

Appendix 4: Water Supply Information



June 2, 2019

Attention: [REDACTED]

Re: 1480 Finlayson View. Well Pump Test  
[REDACTED]

On May 29, 2019 service technicians from Wellmaster Pumps and Water Systems Ltd. arrived at 1480 Finlayson View. To perform a well in flow test as per your request. The technicians arrived at 09:00 then installed a 1" PVC sounder tube to 82 feet. The beginning static water level was measured at 40 feet from the top of casing. The pump was started and the well pumped for a period of 110 minutes at an average pump rate of 6.7 US gallons/ min producing a calculated amount of 743 US gallons (2812 Liters) of water. The water produced was clear and without odor.

The pumping water level stabilized at 68.5 feet at a pump rate of 4.9 US gpm (18.55 L/min) which calculates to a 26,712 liters / 24 hour period.

Wellmaster Pumps does not certify nor warrant these results. These results are based on years of experience in the groundwater industry and a visual and performance examination of the well equipment. Please consider these results can and will be affected by seasonal changes, geologic events, industrial occurrences and population growth in the area.

Kindest Regards

A handwritten signature in black ink, appearing to read "Chris Dutnall", is written over a light blue horizontal line.

Chris Dutnall  
Wellmaster Pumps.



## Treatment Report

Property Address: 1480 Finlayson View Test Date: May 29, 2019

Prepared For: [REDACTED] Email: [REDACTED]

Prepared by:

Wellmaster Representative: Dean Opdahl, Jason Dutnall

### Well Data

Type of Well Drilled ☒ Depth 100 feet Dug ☐ Depth

Well Location description: Well is on the left side of the pump house. Sounder tube installed to 82 feet.

### Pump Data

Type: ½ hp 230V 3 wire Set Depth: 84 feet

Pressure Set Points (psi) Low High

### Report

Time	Pumping Water Level (ft)	Flow Rate (gpm)	Amp Draw	Comments
09:00				Technicians arrived and installed sounder tube.
09:50	40	13		Start well pump
09:55	62.4	13		Flow Check
10:00	65.75	6.8		Adjust flow rate
10:10	66.6	6.8		Flow and Water Level Check
10:12	67	6.4		Flow and Water Level Check
10:17	67.53	6		Flow and Water Level Check
10:30	68.15	5.7		Flow and Water Level Check
10:40	68.5	5.3		Flow and Water Level Check
10:50	68.5	5.3		Flow and Water Level Check
11:00	68.8	4.9		Flow and Water Level Check
11:10	68.4	4.9		Flow and Water Level Check
11:20	68.5	4.9		Flow and Water Level Check
11:30	68.7	4.9		Flow and Water Level Check
11:40	68.6			Stop pump.
				Established pumping water level at 68.5 feet and a flow rate of 4.9 US gallons/min.
				Or 18.55 Liters / min = 26,712.00 Liters / 24hr period

Samples Taken Yes No X Tests done:



Your C.O.C. #: WI019938



Report Date: 2019/05/30  
Report #: R2729998  
Version: 1 - Final

### CERTIFICATE OF ANALYSIS

**MAXXAM JOB #: B940394**

**Received: 2019/05/28, 12:04**

Sample Matrix: Drinking Water  
# Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Total Coliform & E.Coli by MF-Chromocult (1)	1	N/A	2019/05/28	VIC SOP 00112	SM23 9222J

#### Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing. Maxxam is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Maxxam, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Maxxam Victoria

Encryption Key

Melissa McIntosh  
Project Manager  
31 May 2019 13:53:23

Please direct all questions regarding this Certificate of Analysis to your Project Manager,  
Customer Solutions, Western Canada Customer Experience Team  
Email: CustomerService@maxxam.ca  
Phone# (604) 734 7276

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total Cover Pages : 1  
Page 1 of 5

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386



Maxxam Job #: B940394  
Report Date: 2019/05/30

**MICROBIOLOGY (DRINKING WATER)**

Maxxam ID			VT3450	
Sampling Date			2019/05/28 10:30	
COC Number			W019938	
	UNITS	MAC	KITCHEN TAP	QC Batch
<b>Microbiological Param.</b>				
Total Coliforms	CFU/100mL	0	0	9438597
E. coli	CFU/100mL	0	0	9438597
No Fill	No Exceedance			
Grey	Exceeds 1 criteria policy/level			
Black	Exceeds both criteria/levels			



Maxxam Job #: B940394  
Report Date: 2019/05/30



#### GENERAL COMMENTS

MAC: The guidelines that have been included in this report have been taken from the Canadian Drinking Water Quality Summary Table, February 2017 and the Guideline Technical Document – Lead, March 2019.

Criteria A = Maximum Acceptable Concentration (MAC) / Criteria B = Aesthetic Objectives (AO) / Criteria C = Operational Guidance Values (OG)  
It is recommended to consult these guidelines when interpreting your data since there are non-numerical guidelines that are not included on this report.

##### Turbidity Guidelines:

1. Chemically assisted filtration: less than or equal to 0.3 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 1.0 NTU at any time.
2. Slow sand / diatomaceous earth filtration: less than or equal to 1.0 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 3.0 NTU at any time.
3. Membrane filtration: less than or equal to 0.1 NTU in 99% of the measurements made or at least 99% of the time each calendar month. Shall not exceed 0.3 NTU at any time.
4. To ensure effectiveness of disinfection and for good operation of the distribution system, it is recommended that water entering the distribution system have turbidity levels of 1.0 NTU or less.

Measurement of Uncertainty has not been accounted for when stating conformity to the selected criteria, where applicable.

Results relate only to the items tested.



Maxxam Job #: B940394  
Report Date: 2019/05/30

**VALIDATION SIGNATURE PAGE**

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Andy Lu, Ph.D., P.Chem., Scientific Specialist

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

**maxxam**  
A Maxxam Group Company

Company (Report to):  
Contact Name:  
Meeting Address:  
Phone #:  
E-mail:  
After/Hours Contact #:  
Regular Turnaround Time (TAT) ☐ Rush Please contact the lab (5 days for most tests)  
Project Name:  
Dates Required:  
Special Instructions: ☐ Map Sample Location (Please specify):  
Return Cooler: ☐ Map Sample Location (Please specify):

PLEASE NOTE: Your invoice may be subject to a \$75 minimum bill.  
System: ☐ Yes ☐ No

**MAXIMIZER ISLAND HEALTH AUTHORITY**  
Medical Health Officer: 1.500.204.6196  
Drinking Water Officer: 250.755.6715

**WI 019938**  
Maxxam Job #:  
DRINKING WATER SUBMISSION  
CHAIN OF CUSTODY RECORD

All information on this form must be completed before testing can commence.

If you are drinking water services two or more homes, we strongly recommend that you contact local health authorities to find out how the drinking water treatment and supply to the system. Please be aware that in the future, we may be required to report results directly to local health authorities.

**Basic Collection**

1. Fill container by filling water quality samples about the representative of the water that will be consumed. Samples are subject to sampling of the water tap. However, other sampling locations may be used to determine groundwater quality or to determine the source.
2. Let the water run for 5 minutes.
3. Label the bottle with your name, date and time you are leaving the sample.
4. Fill all bottles provided. (Take care not to touch the inside of the bottle or underside of cap).
5. Cap the sample and place it in bags or small cooler with icepack.

**Remember:** It is important that you do not contaminate the sample as you handle the container. Wash your hands before you use and be careful not to touch the rim of the bottle or the inside of the cap.

**DO NOT:**

- Don't drink or put any water you receive from the lab.
- Don't let the sample sit out overnight. Please refrigerate.
- Don't freeze the sample.

**Sample Transportation & Delivery**

1. Deliveries must be made by 10:00 AM.
2. Deliveries must be made by 10:00 AM.
3. Deliveries must be made by 10:00 AM.
4. Deliveries must be made by 10:00 AM.

**Barcode:** B940394\_COC

**Sample Identification**

Sample Identification	Sample Location (See Description)	Sample Type (See Legend)	Sample Date	Sample Time	Sample Location	Sample Type	Sample Date	Sample Time	Sample Location	Sample Type	Sample Date	Sample Time
1	KITCHEN TAP	10/30/18										
2												
3												
4												
5												

**PLEASE CHECK**

Drinking Water Scan: ☐ Yes ☐ No  
Home Safety Scan: ☐ Yes ☐ No  
Total Metals Scan including Hardness & Hg: ☐ Yes ☐ No  
Total Coliform and E. Coli: ☐ Yes ☐ No  
Report Drinking Water Criteria DWB17: ☐ Yes ☐ No

**PLEASE SELECT BELOW**

Drinking Water Scan: ☐ Yes ☐ No  
Home Safety Scan: ☐ Yes ☐ No  
Total Metals Scan including Hardness & Hg: ☐ Yes ☐ No  
Total Coliform and E. Coli: ☐ Yes ☐ No  
Report Drinking Water Criteria DWB17: ☐ Yes ☐ No

**For further information and resources on result interpretation, please visit our Drinking Water Resource Centre:**  
<http://maxxam.ca/maxxam-resource-centre-for-drinking-water-testing>

CCDC-1035