 。 ☐ Saity ☐ Sulphur ☐ Minerals ☐ Gas ₁ ☐ Fresh 2 Salty LOCATION OF WELL ion of pumping Hours ... Pumping test method Mins In diagram below show distances of well from road and lot line adjuste north by arrow. Water levels during ₁ □ Pumping 30 minutes PUMPING TEST feet Cloudy ☐ Clear GPM Recommended pump type pump setting Deep GPM 65 feet FINAL STATUS OF WELL Water supply
Dobservation well
Test hole
Recharge well WATER USE 5 Commercial
6 Municipal
7 Public supply
8 Cooling & air conditioning 9 Not used Domestic
Stock
Irrigation METHOD OF CONSTRUCTION 57 5 Air percussion
6 Boring
7 Diamond
8 Jetting Cable tool
Rotary (conventional)
Rotary (reverse)
Rotary (air) 10 Digging 172959 Date received Well Contractor's Licence No OCT 3 1 1996 source 562 Date of inspection USE MINISTRY Remarks CSS.ES

The Ontario Water Resources Act WATER WELL RECORD

Print only in spaces provided. Mark correct box with a checkmark, where applicable.	11 2	1529993	Municipality Co	DN 10 DhalfDo"f"
County or District	Township/Borough/City/Tow	m/Village	Con block tract surve	ey, etc. Lot 25-27
	Address	witon	Date	48-53
	Ottomo	BC Elevation R	completed	aay Inonth Tylear
21	Northing 18	RC Elevation R6	Basin Code	1 1 1 1 47
1 2		OCK MATERIALS (see instru	ctions)	Depth - feet
General colour Most common material	Other materials	Gene	ral description	From To
arey Sand				0 25
grey Sandstone	· · · · · · · · · · · · · · · · · · ·		<u> </u>	25 120
) 1	<u> </u>			
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				.,
31				
32				75 80
	CASING & OPEN HOLE F		of opening 31-33 Diamete	
at - feet inches	litties	rom To Mater	al and type	Depth at top of screen 30
1 / 2 2 Salty 5 Gran	Steel 12 Galvanized Concrete			feet
15-18 1 D Fath Sulphur 19	Open hole Plastic) 31 61	PLUGGING & SEAL	ING RECORD
20-23 1 DFresh Suppur	Steel 19 Galvanized Concrete	20-23 Depth set	Annular space	Abandonment
25-28 1 Fresh 3 Sulphur 29 5	Open hole Plastic	From 10-13	To Material and type (Cement grout, bentonite, etc.)
2 Salty 6 Gas 24-25 1 2	Galvanized	27-30	Ol Zes Corner	a grow
Fresh 4 Minerals	Open hole Plastic	9 120 26-29	30-33 80	
	ation of pumping 17-18		OCATION OF WELL	er (Mauricia)
Water level 25 Weter levels during 1 7 Pur	Hours Mins		ow distances of well from	road and lot line.
end of pumping	minutes 60 minutes 32-34	mulcate north by and		
The long feet 10 feet 10 feet	/ o feet / o feet			
If flowing giverate 38-41 Pump intake set at Wa	ter at end of test Cloudy		The second	\sim \sim
Recommended pump type Recommended pump type Recommended pump setting Reput Recommended pump setting Recommended pump setting setting setting Recommended pump setting setting setting setting setting	commended 46-49 np rate	144		
90-50 feet	30 GPM	177	III - 2 mile	
FINAL STATUS OF WELL 1 Water supply 2 Observation well 5 Abandoned, insufficient supply 6 Abandoned, poor quality	y ⁹ ☐ Unfinished 10 ☐ Replacement well		2m10	,
2 Observation well 3 Test hole 4 Recharge well 6 Abandoned, poor quality 7 Abandoned (Other) 8 Dewatering	neplacement well		\\\\ .4F	3
WATER USE 55-56			112	
1 Commercial 2 Stock G Municipal	9 🗌 Not used 10 🗎 Other	Dwight Hill	プ \\	
3 ☐ Irrigation 7 ☐ Public supply 4 ☐ Industrial 8 ☐ Cooling & air conditioning	and the second			
METHOD OF CONSTRUCTION 57	9 ☐ Driving		//	
1 ☐ Cable tool 2 ☐ Rotary (conventional) 6 ☐ Boring 3 ☐ Rotary (reverse) / ☐ Diarnond	10 Digging			183465
4				
Name of Well Contractor	Well Contractor's Licence No.	Data 58 Contract	tor 1 1 9 59-62 Date re	R 0 8 1998
Apricess 100 Drille Colta	70 ///	source Date of inspection	Inspector	17 0 0 177 0
Name of Well Technician	Well Technician's Licence No.	Remarks		/
Spannon Rucell	TZ122	Remarks		M
Signature of Technician/Contractor	Submission date	¥ ×		•
2 - MINISTER OF ENVIRONMENT &	ENERGY COPY			0506 (07/94) Front Form

Ministry of the Environment

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10	14	16				33	22	74	

	-	
County or District	Township/Borough/City/Town/Village	Con block tract survey, etc. Lot 25-27
Ottawa Carleton	West Carleton - Huntley Address	10 15 Date 48-53
	P O Box 942 Almonte,Ontario KO	completed
	Northing RC Elevation R	
21	17 18 24 25 26 30	31 47
LOG OF OVE	RBURDEN AND BEDROCK MATERIALS (see instruc	
General colour Most common material	Other materials Gener	ral description Depth - feet From To
Brown Candy Clay		0 12
Brown Sandy Clay		
Gray Clay		12 40
Gray & White Sandstone		40 75
		3 3 3
	ng was left 1.5 feet above groun	A TeneT
	ime of drilling	
31		
32		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
41 WATER RECORD 51 CA		of opening 31-33 Diameter 34-38 Length 39-40
	Material thickness From To	inches feet
10-13 Fresh 3 Sulphur 14 inches 5 12-42 1 x = 5	inches From 10	ial and type Depth at top of screen
59 2 Salty 6 Gas 2 0	Concrete	feet
2 Salty 6 Gas 5 F	10	PLUGGING & SEALING RECORD
20-23 1 Fresh 3 Sulphur 24 17-18 1 5 5 5 5 5 5 5 5 5	Steel 19 20-23 Galvanized Danth ac	Annular space
2 Salty 6 Gas 5	Concrete Open hole 44.5 75 Depth se	To Material and type (Cement grout, bentonite, etc.)
25-28 1 Fresh 3 Sulphur 29 5 Fr	Plastic 10-13 Steel 26 27-30 43	0 Grouted - Cement (8)
30-33 Fresh 3 Sulphur 34 60 3 0	Galvanized 18-21 Concrete	22-25
	Open hole 26-29	30-33 80
	ation of numping	
71 12 Pump 2 Bailer 50 GPM	Hours Mins	OCATION OF WELL
Static level Water level end of pumping 25 Water levels during 1 XX Pum	nping 2 Li Recovery 1/ Signature 1/ Indicate north by arre	now distances of well from road and lot line.
19-21 22-24 15 minutes 30 minutes 29-31 45 m	ninutes 32-34 60 minutes 35-37	1
6 1 1 feet 20 feet 70 feet 50 feet	30 feet 20 feet	-
If flowing give rate 38-41 Pump intake set at Wat	er at end of test 42	İ
Recommended pump type Recommended Hecommended Heco	☐ Clear ☑ Cloudy commended 46-49	
□ Shallow ★ Deep pump setting pu	mp rate 5 GPM	
50-53		er Hill Rd
	9 Unfinished	23' 8
2 ☐ Observation well 3 ☐ Test hole 6 ☐ Abandoned, poor quality 7 ☐ Abandoned (Other)	10 Replacement well	八人。; 习
4 ☐ Recharge well 8 ☐ Dewatering		<u>-</u>
WATER USE 55-56	9 □ Notuce	1; +
	9 Not use 10 Other	'¦ ∄
3 ☐ Irrigation 7 ☐ Public supply 4 ☐ Industrial 8 ☐ Cooling & air conditioning		; 1
METHOD OF CONSTRUCTION 57		, 4
¹ ☐ Cable tool 5 🛣 Air percussion	9 Driving	q
³ ☐ Rotary (reverse) ⁷ ☐ Diamond	10 Digging 11 Other	220164
4 Rotary (air) 8 ☐ Jetting		238161
Name of Well Contractor	Vell Contractor's Licence No.	
Capital Water Supply Ltd.	1558	558 JUN 24 2002
Address	I I w Date of hispection	Inspector
P.O. Box 490 Stittsville, Ontari		
S. Miller	TOO97	CSS ESS
Signatural Technician/Contractor	Submission date	CSS.ES2
1 money	tay 28 mo5 y02 ₹	0500 (07/00) F 5:
2 - MINISTRY OF THE ENVIRONMENT	oony.	0506 (07/00) Front Form

Ministry of the Environment

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10	14	16				33	22	74	

	-	
County or District	Township/Borough/City/Town/Village	Con block tract survey, etc. Lot 25-27
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	P O Box 942 Almonte,Ontario KO	completed
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21	17 18 24 25 26 30	31 47
LOG OF OVE	RBURDEN AND BEDROCK MATERIALS (see instruc	
General colour Most common material	Other materials Gener	ral description Depth - feet From To
Brown Candy Clay		0 12
Brown Sandy Clay		
Gray Clay		12 40
Gray & White Sandstone		40 75
		3 3 3
	ng was left 1.5 feet above groun	A TeneT
	ime of drilling	
31		
32		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
41 WATER RECORD 51 CA		of opening 31-33 Diameter 34-38 Length 39-40
	Material thickness From To	inches feet
10-13 Fresh 3 Sulphur 14 inches 5 12-42 1 x = 5	inches From 10	ial and type Depth at top of screen
59 2 Salty 6 Gas 2 0	Concrete	feet
2 Salty 6 Gas 5 F	10	PLUGGING & SEALING RECORD
20-23 1 Fresh 3 Sulphur 24 17-18 1 5 5 5 5 5 5 5 5 5	Steel 19 20-23 Galvanized Danth ac	Annular space
2 Salty 6 Gas 5	Concrete Open hole 44.5 75 Depth se	To Material and type (Cement grout, bentonite, etc.)
25-28 1 Fresh 3 Sulphur 29 5 Fr	Plastic 10-13 Steel 26 27-30 43	0 Grouted - Cement (8)
30-33 Fresh 3 Sulphur 34 60 3 0	Galvanized 18-21 Concrete	22-25
	Open hole 26-29	30-33 80
	ation of numping	
71 12 Pump 2 Bailer 50 GPM	Hours Mins	OCATION OF WELL
Static level Water level end of pumping 25 Water levels during 1 XX Pum	nping 2 Li Recovery 1/ Signature 1/ Indicate north by arre	now distances of well from road and lot line.
19-21 22-24 15 minutes 30 minutes 29-31 45 m	ninutes 32-34 60 minutes 35-37	1
6 1 1 feet 20 feet 70 feet 50 feet	30 feet 20 feet	-
If flowing give rate 38-41 Pump intake set at Wat	er at end of test 42	İ
Recommended pump type Recommended Hecommended Heco	☐ Clear ☑ Cloudy commended 46-49	
□ Shallow ★ Deep pump setting pu	mp rate 5 GPM	
50-53		er Hill Rd
	9 Unfinished	23' 8'
2 ☐ Observation well 3 ☐ Test hole 6 ☐ Abandoned, poor quality 7 ☐ Abandoned (Other)	10 Replacement well	八人。; 习
4 ☐ Recharge well 8 ☐ Dewatering		<u>-</u>
WATER USE 55-56	9 □ Notuce	1; +
	9 Not use 10 Other	'¦ ∄
3 ☐ Irrigation 7 ☐ Public supply 4 ☐ Industrial 8 ☐ Cooling & air conditioning		; 1
METHOD OF CONSTRUCTION 57		, 4
¹ ☐ Cable tool 5 🛣 Air percussion	9 Driving	q
³ ☐ Rotary (reverse) ⁷ ☐ Diamond	10 Digging 11 Other	220164
4 Rotary (air) 8 ☐ Jetting		238161
Name of Well Contractor	Vell Contractor's Licence No.	
Capital Water Supply Ltd.	1558	558 JUN 24 2002
Address	I I w Date of hispection	Inspector
P.O. Box 490 Stittsville, Ontari		
S. Miller	TOO97	CSS ESS
Signatural Technician/Contractor	Submission date	CSS.ES2
1 money	tay 28 mo5 y02 ₹	0500 (07/00) F 5:
2 - MINISTRY OF THE ENVIRONMENT	oony.	0506 (07/00) Front Form

Ministry of Environment and Energy

2 - MINISTRY OF ENVIRONMENT AND ENERGY COPY

The Ontario Water Resources Act WATER WELL RECORD

0506 (06/02) Front Form 9

Print only in spaces provided. Municipality Con. 1533879 Mark correct box with a checkmark, where applicable. 11 Con block tract survey, etc. Township/Borough/City/Town/Village County or District Nest 507 200 day month Date Address of Well Location completed / March Rd month year 21 1 1 1 LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions) Depth - feet To From Most common material General colour 21 brown Dand 60' 21 SandStone White 31 Sizes of opening (Slot No.) CASING & OPEN HOLE RECORD WATER RECORD 51 41 Inside diam Wall thickness Depth - feet SCREEN Water found inches Kind of water Material uam inches Depth at top of screen From To inches Material and type Steel Sulphur 13-16 Fresh Minerals Galvanized
Concrete
Open hole
Plastic 22' 6/4 feet 2
Salty Gas 0 . 188 3 ☐ Sulphur 4 ☐ Minerals 1 🗆 Fresh **PLUGGING & SEALING RECORD** 2 | Salty ☐ Gas 1 Steel
2 Galvanized
3 Concrete
4 Open hole
5 Plastic 20-23 Annular space Abandonmen 20-23 1 🗆 Fresh ☐ Sulphur ☐ Minerals Depth set at - feet Material and type (Cement grout, bentonite, etc.) □ Salty From To Gas Grout Juick 25-28 Sulphur Minerals 0 1 🗆 Fresh 1 Steel
2 Galvanized
3 Concrete
4 Open hole
5 Plastic 27-30 24.25 2

Salty 22-25 Gas ☐ Sulphur Minerals☐ Gas 3 4 6 30-33 1 🗆 Fresh 2 Salty Pumping test method Pump: 2 🚨 Ba **LOCATION OF WELL** Hours Mins 2 Bailer In diagram below show distances of well from road and lot line. Water le 1 ☐ Pumping 2 Recovery Water level end of pumping Water levels during Indicate north by arrow. Static level 15 minutes 26-28 N 60 minutes 35-37 PUMPING TES 45 minute 30 minutes 29-31 60 8 feet fee Pump intake set a If flowing give rate Clea March Rd - Cup.

| Well
60' off road. GPM 43-45 Recommended pump type pump setting \(\mathcal{L} \) ☐ Shallow Deep GPM FINAL STATUS OF WELL 54 5 ☐ Abandoned, insufficient supply 6 ☐ Abandoned, poor quality 7 ☑ Abandoned (Other) 8 ☐ Dewatering 9 ☐ Unfinished
10 ☐ Replacement well WATER JUSE 55-56 1 Domestic
2 Stock
3 Irrigation
4 Industrial 5 Gommercial
6 Municipal
7 Public supply
8 Cooling & air.conditioning 9 🗀 Not use METHOD OF CONSTRUCTION 5 Air percussion
6 Boring
7 Diamond
8 Jetting 1 ☐ Cable tool
2 ☐ Rotary (conventional)
3 ☐ Rotary (reverse)
4 ☐ Rotary (air) 9 Driving
10 Digging
11 Other 264015 Data 2 8 20**03** 3323 JUL Z Date of inspection USE MINISTRY Remarks CSS.ES3

(G))nt-	ria	Ministry of		g Number (Pla	ce sticker and pri	nt number below)	7		10/0	II Re	oor
	Onta	IIIO	the Enviro		41911	·	14,	Regulation 90	3 Ontai			
nstructi	ions for	Completi	ng Form		Anna	6				р	age	_ of _
• For u	ise in the	Province	of Ontario	only. This docum	A 041	~ •	document. P	ப lease retain for futur	e refe	rence		
 All S 	ections m	ust be co	mpleted in	full to avoid delays	s in processi	ng. Further	instructions and	d explanations are ava ment Coordinator at	ailable i	on the ha	ick of th	iis form
• All n	netre mea	asuremen	ıts shall be	reported to 1/10	th of a metre	· r	vven manager					
	<u> </u>		ue or black			MUN		Ministry Us	e Only			1 1
veli Ow	ner's Ini	ormation	and Loca	ation of Well Info	ormation	MON		ON			LOT	
	awa Ca t Number/l					West Ca City/Town/Vi	rleton- H	Intley Site/Compa	15	11 I/Block/Tre	act etc	,
Dwye	r Hill	Rd.				Almon	te	,	irumone.	*		
SPS Read	, , , , , , , , , , , , , , , , , , ,	NAD Zo 8 3 18	411	646 50	13248	Unit Make/M Garmin			lifferentia erentiated	ated 🗶 d, specify	Average	∌d
				aterials (see ins								
Seneral Co	lour M	ost commor	material	Other Ma	aterials		Genera	l Description		Dept Fro		Metres To
Brown		soil	·	busted r	ock		loose	-		0	1	.21
grey	-	sand				we	t			1.21	2	2.74
rey		clay								2.74		.75
rey &	white	sands	ton			me	a			9.75	18	3.28
-				,								
	:											
Н	ole Diame	ter		Cons	truction Rec	ord		Tes	t of W	ell Yield		
Depth From	Metres To	Diameter Centimetres	Inside	Material	Wall	Depth	Metres	Pumping test method		w Down Vater Level		overy Vater Lev
_			centimetres	iviaterial	thickness centimetres	From	То		min	Metres	min	Metres
0	i i	22.75	1 1		Casing			Pump intake set at - (metres)	Static Level			
10.36	18.28	15.25	11 11 11	Steel Fibreglass				Pumping rate - (litres/min)	1		1	
	ater Reco	ord	15.86	Plastic Concrete Galvanized	.48	+1.06	10.36	Duration of pumping	2		2	-
Vater found t Metre	Kind	of Water		Steel Fibreglass			4 (a) 23 (a) (b) (b) (c) (c) (d)	hrs +min Final water level end			THE SECTION	
m Gas	Fresh	Sulphur Minerals		Plastic Concrete				of pumping metres	3	1 44.4	3	
Other:				Galvanized Steel Fibreglass				Recommended pump type.	4		4	
m Gas	Fresh	Sulphur Minerals		Plastic Concrete				Shallow Deep	TES	TED	5	
Other:				Galvanized	<u></u>			depthmetres				
m Gas	Fresh Salty	Sulphur Minerals	Outside		Screen	4		Recommended pump rate. (litres/min)	10 15		10 15	
Other:			diam	Steel Fibreglass Plastic Concrete	Slot No.			If flowing give rate -	20		20	
mm.	well yield, nd sediment			Galvanized				(litres/min) If pumping discontin-	25 30	•	25 30	
Other, s	pecify	· · · · · · · · · · · · · · · · · · ·		No C	asing or Scr	een		ued, give reason.	40		40	
Chlorinated	Yes	☐ No	15,23	Open hole		10.36	18.28		50 60		50	
			ealing Reco	ord X Annula		oandonment	10.40	Location of			60	
Depth set a	t - Metres			slurry, neat cement slurry) etc Volun	ne Placed		v show distances of well fr			ınd buildi	ing.
1.21	0		ed Stone		(CUDIC	c metres)	Indicate north by	arrow.			l	
10.36			ed Stone nite Slu		.42	m3	70'					
								· · · · · · · · · · · · · · · · · · ·				_
								1		سک		R
								18	5 ° $\overset{\checkmark}{\sim}$	ide		Manch Rid
Cable To	ool		Method of ((air) Muc	Construction Diamond		Digging		₹	*	,		3
Rotary (c	conventional	Air per	cussion	Jetting	7 795	Other		1	1			I
Rotary (r	everse)	Boring		Driving er Use				111101				
Domestic	;	Industr	ial	Public Supp	oly K	Other St hole	Du	yer Hill Rd				İ
☐ Stock ☐ Irrigation		☐ Comm ☐ Munici		☐ Not used ☐ Cooling & a	ir conditioning	U 1 3W FW	Audit No.	A 7044 Dat	e Well(Completed		ANA ==
]Da-b		tus of Well			Z	4 / UL1	na Dolin-	200	70	7 12
7	· · · · · · · · · · · · · · · · · · ·	_	l, insufficient si	☐ Unfinished ☐ Dewatering	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	oned, (Other)	Was the well ow package delivere	TIOT O IIIIOTTIAUOTI	te Delive	200		M DD 7 12
₩ Water Si Observal	HOIT WOIL	Abandoned	, poor quality	Replaceme	nt well			Ministry Us	e Only			
	_	Wall Ca-	atrontor/To-		711	· · · · · · · · · · · · · · · · · · ·	Data Source		ntractor		, 2	8
Observation Test Holame of We	le	r	ntractor/Ted	The second second	ell Contractor's I	licence No.	- Data Course	!				
Observation Test Hollame of We	le ell Contracto	r Suppi	ly Ltd	The second second	ell Contractor's I 1558	Licence No.		VVVV MM DD Dat	e of Incr	TO		- ,
Test Ho Name of We Capita Business Ac	ell Contracto 1 Wate Idress (stree	r r Supp t name, num Stitts	ly Ltd ber, city etc.) ville On	w ntario K2S	1558 1A6		Date Received AUG 2	5 2006		Dection Y		1M DD
Observation Test Holder	ell Contracto 1 Wate dress (stree	er Suppi et name, num Stitts n (last name,	ly Ltd ber, city etc.) ville On	w ntario K2S	1558 1A6 eli Technician's i		Date Received	5 2006		TO		- ,
Observation Test Holder	ell Contracto 1 Wate Idress (stree	er Support name, num Stitts n (last name, hen Contractor	ly Ltd ber, city etc.) ville On	watario K2S	1558 1A6	Licence No.	Date Received AUG 2	5 2006		Dection Y		- ,

(A)	Onta		Ministry o		Well T	ag Number (P	lace sticker and p	print number b	elow)	Regulation 90	3 Onta	_		Record
Instructi	ions for (Completii	na Form		,					_		p	oage _	/ of /
• For t	use in the	Province	of Ontari	o only. Th	is docur	nent is a per	manent leg	al docum	ent. Ple	ase retain for futu	re refe	erence.	-	
 Ques 	stions reg	arding con	npleting th	is applica	tion can	be directed	to the Wate	r instructio er Well Ma	ons and anagem	explanations are av ent Coordinator at	ailable 416-2	on the ba 235-6203	ick of	this form.
		asuremen t early in blu			d to 1/1	Oth of a metro	e			Ministry Us	e Only	/		
Well Ow	ner's Inf	ormation	and Loc	ation of	Well Int	ormation	MUN		COL	N			LOT	
7														
	1) Cura	Carle	taa				ves t Ca	, h. X.		, ,	5		, ,	
RR#/Stree	t Number/I	Vame,					City/Town/	Village /	7	Site/Compa		t/Block/Tra	act et	c.
GPS Read	۱ .	IAD Zor	ne Easti	ng	No	thing	Unit Make/		Mode o	of Operation: Unc	differentia	ated 🞉	Aver	aged
Log of O		B∣3 // en and Be	edrock M	JG HG laterials		c/3248 structions)	Garmin			Diff	erentiate	ed, specify		
General Co	- 1	ost common			Other M			(General	Description		Dept Fro		Metres To
Brown		Soil		bus	tedro	eK		1000	e			0		1.2/
grey		Sand						wet	-			1.2	1	2.74
grey		c/ay						1				9.7		9.75
reys wh	size s	and sto	ne					med				7. /)	101028
														!
														
Н	ole Diame	ter			Con	struction Red	cord s			Tes	t of W	ell Yield		
Depth	Metres	Diameter	Inside	Moto	wial	Wall	Depth	Metr	res	Pumping test method	Dra	w Down		ecovery
From	To 10 26	Centimetres 2.75	diam centimetres	Mate	эпаі	thickness centimetres	From	То	,		min	Water Level Metres	Time min	Water Leve Metres
10.36	18,28					Casing				Pump intake set at - (metres)	Static Level			
10. 70	7 012 8	75.05)C 0.0	Steel	Fibreglass Concrete			100 7	- 11	Pumping rate - (litres/min)	1		1	
W Water found	ater Reco		15.86	Galvanize	_	0.48	+ 1.06	10.3	<u> </u>	Duration of pumpinghrs + min	2		2	
at Metre	Fresh	l of Water Sulphur			Fibreglas:	3				Final water level end	3		3	
Gas Other:	Salty	Minerals		Galvanize	_					of pumpingmetres Recommended pump	4		4	
m Curier.	Fresh	Sulphur			Fibreglass					type. ☐Shallow ☐ Deep	1	1 10	fe	1
Gas Other:	Salty	Minerals		Galvanize	Concrete ed					Recommended pump depthmetres	No	779	5	
m m	Fresh Salty	Sulphur	^ · · · ·			Screen				Recommended pump rate.	10		10	
Gas Other:		Minerals	Outside diam	Steel Plastic	∏Fibreglas: □Concrete	Slot No.			ll-	(litres/min) If flowing give rate -	15 20		15 20	
After test of	f well yield, v nd sediment			Galvanize	_				-	(litres/min) If pumping discontin-	25 30		25 30	
Other, s	specify				No	Casing or Sc	reen			ued, give reason.	40		40	
Chlorinated	Yes	□No	15.27	X Open hol	е		10,36	18.0)8		50 60		50 60	
	Plugg	ing and Se		ord	Annul	· U	Abandonment			Location	of Wel	Ī		
Depth set at From	t - Metres To	laterial and typ	e (bentonite	slurry, neat ce	ement slum		me Placed ic metres)		m below s north by a	how distances of well fi rrow.	om road	d, lot line, a	ind bu	ilding.
1.21	0	Cru	shed inite S	Stone	<u>•</u>	14	n 7					1		
10,36	1.21	Deni	inite j	lurry		172	2 117	ン1						
												2	1	
												3	i	
Cable To	ol		lethod of		ion Diamond		Digging			; par	KJ.	- 75		
Rotary (c	conventional) everse)	Air perd Boring	cussion		Jetting Driving		Other			ivell par	pr	ea	٠	
	,			er Use						<u> </u>				
Domestic	;	☐ Industria		لبيا	Public Sup Not used	ply [Other		Dw	yer Hill Rol				
Irrigation		Municip		tus of Wel		air conditioning		Audit No	Z	14870 Dar	e Well	Completed		MM 1 1/2
Water Su	=	Recharge we	əll		Jnfinished		loned, (Other)		well owned?	or o mioninadon	te Delive	ered yy	/ YY	MM DD
Observati Test Hol		Abandoned,	poor quality	<u></u>	Dewatering Replaceme	nt well		Lpuonage	JOHVOIGU!		o Onli	200	<u>اي ر</u> 	7 1/2
Name of We	Il Contractor		tractor/Tee	chnician I		vell Contractor's	Licence No.	Data Sou	urce	Ministry Us	e Only ntractor			0
Name of We Business Ad	dress (street	t name, numb	er, city etc.)			7148		Date Rec	eived v	ryyyMM DD Dat	te of Insi	pection YY	4	MM DD
50	Steaci	last, name, f	. Kein	ata c	~//~	/ell Technician's	Licence No.	Date Rec		1 2006		rd Number		
A160	make /	uples	o. name)			T-327	5	remarks	,	vve	ıı rvecor	a Mullipel		
Signature of	J eo moran	Contractor					08 31							
′19/03	 B)		Con	tractor's Co	рру 🔲 🛚	linistry's Copy	☐ Well Ow	ner's Copy	′ 🗆	Cette fe	ormule	est dispor	nible (en français

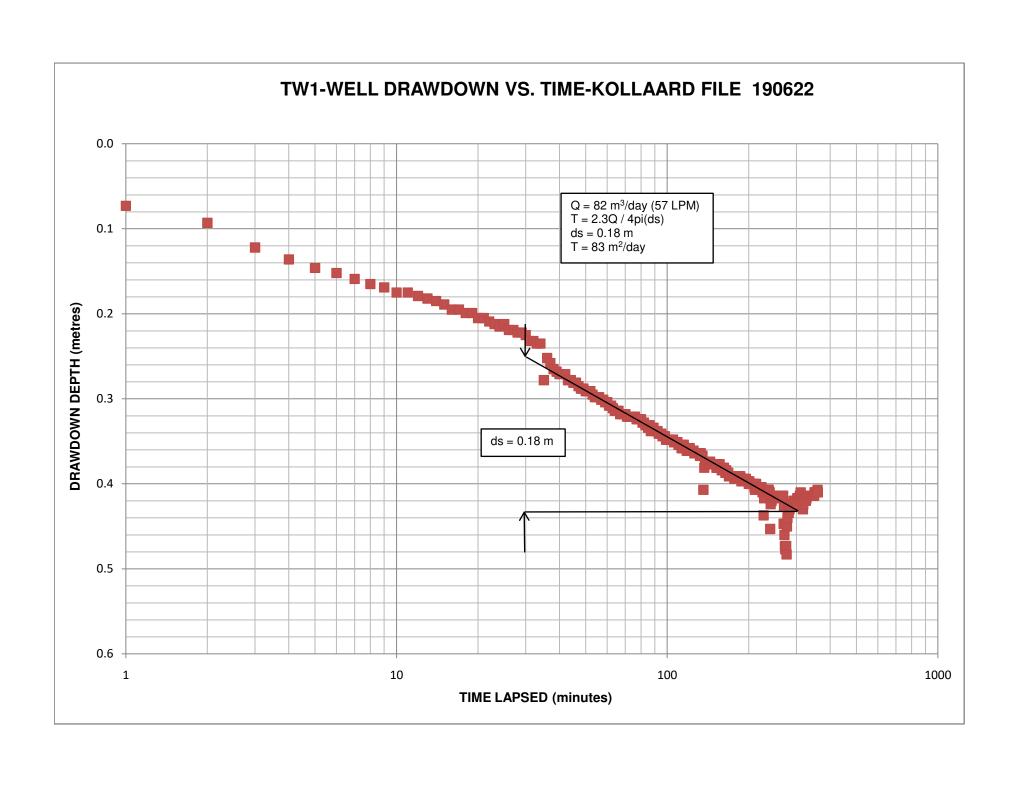
			: 05-1120-993-3000		RE	C	OF	₹D						TW-	6					EET 1 OF 2	
			N: See Site Plan R HAMMER, 64kg; DROP, 760mm						BC	IRING	JATE:	July 12	2006		PE	NETRA	TION T	EST HA		TUM: Geodetic , 64kg; DROP, 76	
			SOIL PROFILE			Tsa	MPL	ES	DYNAM	AIC PEN	ETRATI BLOWS	NC	`	HYDR	AULIC C	CONDUC					
ES	FTHO	-	SUCFROFICE	b	[RESIS				۷,	1(k, cm/s 2° ⁶ 1		0 ⁻⁴ 1	10 ⁻³	STENG STENG	PIEZOMETE OR	R
METRES	BORING METHOD	ECKING M	DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAF Cu, kP	STRE			Q - 0 U - 0	VV		ONTENT	PERCE		ADDITIONAL LAB. TESTING	STANDPIPE INSTALLATIO	
0		1	GROUND SURFACE		126.2				2	Y								<u> </u>			
1			Loose brown TOPSOIL		0.00									;							
			Grey SAND		125.00 1.21																(4. A.)
2																				Ž	\$1,51,6
3			Grey CLAY		123.54 2.74															Silica Sand	(T)
4																					3,85,8
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					116.	2	-			ļ		ļ				ļ					
10			Medium grey and white SANDSTONE BEDROCK		3.9																
11																					
12																					
13																				Silica Sand	NAT AND
																				32mm Diam DUC	
14																				32mm Diam. PVC #10 Slot Screen (6.1m)	往往
15	<u>.</u>	.L	CONTINUED NEXT PAGE	╁	1-	- -	+	-	-	 	-	+	+-	 		+	-	†- -	╁-		ıΞ

7148

z 54870

SEP 2 1 2006

ATTACHMENT B PUMPING TEST DATA FOR TW1



Kollaard File 190622 Pump Rate 56.8 litres/minute

D	R	Α	WD	O١	NΝ	DATA	TW1	

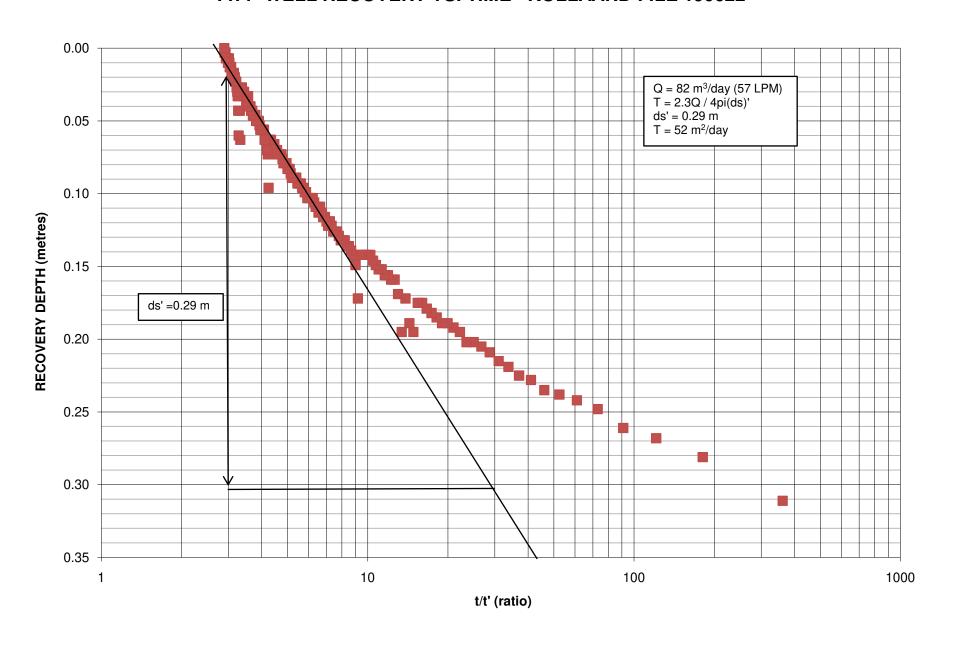
Time Lapsed	Abs Pres	Temp	Water Level	Drawdown
(minutes)	(kPa)	(°C)	(m)	(m)
0	252.955	8.68	-2.3	0.00
1 2	252.24 252.046	8.68 8.68	-2.373 -2.393	0.07 0.09
3	251.754	8.68	-2.422	0.12
4	251.624	8.68	-2.436	0.14
5	251.526	8.68	-2.446	0.15
6	251.461	8.68	-2.452	0.15
7 8	251.397 251.332	8.68 8.68	-2.459 -2.465	0.16 0.17
9	251.332	8.68	-2.469	0.17
10	251.234	8.68	-2.475	0.18
11	251.234	8.68	-2.475	0.18
12	251.202	8.68	-2.479	0.18
13	251.169	8.68	-2.482	0.18
14	251.137	8.68	-2.485	0.19
15 16	251.104 251.04	8.68 8.68	-2.489 -2.495	0.19 0.20
17	251.04	8.68	-2.495	0.20
18	251.007	8.68	-2.499	0.20
19	251.007	8.68	-2.499	0.20
20	250.942	8.68	-2.505	0.21
21	250.942	8.68	-2.505	0.21
22 23	250.91 250.877	8.68	-2.509 -2.512	0.21 0.21
23	250.877 250.845	8.68 8.68	-2.512 -2.515	0.21
24 25	250.845	8.68	-2.515 -2.512	0.22
26	250.812	8.68	-2.519	0.22
27	250.812	8.68	-2.519	0.22
28	250.78	8.68	-2.522	0.22
29	250.78	8.68	-2.522	0.22
30 31	250.747 250.683	8.68 8.68	-2.525 -2.532	0.23 0.23
32	250.683	8.68	-2.532	0.23
33	250.65	8.68	-2.535	0.24
34	250.65	8.68	-2.535	0.24
35	250.228	8.68	-2.578	0.28
36	250.488	8.68	-2.552	0.25
37	250.423	8.68	-2.558	0.26
38 39	250.358 250.326	8.68 8.68	-2.565 -2.568	0.27 0.27
40	250.293	8.68	-2.571	0.27
41	250.293	8.68	-2.571	0.27
42	250.293	8.68	-2.571	0.27
43	250.228	8.68	-2.578	0.28
44	250.228	8.68	-2.578	0.28
45 46	250.196 250.196	8.68 8.68	-2.581 -2.581	0.28 0.28
47	250.163	8.68	-2.585	0.29
48	250.131	8.68	-2.588	0.29
49	250.131	8.68	-2.588	0.29
50	250.098	8.68	-2.591	0.29
51	250.098	8.68	-2.591	0.29
52 53	250.098 250.066	8.68 8.68	-2.591 -2.595	0.29 0.30
54	250.034	8.68	-2.598	0.30
55	250.034	8.68	-2.598	0.30
56	250.034	8.68	-2.598	0.30
57	250.001	8.68	-2.601	0.30
58	250.001	8.68	-2.601	0.30
59 60	249.969 249.969	8.68 8.68	-2.604 -2.604	0.30 0.30
61	249.936	8.68	-2.604	0.31
62	249.936	8.68	-2.608	0.31
63	249.904	8.68	-2.611	0.31
64	249.871	8.68	-2.614	0.31
65	249.871	8.68	-2.614	0.31
66 67	249.871 249.839	8.68 8.68	-2.614 -2.618	0.31 0.32
68	249.839	8.68	-2.618 -2.618	0.32
69	249.839	8.68	-2.618	0.32
70	249.839	8.68	-2.618	0.32
71	249.806	8.68	-2.621	0.32
72	249.806	8.68	-2.621	0.32
73	249.806	8.68	-2.621	0.32
74 75	249.806 249.806	8.68 8.68	-2.621 -2.621	0.32 0.32
75 76	249.806	8.68	-2.621	0.32
77	249.774	8.68	-2.624	0.32
78	249.774	8.68	-2.624	0.32
79	249.774	8.68	-2.624	0.32
80	249.774	8.68	-2.624	0.32
81	249.741	8.68	-2.628	0.33
82 83	249.741 249.709	8.68 8.68	-2.628 -2.631	0.33 0.33
84	249.709	8.68	-2.631	0.33
85	249.677	8.68	-2.634	0.33
86	249.709	8.68	-2.631	0.33

87	249.644	8.68	-2.638	0.34
88	249.677	8.68	-2.634	0.33
89	249.677	8.68	-2.634	0.33
90	249.644	8.68	-2.638	0.34
91	249.644	8.68	-2.638	0.34
92	249.644	8.68	-2.638	0.34
93	249.612	8.68	-2.641	0.34
94	249.612	8.68	-2.641	0.34
95	249.612	8.68	-2.641	0.34
96	249,579	8.68	-2.644	0.34
97	249.579	8.68	-2.644	0.34
98	249.579	8.68	-2.644	0.34
99	249.547	8.68	-2.648	0.35
100	249.547	8.68	-2.648	0.35
101	249.547	8.68	-2.648	0.35
102	249.547	8.68	-2.648	0.35
103	249.547	8.68	-2.648	0.35
104	249.547	8.68	-2.648	0.35
105	249.547	8.68	-2.648	0.35
106	249.514	8.68	-2.651	0.35
107	249.514	8.68	-2.651	0.35
108	249.514	8.68	-2.651	0.35
109	249.514	8.68	-2.651	0.35
110	249.482	8.68	-2.654	0.35
111	249.482	8.68	-2.654	0.35
112	249.482	8.68	-2.654	0.35
113	249,449	8.68	-2.658	0.36
114	249.449	8.68	-2.658	0.36
115	249.482	8.68	-2.654	0.35
116	249.449	8.68	-2.658	0.36
117	249.449	8.68	-2.658	0.36
118	249.417	8.68	-2.661	0.36
119	249.417	8.68	-2.661	0.36
120	249.417	8.68	-2.661	0.36
121	249.449	8.68	-2.658	0.36
122	249.417	8.68	-2.661	0.36
123	249.417	8.68	-2.661	0.36
124	249.417	8.68	-2.661	0.36
125	249.417	8.68	-2.661	0.36
126	249.385	8.68	-2.664	0.36
127	249.385	8.68	-2.664	0.36
128	249.385	8.68	-2.664	0.36
129	249.385	8.68	-2.664	0.36
	249.385			
130		8.68	-2.664	0.36
131	249.385	8.68	-2.664	0.36
132	249.352	8.68	-2.667	0.37
133	249.385	8.68	-2.664	0.36
134	249.352	8.68	-2.667	0.37
135	249.352	8.68	-2.667	0.37
136	248.963	8.68	-2.707	0.41
137	249,222	8.68	-2.681	0.38
138	249.227	8.68	-2.674	0.37
139	249.255	8.68	-2.677	0.38
140	249.287	8.68	-2.674	0.37
141	249.255	8.68	-2.677	0.38
142	249.287	8.68	-2.674	0.37
143	249.255	8.68	-2.677	0.38
144	249.287	8.68	-2.674	0.37
145	249,255	8.68	-2.677	0.38
146	249.255	8.68	-2.677	0.38
147	249.255			
		8.68	-2.677	0.38
148	249.255	8.68	-2.677	0.38
149	249.255	8.68	-2.677	0.38
150	249.255	8.68	-2.677	0.38
151	249.255	8.68	-2.677	0.38
152	249.222	8.68	-2.681	0.38
153	249.222	8.68	-2.681	0.38
154	249.222	8.68	-2.681	0.38
155	249.255	8.68	-2.677	0.38
156	249.255	8.68	-2.677	0.38
157	249.222	8.68	-2.681	0.38
	249.222		-2.681	
158	-	8.68		0.38
159	249.19	8.68	-2.684	0.38
160	249.222	8.68	-2.681	0.38
161	249.19	8.68	-2.684	0.38
162	249.222	8.68	-2.681	0.38
163	249.19	8.68	-2.684	0.38
164	249.157	8.68	-2.687	0.39
165	249.19	8.68	-2.684	0.38
166	249.157	8.68	-2.687	0.39
167	249.157	8.68	-2.687	0.39
168	249.157	8.68	-2.687	0.39
169	249.125	8.68	-2.691	0.39
170	249.125	8.68	-2.691	0.39
171	249.125	8.68	-2.691	0.39
172	249.125	8.68	-2.691	0.39
173	249.125	8.68	-2.691	0.39
174	249.125	8.68	-2.691	0.39
175	249.125	8.68	-2.691	0.39
176	249.125	8.68	-2.691	0.39
177	249.092	8.68	-2.694	0.39
178	249.125	8.68	-2.691	0.39
179	249.125	8.68	-2.691	0.39

180	249.092	8.68	-2.694	0.39
181	249.125	8.68	-2.691	0.39
182	249.092	8.68	-2.694	0.39
183	249.125	8.68	-2.691	0.39
184	249.125	8.68	-2.691	0.39
185	249.092	8.68	-2.694	0.39
186	249.125	8.68	-2.691	0.39
187	249.092	8.68	-2.694	0.39
188	249.06	8.68	-2.697	0.40
189	249.092	8.68	-2.694	0.39
190	249.092	8.68	-2.694	0.39
191	249.06	8.68	-2.697	0.40
192	249.092	8.68	-2.694	0.39
193	249.06	8.68	-2.697	0.40
194	249.06	8.68	-2.697	0.40
195	249.092	8.68	-2.694	0.39
196	249.06	8.68	-2.697	0.40
197	249.06	8.68	-2.697	0.40
198	249.06	8.68	-2.697	0.40
199	249.06	8.68	-2.697	0.40
200	249.028	8.68	-2.7	0.40
201	249.06	8.68	-2.697	0.40
202	249.028	8.68	-2.7	0.40
203	249.028	8.68	-2.7	0.40
204	249.028	8.68	-2.7	0.40
205	249.028	8.68		0.40
			-2.7	
206	249.028	8.68	-2.7	0.40
207	249.028	8.68	-2.7	0.40
208	249.028	8.68	-2.7	0.40
209	249.028	8.68	-2.7	0.40
210	248.995	8.68	-2.704	0.40
			-	
211	248.963	8.68	-2.707	0.41
212	249.028	8.68	-2.7	0.40
213	249.028	8.68	-2.7	0.40
214	248.995	8.68	-2.704	0.40
215	248.995	8.68	-2.704	0.40
216	248.995	8.68	-2.704	0.40
			-2.704	
217	248.995	8.68	-	0.40
218	248.995	8.68	-2.704	0.40
219	248.995	8.68	-2.704	0.40
220	248.995	8.68	-2.704	0.40
221	248.963	8.68	-2.707	0.41
222	248,995	8.68	-2.704	0.40
	248.995		-	0.40
223		8.68	-2.704	
224	248.963	8.68	-2.707	0.41
225	248.93	8.68	-2.71	0.41
226	248.963	8.68	-2.707	0.41
227	248.671	8.68	-2.737	0.44
228	248.865	8.68	-2.717	0.42
229	248.93			0.41
		8.68	-2.71	
230	248.93	8.68	-2.71	0.41
231	248.898	8.68	-2.714	0.41
232	248.93	8.68	-2.71	0.41
233	248.93	8.68	-2.71	0.41
234	248.963	8.68	-2.707	0.41
235	248.963	8.68	-2.707	0.41
236	248.93	8.68	-2.71	0.41
237	248.963	8.68	-2.707	0.41
238	248.93	8.68	-2.71	0.41
239	248.93	8.68	-2.71	0.41
240	248.508	8.68	-2.753	0.45
241	248.8	8.68	-2.724	0.42
				0.42
242	248.865	8.68	-2.717	
243	248.833	8.68	-2.72	0.42
244	248.865	8.68	-2.717	0.42
245	248.865	8.68	-2.717	0.42
246	248.898	8.68	-2.714	0.41
247	248.865	8.68	-2.717	0.42
248	248.865	8.68	-2.717	0.42
249	248.865	8.68	-2.717	0.42
250	248.865	8.68	-2.717	0.42
251	248.898	8.68	-2.714	0.41
252	248.865	8.68	-2.717	0.42
253	248.898	8.68	-2.714	0.41
254	248.865	8.68	-2.717	0.42
255	248.898	8.68	-2.714	0.41
256	248.865	8.68	-2.717	0.42
257	248.898	8.68	-2.714	0.41
258	248.865	8.68	-2.717	0.42
259	248.865	8.68	-2.717	0.42
260	248.865	8.68	-2.717	0.42
261	248.898	8.68	-2.714	0.41
262	248.865	8.68	-2.717	0.42
263	248.865	8.68	-2.717	0.42
264	248.865	8.68	-2.717	0.42
265	248.898	8.68	-2.714	0.41
266	248.898	8.68	-2.714	0.41
267	248.898	8.68	-2.714	0.41
268	248.898	8.68	-2.714	0.41
269			2 747	0.45
	248.573	8.68	-2.747	0.45
270	248.573 248.768	8.68	-2.747	0.43
270 271			-2.727	
271	248.768 248.444	8.68 8.68	-2.727 -2.76	0.43 0.46
	248.768	8.68	-2.727	0.43

273 248.281 8.68 2.777 0.48 274 248.573 8.68 2.773 0.45 275 248.216 8.68 2.733 0.48 277 248.518 8.68 2.73 0.45 278 248.638 8.68 2.74 0.44 279 248.788 8.68 2.73 0.43 280 248.788 8.68 2.73 0.43 281 248.798 8.68 2.73 0.43 282 248.786 8.68 2.73 0.43 283 248.788 8.68 2.777 0.43 284 248.768 8.68 2.777 0.43 285 248.8 8.68 2.774 0.42 286 248.8 8.68 2.774 0.42 286 248.8 8.68 2.774 0.42 286 248.8 8.68 2.774 0.42 289 248.8 8.68					
274					٠
275					
276	274	248.573	8.68	-2.747	0.45
277	275	248.314	8.68	-2.773	0.47
277	276	248.216	8.68	-2.783	0.48
278 248,638 8,68 -2,74 0.44 279 248,703 8,68 -2,734 0.43 281 248,703 8,68 -2,773 0.43 282 248,736 8,68 -2,773 0.43 283 248,736 8,68 -2,773 0.43 284 248,788 8,68 -2,727 0.43 285 248,88 8,68 -2,727 0.43 286 248,768 8,68 -2,727 0.43 287 248,768 8,68 -2,727 0.42 290 248,8 8,68 -2,772 0.42 291 248,8 8,68 -2,772 0.42 292 248,768 8,68 -2,772 0.42 293 248,833 8,68 -2,772 0.42 294 248,83 8,68 -2,772 0.42 295 248,833 8,68 -2,772 0.42 296 248,833					
279					
280					
281	279	248.703	8.68	-2.734	0.43
282	280	248.768	8.68	-2.727	0.43
282	281	248.703	8.68	-2.734	0.43
283 248,768 8,68 -2,727 0,43 285 248,8 8,68 -2,727 0,43 286 248,768 8,68 -2,727 0,43 287 248,768 8,68 -2,727 0,43 288 248,8 8,68 -2,727 0,42 289 248,8 8,68 -2,724 0,42 290 248,8 8,68 -2,724 0,42 291 248,8 8,68 -2,724 0,42 292 248,83 8,68 -2,772 0,42 293 248,833 8,68 -2,772 0,42 295 248,833 8,68 -2,772 0,42 295 248,833 8,68 -2,772 0,42 295 248,833 8,68 -2,772 0,42 296 248,833 8,68 -2,772 0,42 298 248,833 8,68 -2,772 0,42 298 248,833	-				
284 248.768 8.68 -2.724 0.42 286 248.768 8.68 -2.727 0.43 287 248.768 8.68 -2.727 0.43 288 248.8 8.68 -2.724 0.42 289 248.8 8.68 -2.724 0.42 290 248.8 8.68 -2.724 0.42 291 248.8 8.68 -2.724 0.42 292 248.768 8.68 -2.724 0.42 292 248.78 8.68 -2.727 0.42 292 248.833 8.68 -2.72 0.42 294 248.833 8.68 -2.72 0.42 295 248.833 8.68 -2.72 0.42 296 248.833 8.68 -2.72 0.42 297 248.833 8.68 -2.72 0.42 298 248.833 8.68 -2.72 0.42 299 248.833 <					
285					
286 248.768 8.68 -2.727 0.43 287 248.768 8.68 -2.724 0.42 289 248.8 8.68 -2.724 0.42 290 248.8 8.68 -2.724 0.42 291 248.8 8.68 -2.724 0.42 292 248.768 8.68 -2.727 0.43 293 248.833 8.68 -2.772 0.42 294 248.8 8.68 -2.772 0.42 295 248.833 8.68 -2.72 0.42 296 248.833 8.68 -2.72 0.42 297 248.833 8.68 -2.72 0.42 298 248.833 8.68 -2.72 0.42 299 248.833 8.68 -2.72 0.42 300 248.833 8.68 -2.71 0.42 301 248.833 8.68 -2.71 0.42 302 248.855 <	284	248.768	8.68	-2.727	0.43
287 248.768 8.68 -2.727 0.42 288 248.8 8.68 -2.724 0.42 290 248.8 8.68 -2.774 0.42 291 248.8 8.68 -2.724 0.42 292 248.768 8.68 -2.727 0.43 294 248.8 8.68 -2.72 0.42 295 248.833 8.68 -2.72 0.42 296 248.833 8.68 -2.72 0.42 297 248.833 8.68 -2.72 0.42 298 248.833 8.68 -2.72 0.42 299 248.833 8.68 -2.72 0.42 300 248.833 8.68 -2.72 0.42 301 248.853 8.68 -2.71 0.42 302 248.853 8.68 -2.71 0.42 303 248.865 8.68 -2.717 0.42 304 248.865 <td< td=""><td>285</td><td>248.8</td><td>8.68</td><td>-2.724</td><td>0.42</td></td<>	285	248.8	8.68	-2.724	0.42
287 248.768 8.68 -2.727 0.42 288 248.8 8.68 -2.724 0.42 290 248.8 8.68 -2.774 0.42 291 248.8 8.68 -2.724 0.42 292 248.768 8.68 -2.727 0.43 294 248.8 8.68 -2.72 0.42 295 248.833 8.68 -2.72 0.42 296 248.833 8.68 -2.72 0.42 297 248.833 8.68 -2.72 0.42 298 248.833 8.68 -2.72 0.42 299 248.833 8.68 -2.72 0.42 300 248.833 8.68 -2.72 0.42 301 248.853 8.68 -2.71 0.42 302 248.853 8.68 -2.71 0.42 303 248.865 8.68 -2.717 0.42 304 248.865 <td< td=""><td>286</td><td>248 768</td><td>8 68</td><td>-2 727</td><td>0.43</td></td<>	286	248 768	8 68	-2 727	0.43
288 248.8 8.68 -2.724 0.42 290 248.8 8.68 -2.724 0.42 290 248.8 8.68 -2.774 0.42 291 248.8 8.68 -2.777 0.43 292 248.768 8.68 -2.772 0.42 293 248.833 8.68 -2.772 0.42 295 248.833 8.68 -2.72 0.42 296 248.833 8.68 -2.72 0.42 297 248.833 8.68 -2.72 0.42 298 248.833 8.68 -2.72 0.42 299 248.833 8.68 -2.72 0.42 300 248.833 8.68 -2.71 0.42 301 248.833 8.68 -2.71 0.42 301 248.833 8.68 -2.71 0.42 301 248.833 8.68 -2.71 0.42 301 248.865 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
289 248.8 8.68 -2.724 0.42 290 248.8 8.68 -2.724 0.42 291 248.8 8.68 -2.724 0.42 292 248.768 8.68 -2.724 0.42 293 248.833 8.68 -2.72 0.42 295 248.833 8.68 -2.72 0.42 296 248.833 8.68 -2.72 0.42 297 248.833 8.68 -2.72 0.42 298 248.833 8.68 -2.72 0.42 299 248.833 8.68 -2.72 0.42 300 248.833 8.68 -2.72 0.42 301 248.853 8.68 -2.71 0.42 302 248.853 8.68 -2.717 0.42 303 248.865 8.68 -2.717 0.42 304 248.865 8.68 -2.717 0.42 305 248.865					
290 248.8 8.68 -2.724 0.42 291 248.768 8.68 -2.727 0.43 292 248.768 8.68 -2.727 0.43 294 248.8 8.68 -2.72 0.42 295 248.833 8.68 -2.72 0.42 296 248.833 8.68 -2.72 0.42 297 248.833 8.68 -2.72 0.42 298 248.833 8.68 -2.72 0.42 299 248.833 8.68 -2.72 0.42 300 248.833 8.68 -2.72 0.42 301 248.833 8.68 -2.71 0.42 301 248.855 8.68 -2.71 0.42 303 248.855 8.68 -2.717 0.42 304 248.865 8.68 -2.717 0.42 305 248.865 8.68 -2.717 0.42 306 248.865					-
291 248.88 8.68 -2.774 0.42 292 248.833 8.68 -2.772 0.42 294 248.83 8.68 -2.772 0.42 295 248.833 8.68 -2.72 0.42 296 248.833 8.68 -2.72 0.42 297 248.833 8.68 -2.72 0.42 298 248.833 8.68 -2.72 0.42 299 248.833 8.68 -2.72 0.42 300 248.833 8.68 -2.72 0.42 301 248.833 8.68 -2.71 0.42 301 248.853 8.68 -2.717 0.42 302 248.865 8.68 -2.717 0.42 303 248.865 8.68 -2.717 0.42 304 248.865 8.68 -2.717 0.42 305 248.865 8.68 -2.717 0.42 306 248.865	289	248.8	8.68	-2.724	0.42
292 248.833 8.68 -2.727 0.42 293 248.833 8.68 -2.724 0.42 295 248.833 8.68 -2.72 0.42 296 248.833 8.68 -2.72 0.42 297 248.833 8.68 -2.72 0.42 298 248.833 8.68 -2.72 0.42 299 248.833 8.68 -2.72 0.42 300 248.833 8.68 -2.72 0.42 301 248.833 8.68 -2.71 0.42 302 248.855 8.68 -2.717 0.42 303 248.865 8.68 -2.717 0.42 305 248.865 8.68 -2.717 0.42 305 248.865 8.68 -2.717 0.42 306 248.865 8.68 -2.717 0.42 307 248.865 8.68 -2.717 0.42 308 248.865	290	248.8	8.68	-2.724	0.42
292 248.833 8.68 -2.727 0.42 293 248.833 8.68 -2.724 0.42 295 248.833 8.68 -2.72 0.42 296 248.833 8.68 -2.72 0.42 297 248.833 8.68 -2.72 0.42 298 248.833 8.68 -2.72 0.42 299 248.833 8.68 -2.72 0.42 300 248.833 8.68 -2.72 0.42 301 248.833 8.68 -2.71 0.42 302 248.855 8.68 -2.717 0.42 303 248.865 8.68 -2.717 0.42 305 248.865 8.68 -2.717 0.42 305 248.865 8.68 -2.717 0.42 306 248.865 8.68 -2.717 0.42 307 248.865 8.68 -2.717 0.42 308 248.865	291	248.8	8.68	-2.724	0.42
293 248.833 8.68 -2.724 0.42 295 248.833 8.68 -2.772 0.42 295 248.833 8.68 -2.772 0.42 296 248.833 8.68 -2.772 0.42 298 248.833 8.68 -2.772 0.42 299 248.833 8.68 -2.772 0.42 300 248.833 8.68 -2.77 0.42 301 248.833 8.68 -2.71 0.42 302 248.865 8.68 -2.717 0.42 304 248.865 8.68 -2.717 0.42 305 248.865 8.68 -2.717 0.42 306 248.865 8.68 -2.717 0.42 307 248.865 8.68 -2.717 0.42 309 248.898 8.68 -2.717 0.42 309 248.898 8.68 -2.714 0.41 311 248.93 <td></td> <td></td> <td></td> <td></td> <td>-</td>					-
294 248.8 8.68 -2.724 0.42 295 248.833 8.68 -2.72 0.42 296 248.833 8.68 -2.72 0.42 297 248.833 8.68 -2.72 0.42 298 248.833 8.68 -2.72 0.42 300 248.833 8.68 -2.72 0.42 301 248.833 8.68 -2.71 0.42 302 248.865 8.68 -2.717 0.42 303 248.865 8.68 -2.717 0.42 305 248.865 8.68 -2.717 0.42 305 248.865 8.68 -2.717 0.42 306 248.865 8.68 -2.717 0.42 307 248.865 8.68 -2.714 0.41 311 248.898 8.68 -2.714 0.41 311 248.898 8.68 -2.714 0.41 313 248.898					
295 248.833 8.68 -2.772 0.42 296 248.833 8.68 -2.772 0.42 297 248.833 8.68 -2.772 0.42 298 248.833 8.68 -2.772 0.42 300 248.833 8.68 -2.772 0.42 300 248.833 8.68 -2.717 0.42 301 248.865 8.68 -2.717 0.42 303 248.865 8.68 -2.717 0.42 304 248.865 8.68 -2.717 0.42 305 248.865 8.68 -2.717 0.42 306 248.865 8.68 -2.717 0.42 307 248.865 8.68 -2.717 0.42 309 248.898 8.68 -2.714 0.41 311 248.93 8.68 -2.714 0.41 311 248.898 8.68 -2.714 0.41 311 248.898<	293	248.833	8.68		
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297 248.833 8.68 -2.72 0.42 298 248.833 8.68 -2.72 0.42 299 248.833 8.68 -2.72 0.42 300 248.865 8.68 -2.717 0.42 301 248.865 8.68 -2.717 0.42 302 248.865 8.68 -2.717 0.42 304 248.865 8.68 -2.717 0.42 305 248.865 8.68 -2.717 0.42 306 248.865 8.68 -2.717 0.42 308 248.865 8.68 -2.717 0.42 308 248.895 8.68 -2.714 0.41 311 248.893 8.68 -2.714 0.41 311 248.893 8.68 -2.714 0.41 311 248.898 8.68 -2.714 0.41 311 248.898 8.68 -2.714 0.41 311 248.898 <td>295</td> <td>248.833</td> <td>8.68</td> <td>-2.72</td> <td>0.42</td>	295	248.833	8.68	-2.72	0.42
297 248.833 8.68 -2.72 0.42 298 248.833 8.68 -2.72 0.42 299 248.833 8.68 -2.72 0.42 300 248.865 8.68 -2.717 0.42 301 248.865 8.68 -2.717 0.42 302 248.865 8.68 -2.717 0.42 304 248.865 8.68 -2.717 0.42 305 248.865 8.68 -2.717 0.42 306 248.865 8.68 -2.717 0.42 308 248.865 8.68 -2.717 0.42 308 248.895 8.68 -2.714 0.41 311 248.893 8.68 -2.714 0.41 311 248.893 8.68 -2.714 0.41 311 248.898 8.68 -2.714 0.41 311 248.898 8.68 -2.714 0.41 311 248.898 <td>296</td> <td>248 833</td> <td>8 68</td> <td>-2 72</td> <td>0.42</td>	296	248 833	8 68	-2 72	0.42
298 248.833 8.68 -2.772 0.42 299 248.833 8.68 -2.772 0.42 300 248.833 8.68 -2.772 0.42 301 248.865 8.68 -2.717 0.42 302 248.865 8.68 -2.717 0.42 304 248.865 8.68 -2.717 0.42 305 248.865 8.68 -2.717 0.42 306 248.865 8.68 -2.717 0.42 307 248.865 8.68 -2.717 0.42 308 248.895 8.68 -2.714 0.41 310 248.898 8.68 -2.714 0.41 311 248.898 8.68 -2.714 0.41 311 248.898 8.68 -2.714 0.41 311 248.898 8.68 -2.714 0.41 315 248.898 8.68 -2.714 0.41 317 248.796					
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300					-
301	299	248.833	8.68	-2.72	0.42
302 248.865 8.68 -2.717 0.42 303 248.865 8.68 -2.717 0.42 304 248.865 8.68 -2.717 0.42 305 248.865 8.68 -2.717 0.42 306 248.865 8.68 -2.717 0.42 307 248.865 8.68 -2.717 0.42 308 248.895 8.68 -2.714 0.41 310 248.898 8.68 -2.714 0.41 311 248.93 8.68 -2.714 0.41 311 248.898 8.68 -2.714 0.41 312 248.898 8.68 -2.714 0.41 314 248.898 8.68 -2.714 0.41 315 248.898 8.68 -2.714 0.41 316 248.898 8.68 -2.714 0.41 317 248.83 8.68 -2.714 0.41 316 248.898 </td <td>300</td> <td>248.833</td> <td>8.68</td> <td>-2.72</td> <td>0.42</td>	300	248.833	8.68	-2.72	0.42
302 248.865 8.68 -2.717 0.42 303 248.865 8.68 -2.717 0.42 304 248.865 8.68 -2.717 0.42 305 248.865 8.68 -2.717 0.42 306 248.865 8.68 -2.717 0.42 307 248.865 8.68 -2.717 0.42 308 248.895 8.68 -2.714 0.41 310 248.898 8.68 -2.714 0.41 311 248.93 8.68 -2.714 0.41 311 248.898 8.68 -2.714 0.41 312 248.898 8.68 -2.714 0.41 314 248.898 8.68 -2.714 0.41 315 248.898 8.68 -2.714 0.41 316 248.898 8.68 -2.714 0.41 317 248.83 8.68 -2.714 0.41 316 248.898 </td <td>301</td> <td>248 833</td> <td>8 68</td> <td>-2 72</td> <td>0.42</td>	301	248 833	8 68	-2 72	0.42
303 248.865 8.68 -2.717 0.42 304 248.865 8.68 -2.717 0.42 305 248.865 8.68 -2.717 0.42 306 248.865 8.68 -2.717 0.42 307 248.865 8.68 -2.717 0.42 308 248.898 8.68 -2.714 0.41 310 248.898 8.68 -2.714 0.41 311 248.993 8.68 -2.714 0.41 312 248.898 8.68 -2.714 0.41 313 248.898 8.68 -2.714 0.41 315 248.898 8.68 -2.714 0.41 315 248.898 8.68 -2.714 0.41 315 248.898 8.68 -2.714 0.41 316 248.898 8.68 -2.714 0.41 317 248.365 8.68 -2.714 0.42 320 248.865					
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305 248.865 8.68 -2.717 0.42 306 248.865 8.68 -2.717 0.42 307 248.865 8.68 -2.717 0.42 308 248.865 8.68 -2.714 0.41 309 248.898 8.68 -2.714 0.41 310 248.898 8.68 -2.714 0.41 311 248.93 8.68 -2.714 0.41 311 248.898 8.68 -2.714 0.41 312 248.898 8.68 -2.714 0.41 313 248.898 8.68 -2.714 0.41 315 248.898 8.68 -2.714 0.41 315 248.898 8.68 -2.714 0.41 317 248.398 8.68 -2.714 0.41 317 248.898 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 323 248.865<				-2.717	
306 248.865 8.68 -2.717 0.42 307 248.865 8.68 -2.717 0.42 308 248.896 8.68 -2.714 0.41 309 248.898 8.68 -2.714 0.41 310 248.898 8.68 -2.714 0.41 311 248.898 8.68 -2.714 0.41 312 248.898 8.68 -2.714 0.41 313 248.898 8.68 -2.714 0.41 315 248.898 8.68 -2.714 0.41 316 248.898 8.68 -2.714 0.41 317 248.736 8.68 -2.714 0.41 317 248.865 8.68 -2.774 0.42 319 248.865 8.68 -2.771 0.42 320 248.865 8.68 -2.717 0.42 321 248.865 8.68 -2.717 0.42 322 248.865	304	248.865	8.68	-2.717	0.42
307 248.865 8.68 -2.717 0.42 308 248.865 8.68 -2.714 0.41 309 248.898 8.68 -2.714 0.41 310 248.898 8.68 -2.714 0.41 311 248.93 8.68 -2.714 0.41 312 248.898 8.68 -2.714 0.41 313 248.898 8.68 -2.714 0.41 314 248.898 8.68 -2.714 0.41 315 248.898 8.68 -2.714 0.41 316 248.898 8.68 -2.714 0.41 315 248.898 8.68 -2.714 0.41 316 248.898 8.68 -2.714 0.41 317 248.736 8.68 -2.774 0.42 319 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 322 248.865<	305	248.865	8.68	-2.717	0.42
307 248.865 8.68 -2.717 0.42 308 248.865 8.68 -2.714 0.41 309 248.898 8.68 -2.714 0.41 310 248.898 8.68 -2.714 0.41 311 248.93 8.68 -2.714 0.41 312 248.898 8.68 -2.714 0.41 313 248.898 8.68 -2.714 0.41 314 248.898 8.68 -2.714 0.41 315 248.898 8.68 -2.714 0.41 316 248.898 8.68 -2.714 0.41 315 248.898 8.68 -2.714 0.41 316 248.898 8.68 -2.714 0.41 317 248.736 8.68 -2.774 0.42 319 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 322 248.865<	306	248 865	8 68	-2 717	0.42
308 248.865 8.68 -2.717 0.42 309 248.898 8.68 -2.714 0.41 310 248.898 8.68 -2.714 0.41 311 248.898 8.68 -2.714 0.41 312 248.898 8.68 -2.714 0.41 314 248.898 8.68 -2.714 0.41 315 248.898 8.68 -2.714 0.41 316 248.898 8.68 -2.714 0.41 317 248.736 8.68 -2.714 0.41 317 248.736 8.68 -2.717 0.42 328 248.865 8.68 -2.717 0.42 320 248.865 8.68 -2.717 0.42 321 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 3248.893 8.					
309 248.898 8.68 -2.714 0.41 311 248.898 8.68 -2.714 0.41 311 248.898 8.68 -2.714 0.41 312 248.898 8.68 -2.714 0.41 313 248.898 8.68 -2.714 0.41 315 248.898 8.68 -2.714 0.41 316 248.898 8.68 -2.714 0.41 316 248.898 8.68 -2.714 0.41 316 248.898 8.68 -2.714 0.41 317 248.736 8.68 -2.73 0.43 318 248.8 8.68 -2.717 0.42 320 248.865 8.68 -2.717 0.42 321 248.865 8.68 -2.717 0.42 322 248.833 8.68 -2.717 0.42 323 248.833 8.68 -2.714 0.41 325 248.865 <td></td> <td></td> <td></td> <td></td> <td>-</td>					-
310 248.898 8.68 -2.714 0.41 311 248.898 8.68 -2.714 0.41 312 248.898 8.68 -2.714 0.41 313 248.898 8.68 -2.714 0.41 314 248.898 8.68 -2.714 0.41 315 248.898 8.68 -2.714 0.41 316 248.898 8.68 -2.714 0.41 317 248.736 8.68 -2.714 0.41 317 248.736 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 3220 248.865 8.68 -2.717 0.42 3221 248.865 8.68 -2.717 0.42 3221 248.865 8.68 -2.717 0.42 323 248.833 8.68 -2.714 0.41 325 248.833 8.68 -2.714 0.41 325 248.		248.865	8.68	-2./1/	
311 248.898 8.68 -2.714 0.41 312 248.898 8.68 -2.714 0.41 313 248.898 8.68 -2.714 0.41 314 248.898 8.68 -2.714 0.41 315 248.898 8.68 -2.714 0.41 317 248.736 8.68 -2.714 0.41 317 248.736 8.68 -2.717 0.42 318 248.865 8.68 -2.717 0.42 320 248.865 8.68 -2.717 0.42 321 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 328 248.898	309	248.898	8.68	-2.714	0.41
311 248.898 8.68 -2.714 0.41 312 248.898 8.68 -2.714 0.41 313 248.898 8.68 -2.714 0.41 314 248.898 8.68 -2.714 0.41 315 248.898 8.68 -2.714 0.41 317 248.736 8.68 -2.714 0.41 317 248.736 8.68 -2.717 0.42 318 248.865 8.68 -2.717 0.42 320 248.865 8.68 -2.717 0.42 321 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 328 248.898	310	248.898	8.68	-2.714	0.41
312 248.898 8.68 -2.714 0.41 313 248.898 8.68 -2.714 0.41 314 248.898 8.68 -2.714 0.41 315 248.898 8.68 -2.714 0.41 316 248.898 8.68 -2.714 0.41 317 248.736 8.68 -2.73 0.43 318 248.8 8.68 -2.717 0.42 319 248.865 8.68 -2.717 0.42 320 248.865 8.68 -2.717 0.42 321 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 323 248.833 8.68 -2.714 0.41 325 248.865 8.68 -2.717 0.42 326 248.865 <td></td> <td>248 93</td> <td></td> <td></td> <td></td>		248 93			
313 248.898 8.68 -2.714 0.41 315 248.898 8.68 -2.714 0.41 315 248.898 8.68 -2.714 0.41 316 248.898 8.68 -2.714 0.41 317 248.736 8.68 -2.73 0.43 318 248.86 8.68 -2.717 0.42 320 248.865 8.68 -2.717 0.42 321 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.714 0.41 322 248.898 8.68 -2.714 0.41 325 248.898 8.68 -2.714 0.41 326 248.898 8.68 -2.714 0.41 330 248.898 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
314 248.898 8.68 -2.714 0.41 315 248.898 8.68 -2.714 0.41 316 248.898 8.68 -2.714 0.41 317 248.736 8.68 -2.724 0.42 318 248.865 8.68 -2.717 0.42 320 248.865 8.68 -2.717 0.42 321 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 322 248.898 8.68 -2.717 0.42 324 248.898 8.68 -2.714 0.41 325 248.865 8.68 -2.717 0.42 328 248.898 8.68 -2.714 0.41 329 248.898 8.68 -2.714 0.41 331 248.898 8.68 -2.714 0.41 332 248.898					
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316 248.898 8.68 -2.714 0.41 317 248.736 8.68 -2.733 0.43 318 248.8 8.68 -2.717 0.42 319 248.865 8.68 -2.717 0.42 320 248.865 8.68 -2.717 0.42 321 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 323 248.833 8.68 -2.714 0.41 325 248.833 8.68 -2.717 0.42 326 248.865 8.68 -2.717 0.42 326 248.865 8.68 -2.717 0.42 327 248.865 8.68 -2.717 0.42 328 248.898 8.68 -2.714 0.41 330 248.898 8.68 -2.714 0.41 331 248.898 8.68 -2.714 0.41 332 248.898 </td <td>314</td> <td>248.898</td> <td>8.68</td> <td>-2.714</td> <td>0.41</td>	314	248.898	8.68	-2.714	0.41
317 248.736 8.68 -2.73 0.43 318 248.8 8.68 -2.724 0.42 319 248.865 8.68 -2.717 0.42 320 248.865 8.68 -2.717 0.42 321 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 323 248.893 8.68 -2.714 0.41 325 248.833 8.68 -2.714 0.41 325 248.865 8.68 -2.714 0.41 327 248.865 8.68 -2.717 0.42 328 248.898 8.68 -2.714 0.41 329 248.898 8.68 -2.714 0.41 331 248.898 8.68 -2.714 0.41 332 248.898 8.68 -2.714 0.41 331 248.898 8.68 -2.714 0.41 332 248.898 <td>315</td> <td>248.898</td> <td>8.68</td> <td>-2.714</td> <td>0.41</td>	315	248.898	8.68	-2.714	0.41
317 248.736 8.68 -2.73 0.43 318 248.8 8.68 -2.724 0.42 319 248.865 8.68 -2.717 0.42 320 248.865 8.68 -2.717 0.42 321 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 323 248.893 8.68 -2.714 0.41 325 248.833 8.68 -2.714 0.41 325 248.865 8.68 -2.714 0.41 327 248.865 8.68 -2.717 0.42 328 248.898 8.68 -2.714 0.41 329 248.898 8.68 -2.714 0.41 331 248.898 8.68 -2.714 0.41 332 248.898 8.68 -2.714 0.41 331 248.898 8.68 -2.714 0.41 332 248.898 <td>316</td> <td>248 898</td> <td>8 68</td> <td>-2 714</td> <td>0.41</td>	316	248 898	8 68	-2 714	0.41
318 248.8 8.68 -2.724 0.42 319 248.865 8.68 -2.717 0.42 320 248.865 8.68 -2.717 0.42 321 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 323 248.833 8.68 -2.71 0.42 324 248.898 8.68 -2.717 0.42 324 248.895 8.68 -2.717 0.42 325 248.833 8.68 -2.717 0.42 326 248.865 8.68 -2.717 0.42 327 248.865 8.68 -2.714 0.41 329 248.898 8.68 -2.714 0.41 331 248.898 8.68 -2.714 0.41 332 248.898 8.68 -2.714 0.41 333 248.898 8.68 -2.714 0.41 335 248.898 <td></td> <td></td> <td></td> <td></td> <td></td>					
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320 248.865 8.68 -2.717 0.42 321 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 323 248.833 8.68 -2.72 0.42 324 248.898 8.68 -2.714 0.41 325 248.865 8.68 -2.717 0.42 327 248.865 8.68 -2.717 0.42 328 248.898 8.68 -2.714 0.41 329 248.898 8.68 -2.714 0.41 330 248.898 8.68 -2.714 0.41 331 248.898 8.68 -2.714 0.41 332 248.898 8.68 -2.714 0.41 333 248.898 8.68 -2.714 0.41 334 248.898 8.68 -2.714 0.41 335 248.898 8.68 -2.714 0.41 337 248.898<	318	248.8	8.68	-2./24	
321 248.865 8.68 -2.717 0.42 322 248.865 8.68 -2.717 0.42 323 248.833 8.68 -2.72 0.42 324 248.898 8.68 -2.714 0.41 325 248.865 8.68 -2.717 0.42 327 248.865 8.68 -2.714 0.41 328 248.898 8.68 -2.714 0.41 329 248.898 8.68 -2.714 0.41 331 248.898 8.68 -2.714 0.41 332 248.898 8.68 -2.714 0.41 331 248.898 8.68 -2.714 0.41 332 248.898 8.68 -2.714 0.41 333 248.898 8.68 -2.714 0.41 334 248.898 8.68 -2.714 0.41 335 248.898 8.68 -2.714 0.41 336 248.898<	319	248.865	8.68		0.42
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351 248.93 8.68 -2.71 0.41 352 248.93 8.68 -2.71 0.41 353 248.93 8.68 -2.71 0.41 354 248.93 8.68 -2.71 0.41 355 248.93 8.68 -2.71 0.41 356 248.93 8.68 -2.71 0.41 357 248.93 8.68 -2.71 0.41 358 248.93 8.68 -2.71 0.41 359 248.963 8.68 -2.707 0.41					
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353 248.93 8.68 -2.71 0.41 354 248.93 8.68 -2.71 0.41 355 248.93 8.68 -2.71 0.41 356 248.93 8.68 -2.71 0.41 357 248.93 8.68 -2.71 0.41 358 248.93 8.68 -2.71 0.41 359 248.963 8.68 -2.707 0.41					
354 248.93 8.68 -2.71 0.41 355 248.93 8.68 -2.71 0.41 356 248.93 8.68 -2.71 0.41 357 248.93 8.68 -2.71 0.41 358 248.93 8.68 -2.71 0.41 359 248.963 8.68 -2.707 0.41					
355 248.93 8.68 -2.71 0.41 356 248.93 8.68 -2.71 0.41 357 248.93 8.68 -2.71 0.41 358 248.93 8.68 -2.71 0.41 359 248.963 8.68 -2.707 0.41	353	248.93	8.68	-2.71	
355 248.93 8.68 -2.71 0.41 356 248.93 8.68 -2.71 0.41 357 248.93 8.68 -2.71 0.41 358 248.93 8.68 -2.71 0.41 359 248.963 8.68 -2.707 0.41	354	248.93	8.68	-2.71	0.41
356 248.93 8.68 -2.71 0.41 357 248.93 8.68 -2.71 0.41 358 248.93 8.68 -2.71 0.41 359 248.963 8.68 -2.707 0.41					
357 248.93 8.68 -2.71 0.41 358 248.93 8.68 -2.71 0.41 359 248.963 8.68 -2.707 0.41					
358 248.93 8.68 -2.71 0.41 359 248.963 8.68 -2.707 0.41					
359 248.963 8.68 -2.707 0.41					
	358	248.93	8.68	-2.71	0.41
	359	248.963	8.68	-2.707	0.41
, , , , , , , , , , , , , , , , , , , ,					

TW1- WELL RECOVERY VS. TIME - KOLLAARD FILE 190622



Kollaard File190622

RECOVERY DATA TW-1

ť'	t / t'	Abs Pres	Temp	Water Level	Drawdown	Recovery
		(kPa)	(°C)	(m)	(m)	(%)
1	361	249.904	8.68	-2.611	0.31	24%
2	181.0	250.196	8.68	-2.581	0.28	31%
3	121.0	250.326	8.68	-2.568	0.27	34%
4	91.0	250.391	8.68	-2.561	0.26	36%
5	73.0	250.52	8.68	-2.548	0.25	39%
6	61.0	250.585	8.68	-2.542	0.24	41%
7	52.4	250.618	8.68	-2.538	0.24	42%
8	46.0	250.65	8.68	-2.535	0.24	42%
9	41.0	250.715	8.68	-2.528	0.23	44%
10	37.0	250.747	8.68	-2.525	0.23	45%
11	33.7	250.812	8.68	-2.519	0.22	46%
12	31.0	250.845	8.68	-2.515	0.22	47%
13	28.7	250.91	8.68	-2.509	0.21	49%
14	26.7	250.942	8.68	-2.505	0.21	50%
15	25.0	250.975	8.68	-2.502	0.20	50%
16	23.5	250.975	8.68	-2.502	0.20	50%
17	22.2	251.04	8.68	-2.495	0.20	52%
18	21.0	251.072	8.68	-2.492	0.19	53%
19	19.9	251.104	8.68	-2.489	0.19	54%
20	19.0	251.104	8.68	-2.489	0.19	54%
21	18.1	251.137	8.68	-2.485	0.19	55%
22	17.4	251.169	8.68	-2.482	0.18	55%
23	16.7	251.202	8.68	-2.479	0.18	56%
24	16.0	251.234	8.68	-2.475	0.18	57%
25	15.4	251.234	8.68	-2.475	0.18	57%
26	14.8	251.04	8.68	-2.495	0.20	52%
27	14.3	251.104	8.68	-2.489	0.19	54%
28	13.9	251.267	8.68	-2.472	0.17	58%
29	13.4	251.04	8.68	-2.495	0.20	52%
30	13.0	251.299	8.68	-2.469	0.17	58%
31	12.6	251.397	8.68	-2.459	0.16	61%
32	12.3	251.397	8.68	-2.459	0.16	61%
33	11.9	251.429	8.68	-2.456	0.16	62%
34	11.6	251.429	8.68	-2.456	0.16	62%
35	11.3	251.461	8.68	-2.452	0.15	63%
36	11.0	251.461	8.68	-2.452	0.15	63%
37	10.7	251.494	8.68	-2.449	0.15	63%
38	10.5	251.526	8.68	-2.446	0.15	64%
39	10.2	251.559	8.68	-2.442	0.14	65%
40	10.0	251.559	8.68	-2.442	0.14	65%
41	9.8	251.559	8.68	-2.442	0.14	65%
42	9.6	251.559	8.68	-2.442	0.14	65%
43	9.4	251.559	8.68	-2.442	0.14	65%
44	9.2	251.267	8.68	-2.472	0.17	58%
45	9.0	251.494	8.68	-2.449	0.15	63%
46	8.8	251.559	8.68	-2.442	0.14	65%

I	47	8.7	251.591	8.68	-2.439	0.14	66%
	48	8.5	251.624	8.68	-2.436	0.14	67%
	49	8.3	251.624	8.68	-2.436	0.14	67%
	50	8.2	251.656	8.68	-2.432	0.13	68%
	51	8.1	251.656	8.68	-2.432	0.13	68%
	52	7.9	251.656	8.68	-2.432	0.13	68%
	53	7.8	251.689	8.68	-2.429	0.13	68%
	54	7.7	251.721	8.68	-2.426	0.13	69%
	55	7.5	251.721	8.68	-2.426	0.13	69%
	56	7.4	251.721	8.68	-2.426	0.13	69%
	57	7.3	251.754	8.68	-2.422	0.12	70%
	58	7.2	251.786	8.68	-2.419	0.12	71%
	59	7.1	251.754	8.68	-2.422	0.12	70%
	60	7.0	251.786	8.68	-2.419	0.12	71%
	61	6.9	251.819	8.68	-2.416	0.12	71%
	62	6.8	251.819	8.68	-2.416	0.12	71%
	63	6.7	251.851	8.68	-2.413	0.11	72%
	64	6.6	251.883	8.68	-2.409	0.11	73%
	65	6.5	251.851	8.68	-2.413	0.11	72%
	66	6.5	251.883	8.68	-2.409	0.11	73%
	67	6.4	251.883	8.68	-2.409	0.11	73%
	68	6.3	251.916	8.68	-2.406	0.11	74%
	69	6.2	251.948	8.68	-2.403	0.10	75%
	70	6.1	251.948	8.68	-2.403	0.10	75%
	71	6.1	251.948	8.68	-2.403	0.10	75%
	72	6.0	251.948	8.68	-2.403	0.10	75%
	73	5.9	251.948	8.68	-2.403	0.10	75%
	74	5.9	251.981	8.68	-2.399	0.10	76%
	75	5.8	251.981	8.68	-2.399	0.10	76%
	76	5.7	252.013	8.68	-2.396	0.10	76%
	77	5.7	252.013	8.68	-2.396	0.10	76%
	78	5.6	252.046	8.68	-2.393	0.09	77%
	79	5.6	252.046	8.68	-2.393	0.09	77%
	80	5.5	252.046	8.68	-2.393	0.09	77%
	81	5.4	252.046	8.68	-2.393	0.09	77%
	82	5.4	252.078	8.68	-2.389	0.09	78%
	83	5.3	252.078	8.68	-2.389	0.09	78%
	84	5.3	252.078	8.68	-2.389	0.09	78%
	85	5.2	252.078	8.68	-2.389	0.09	78%
	86	5.2	252.078	8.68	-2.389	0.09	78%
	87	5.1	252.111	8.68	-2.386	0.09	79%
	88	5.1	252.143	8.68	-2.383	0.08	80%
	89	5.0	252.143	8.68	-2.383	0.08	80%
	90	5.0	252.143	8.68	-2.383	0.08	80%
	91	5.0	252.176	8.68	-2.379	0.08	81%
	92	4.9	252.176	8.68	-2.379	0.08	81%
	93	4.9	252.176	8.68	-2.379	0.08	81%
	94	4.8	252.176	8.68	-2.379	0.08	81%
	95	4.8	252.208	8.68	-2.376	0.08	81%
	96	4.8	252.24	8.68	-2.373	0.07	82%

97	4.7	252.24	8.68	-2.373	0.07	82%
98	4.7	252.24	8.68	-2.373	0.07	82%
99	4.6	252.24	8.68	-2.373	0.07	82%
100	4.6	252.24	8.68	-2.373	0.07	82%
101	4.6	252.273	8.68	-2.37	0.07	83%
102	4.5	252.24	8.68	-2.373	0.07	82%
103	4.5	252.273	8.68	-2.37	0.07	83%
104	4.5	252.305	8.68	-2.366	0.07	84%
105	4.4	252.305	8.68	-2.366	0.07	84%
106	4.4	252.305	8.68	-2.366	0.07	84%
107	4.4	252.305	8.68	-2.366	0.07	84%
108	4.3	252.338	8.68	-2.363	0.06	85%
109	4.3	252.338	8.68	-2.363	0.06	85%
110	4.3	252.338	8.68	-2.363	0.06	85%
111	4.2	252.013	8.68	-2.396	0.10	76%
112	4.2	252.24	8.68	-2.373	0.07	82%
113	4.2	252.273	8.68	-2.37	0.07	83%
114	4.2	252.338	8.68	-2.363	0.06	85%
115	4.1	252.338	8.68	-2.363	0.06	85%
116	4.1	252.338	8.68	-2.363	0.06	85%
117	4.1	252.403	8.68	-2.356	0.06	86%
118	4.1	252.403	8.68	-2.356	0.06	86%
119	4.0	252.403	8.68	-2.356	0.06	86%
120	4.0	252.403	8.68	-2.356	0.06	86%
121	4.0	252.403	8.68	-2.356	0.06	86%
122	4.0	252.403	8.68	-2.356	0.06	86%
123	3.9	252.435	8.68	-2.353	0.05	87%
124	3.9	252.468	8.68	-2.35	0.05	88%
125	3.9	252.468	8.68	-2.35	0.05	88%
126	3.9	252.468	8.68	-2.35	0.05	88%
127	3.8	252.468	8.68	-2.35	0.05	88%
128	3.8	252.468	8.68	-2.35	0.05	88%
129	3.8	252.5	8.68	-2.346	0.05	89%
130	3.8	252.5	8.68	-2.346	0.05	89%
131	3.7	252.5	8.68	-2.346	0.05	89%
132	3.7	252.5	8.68	-2.346	0.05	89%
133	3.7	252.5	8.68	-2.346	0.05	89%
134	3.7	252.533	8.68	-2.343	0.04	89%
135	3.7	252.533	8.68	-2.343	0.04	89%
136	3.6	252.533	8.68	-2.343	0.04	89%
137	3.6	252.565	8.68	-2.34	0.04	90%
138	3.6	252.565	8.68	-2.34	0.04	90%
139	3.6	252.565	8.68	-2.34	0.04	90%
140	3.6	252.565	8.68	-2.34	0.04	90%
141	3.6	252.63	8.68	-2.333	0.03	92%
142	3.5	252.597	8.68	-2.337	0.04	91%
143	3.5	252.597	8.68	-2.337	0.04	91%
144	3.5	252.597	8.68	-2.337	0.04	91%
145	3.5	252.63	8.68	-2.333	0.03	92%
146	3.5	252.63	8.68	-2.333	0.03	92%

147	3.4	252.63	8.68	-2.333	0.03	92%
148	3.4	252.662	8.68	-2.33	0.03	93%
149	3.4	252.63	8.68	-2.333	0.03	92%
150	3.4	252.662	8.68	-2.33	0.03	93%
151	3.4	252.662	8.68	-2.33	0.03	93%
152	3.4	252.695	8.68	-2.327	0.03	93%
153	3.4	252.695	8.68	-2.327	0.03	93%
154	3.3	252.695	8.68	-2.327	0.03	93%
155	3.3	252.338	8.68	-2.363	0.06	85%
156	3.3	252.533	8.68	-2.343	0.04	89%
157	3.3	252.63	8.68	-2.333	0.03	92%
158	3.3	252.37	8.68	-2.36	0.06	85%
159	3.3	252.533	8.68	-2.343	0.04	89%
160	3.3	252.63	8.68	-2.333	0.03	92%
161	3.2	252.662	8.68	-2.33	0.03	93%
162	3.2	252.695	8.68	-2.327	0.03	93%
163	3.2	252.727	8.68	-2.323	0.02	94%
164	3.2	252.727	8.68	-2.323	0.02	94%
165	3.2	252.727	8.68	-2.323	0.02	94%
166	3.2	252.76	8.68	-2.32	0.02	95%
167	3.2	252.76	8.68	-2.32	0.02	95%
168	3.1	252.792	8.68	-2.317	0.02	96%
169	3.1	252.76	8.68	-2.32	0.02	95%
170	3.1	252.792	8.68	-2.317	0.02	96%
171	3.1	252.792	8.68	-2.317	0.02	96%
172	3.1	252.792	8.68	-2.317	0.02	96%
173	3.1	252.792	8.68	-2.317	0.02	96%
174	3.1	252.825	8.68	-2.313	0.01	97%
175	3.1	252.825	8.68	-2.313	0.01	97%
176	3.0	252.825	8.68	-2.313	0.01	97%
177	3.0	252.825	8.68	-2.313	0.01	97%
178	3.0	252.857	8.68	-2.31	0.01	98%
179	3.0	252.89	8.68	-2.307	0.01	98%
180	3.0	252.857	8.68	-2.31	0.01	98%
181	3.0	252.857	8.68	-2.31	0.01	98%
182	3.0	252.89	8.68	-2.307	0.01	98%
183	3.0	252.89	8.68	-2.307	0.01	98%
184	3.0	252.89	8.68	-2.307	0.01	98%
185	2.9	252.89	8.68	-2.307	0.01	98%
186	2.9	252.89	8.68	-2.307	0.01	98%
187	2.9	252.922	8.68	-2.303	0.00	99%
188	2.9	252.922	8.68	-2.303	0.00	99%
189	2.9	252.922	8.68	-2.303	0.00	99%
190	2.9	252.955	8.68	-2.3	0.00	100%

ATTACHMENT C

RESULTS OF LABORATORY TESTING OF WELL WATER SAMPLES



Client: Kollaard Associates Inc.

210 Prescott St., Box 189

Kemptville, ON K0G 1J0

Attention: Ms. Colleen Vermeersch

PO#: 190622

Invoice to: Kollaard Associates Inc. Page 1 of 5

Report Number: 1940492
Date Submitted: 2020-10-08
Date Reported: 2020-10-20
Project: 190622
COC #: 198013

Dear Colleen Vermeersch:

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:

Addrine Thomas 2020.10.20

09:54:00 -04'00'

Addrine Thomas, Inorganics Supervisor

All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise indicated.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at: http://www.cala.ca/scopes/2602.pdf.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is licensed by the Ontario Ministry of the Environment, Conservation, and Parks (MECP) for specific tests in drinking water (license #2318). A copy of the license is available upon request.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by the Ontario Ministry of Agriculture, Food, and Rural Affairs for specific tests in agricultural soils.

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. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.



Environment Testing

Client: Kollaard Associates Inc.

210 Prescott St., Box 189

Kemptville, ON

K0G 1J0

Attention: Ms. Colleen Vermeersch

PO#: 190622

Invoice to: Kollaard Associates Inc.

Report Number: 1940492
Date Submitted: 2020-10-08
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Project: 190622
COC #: 198013

				Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1521365 GW 2020-10-07 3904 March Rd - 3hr	1521366 GW 2020-10-07 3904 March Rd - 6hr
Group	Analyte	MRL	Units	Guideline		
Anions	Cl	1	mg/L	AO 250	23	24
	F	0.10	mg/L	MAC 1.5	0.20	<0.10
	N-NO2	0.10	mg/L	MAC 1.0	<0.10	<0.10
	N-NO3	0.10	mg/L	MAC 10.0	0.21	1.54
	SO4	1	mg/L	AO 500	39	44
General Chemistry	Alkalinity as CaCO3	5	mg/L	OG 500	247	240
	Colour	2	TCU		<2	<2
	Conductivity	5	uS/cm		578	611
	DOC	0.5	mg/L	AO 5	1.2	1.4
	рН	1.00		6.5-8.5	8.12	8.14
	S2-	0.01	mg/L	AO 0.05	<0.01	<0.01
	TDS (COND - CALC)	1	mg/L	AO 500	376	397
	Turbidity	0.1	NTU	AO 5.0	7.3*	5.5*
Hardness	Hardness as CaCO3	1	mg/L	OG 100	253*	271*
Indices/Calc	Ion Balance	0.01			0.92	0.99
Metals	Ca	1	mg/L		70	74
	Fe	0.03	mg/L	AO 0.3	0.68*	0.52*
	K	1	mg/L		5	8
	Mg	1	mg/L		19	21
	Mn	0.01	mg/L	AO 0.05	0.05	0.06*
	Na	2	mg/L	AO 200	17	18
Subcontract-Inorg	N-NH3	0.01	mg/L		0.17	0.22
	Phenols	0.001	mg/L		<0.001	<0.001
	Tannin & Lignin	0.1	mg/L		<0.1	<0.1
	Total Kjeldahl Nitrogen	0.1	mg/L		0.2	0.3

Guideline = ODWSOG

* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted. Methods references and/or additional QA/QC information available on request.



Environment Testing

Client: Kollaard Associates Inc.

210 Prescott St., Box 189

Kemptville, ON

K0G 1J0 Ms. Colleen Vermeersch

Attention: Ms. Colleen Ver

PO#: 190622

Invoice to: Kollaard Associates Inc.

Report Number: 1940492
Date Submitted: 2020-10-08
Date Reported: 2020-10-20
Project: 190622
COC #: 198013

QC Summary

Ar	alyte	Blank		QC % Rec	QC Limits
Run No 390581 Method C SM2130B	Analysis/Extraction Date 20	20-10-08 An	alyst A0	3	
Turbidity		<0.1 NTU	1	100	70-130
Run No 390585 Method C SM4500-S2	Analysis/Extraction Date 20 -D	20-10-08 An	alyst Al	ĒΤ	
S2-		<0.01 mg/L	1	105	80-120
Run No 390720 Method EPA 200.8	Analysis/Extraction Date 20	20-10-13 An	alyst H	D	
Iron		<0.03 mg/L		92	80-120
Manganese		<0.01 mg/L		98	80-120
Run No 390727 Method M SM3120B-3	Analysis/Extraction Date 20	20-10-13 An	alyst Z	S	
Calcium		<1 mg/L	1	104	90-110
Potassium		<1 mg/L		95	87-113
Magnesium		<1 mg/L	1	112	76-124
Sodium		<2 mg/L		97	82-118
Run No 390755 Method C SM2120C	Analysis/Extraction Date 20	20-10-14 A n	alyst Q	Т	
Colour		<2 TCU	1	101	90-110

Guideline = ODWSOG

* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted. Methods references and/or additional QA/QC information available on request.



Environment Testing

Client: Kollaard Associates Inc.

210 Prescott St., Box 189

Kemptville, ON

K0G 1J0

Attention: Ms. Colleen Vermeersch

PO#: 190622

Invoice to: Kollaard Associates Inc.

Report Number: 1940492
Date Submitted: 2020-10-08
Date Reported: 2020-10-20
Project: 190622
COC #: 198013

QC Summary

Analyte	Blank	QC % Rec	QC Limits			
Run No 390759 Analysis/Extraction Date 20 Method SM2320,2510,4500H/F						
Alkalinity (CaCO3)	<5 mg/L	102	90-110			
Conductivity	<5 uS/cm	99	90-110			
F	<0.10 mg/L	102	90-110			
рН		99	90-110			
Run No 390799 Analysis/Extraction Date 20 Method SUBCONTRACT P-INORG	20-10-09 A na	alyst AET				
Phenols	<0.001 mg/L	100	69-132			
Tannin & Lignin	<0.1 mg/L	80				
Run No 390857 Analysis/Extraction Date 20 Method SM 5310B	20-10-15 A na	alyst AG				
DOC	<0.5 mg/L	102	80-120			
Run No 390921 Analysis/Extraction Date 20 Method SM 4110	20-10-17 A na	illyst SKH				
Chloride	<1 mg/L	100	90-110			
N-NO2	<0.10 mg/L	107	90-110			
N-NO3	<0.10 mg/L	107	90-110			
SO4	<1 mg/L	100	90-110			

Guideline = ODWSOG

* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted. Methods references and/or additional QA/QC information available on request.



Environment Testing

Client: Kollaard Associates Inc.

210 Prescott St., Box 189

Kemptville, ON

K0G 1J0

Attention: Ms. Colleen Vermeersch

PO#: 190622

Invoice to: Kollaard Associates Inc.

Report Number: 1940492
Date Submitted: 2020-10-08
Date Reported: 2020-10-20
Project: 190622
COC #: 198013

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 391015 Analysis/Extraction Date 20 Method SUBCONTRACT P-INORG)20-10-19 A na	lyst AET	
N-NH3	<0.01 mg/L	88	
Total Kjeldahl Nitrogen	<0.1 mg/L	101	81-126
Run No 391018 Analysis/Extraction Date 20 Method C SM2340B	020-10-20 A na	lyst AET	
Hardness as CaCO3			
Ion Balance			
TDS (COND - CALC)			

Guideline = ODWSOG

* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted. Methods references and/or additional QA/QC information available on request.

eurofins | Environment Testing

Certificate of Analysis

Client: Kollaard Associates Inc.

210 Prescott St., Box 189

Kemptville, ON

K0G 1J0

Attention: Ms. Colleen Vermeersch

PO#: 190622

Invoice to: Kollaard Associates Inc. Page 1 of 2

Report Number: 1940498
Date Submitted: 2020-10-08
Date Reported: 2020-10-11
Project: 190622
COC #: 198013

Dear Colleen Vermeersch:

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:

Dragana

Dzeletovic

Magain Moletone 2020.10.11

13:01:36

APPROVAL: -04'00'

Dragana Dzeletovic-Andric, Microbiology Team Lead

All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise indicated.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at: http://www.cala.ca/scopes/2602.pdf.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is licensed by the Ontario Ministry of the Environment, Conservation, and Parks (MECP) for specific tests in drinking water (license #2318). A copy of the license is available upon request.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by the Ontario Ministry of Agriculture, Food, and Rural Affairs for specific tests in agricultural soils.

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. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.



Environment Testing

Client: Kollaard Associates Inc.

210 Prescott St., Box 189

Kemptville, ON

K0G 1J0

Attention: Ms. Colleen Vermeersch

PO#: 190622

Invoice to: Kollaard Associates Inc.

Report Number: 1940498
Date Submitted: 2020-10-08
Date Reported: 2020-10-11
Project: 190622
COC #: 198013

				Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1521376 GW 2020-10-07 3904 March Rd - 3hr	1521377 GW 2020-10-07 3904 March Rd - 6hr
Group	Analyte	MRL	Units	Guideline		
Microbiology	Escherichia Coli	0	ct/100mL	MAC 0	0	0
	Faecal Coliforms	0	ct/100mL		0	0
	Heterotrophic Plate Count	0	ct/1mL		34	6
	Total Coliforms	0	ct/100mL	MAC 0	3*	2*

Guideline = ODWSOG

* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted. Analytical Method: AMBCOLM1

additional QA/QC information available on request.



Client: Kollaard Associates Inc.

210 Prescott St., Box 189

Kemptville, ON K0G 1J0

Attention: Ms. Colleen Vermeersch

PO#:

Invoice to: Kollaard Associates Inc. Page 1 of 2

 Report Number:
 1963628

 Date Submitted:
 2021-09-29

 Date Reported:
 2021-09-30

 Project:
 3904 March Rd

 COC #:
 880746

Dear Colleen Vermeersch:

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:

Dragana Dzeletovic

Magain Adetoric 2021.09.30

16:31:12

APPROVAL: -04'00'

Dragana Dzeletovic-Andric, Microbiology Team Lead

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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. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.



Environment Testing

Client: Kollaard Associates Inc.

210 Prescott St., Box 189

Kemptville, ON K0G 1J0

Attention: Ms. Colleen Vermeersch

PO#:

Invoice to: Kollaard Associates Inc.

Report Number: 1963628 Date Submitted: 2021-09-29 Date Reported: 2021-09-30 Project: 3904 March Rd

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC =

COC #: 880746

Group	Analyte	MRL	Units	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D. Guideline	1586042 Water 2021-09-29 3904 March Rd
Microbiology	Total Coliforms	0	ct/100mL	MAC 0	0

Guideline = ODWSOG

* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted. Analytical Method: AMBCOLM1

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 additional QA/QC information available on request.

ATTACHMENT D SEWAGE EFFLUENT DILUTION CALCULATIONS

April 2022 190622

SEPTIC EFFLUENT DILUTION CALCULATIONS

Sewage Effluent for single family dwelling	365 m³/year
Sewage Effluent for commercial use	1834.13 m ³ /year
Total sewage design	2199.13 m ³ /year
Gross Site Area	95,800 m ²
Env. Can. Water Surplus (NPI)	372.2 mm

Hard Surface Area (Post-Development)

Roofs	1440
gravel area	<u>2640</u>
Total	4080 m ²

Net Infiltration Area = Gross Site Area - Hard Surface Area (Post-Development)

91,720 m²

Infiltration Reduction Factor:

Topography (rolling)	0.30
Soil (open sandy loam)	0.40
Cover (cultivated/orchard)	<u>0.15</u>
Total IRF	0.85

Septic Dilution For the combined effluent for the site:

Volume Effluent Per Year x 40 mg/L NO_3 = 2.8 mg/L NO_3 -N

Volume Effluent Per Year + (Net Infiltration Area x NPI x IRF)