



2023

DRINKING WATER QUALITY

FINAL REPORT | MAY 2024

**ANNUAL
REPORT**

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EXECUTIVE SUMMARY

This report summarizes the District of West Vancouver's water quality program for 2023. The program operates under the protocol developed in the Water Quality and Reporting Plan for Metro Vancouver and Member Municipalities; where objectives and monitoring results are in accordance with the *Guidelines for Canadian Drinking Water Quality* (GCDWQ).

The District's water system treats and distributes potable water supplied from two local sources, namely Eagle Lake and Montizambert Creek, and distributes treated water received from Metro Vancouver (Capilano and/or Seymour watershed sources). Detailed information regarding the Metro Vancouver supply is available at <http://www.metrovancouver.org/services/water>.

Raw water from both Eagle Lake and Montizambert Creek sources were analyzed for bacteriological, physical, and chemical parameters. Bacteriological testing in 2023 indicates the source waters have a low presence of *Escherichia coli* (E. coli), giardia, and cryptosporidium with elevated levels in some limited cases.

Water throughout the distribution system was tested for bacteriological, physical, and chemical parameters. 587 samples were analyzed in 2023. All water sample results reported a turbidity of less than 5 NTU and a chlorine residual of no less than 0.2mg/L. One sample had HPC counts that exceeded 500 CFU/100mL. Elevated HPC is not an indication for water safety concerns but is an operational indicator of possible stagnation and potential degradation of water quality. Where HPC results exceeded 500 CFU/100mL the water mains were flushed, and the turbidity readings and chlorine residuals were analyzed. The new samples show turbidity readings and chlorine residuals were well within the limits set by the GCDWQ. Additional monthly, quarterly and semi-annually testing for disinfection by-products, metals, and total organic carbons were within the Canadian Guidelines.

The report also contains Emergency Response Plans that outline the steps to take related to elevated E. coli, contamination, turbidity, and loss of disinfection.

1.0 INTRODUCTION

This report summarizes the District of West Vancouver's water quality program for 2023. The purpose is to detail the municipality's efforts in maintaining high quality drinking water and to provide residents with the results of the sampling and analysis program.

Water suppliers in British Columbia are regulated by the Drinking Water Protection Act and the Drinking Water Protection Regulation (DWPR). The *Drinking Water Quality Annual Report* is a requirement of the Vancouver Coastal Health Authority (VCHA) in order to receive annual operating permits and is reviewed by the Medical Health Officer (MHO) for the North Shore. As requested by the MHO, this report shall be made public via a prominent web site posting at <http://www.westvancouver.ca>.

The District's water quality program is in accordance with the *Water Quality Monitoring and Reporting Plan for the GVRD and Member Municipalities, May 2000*, which was developed under the authority and direction of the Regional MHOs.

2.0 GENERAL DESCRIPTION

The District of West Vancouver operates two local water supplies and a distribution system consisting of a network of intakes, two treatment plants, reservoirs, chlorination stations, pressure reducing valve (PRV) stations, pumps, hydrants and mains. The system is required to adequately receive, store, and transport potable water to all users in West Vancouver. Key facilities are connected by a telemetry system (SCADA) to a central computer, which monitors and identifies erroneous operating conditions and communicates to key personnel 24 hours a day, seven days a week.

3.0 SOURCE WATER WATERSHEDS

3.1 General

The municipality obtains water from three sources:

- Eagle Lake
- Montizambert Creek
- Metro Vancouver's Capilano / Seymour Watersheds.

From Capilano River to Horseshoe Bay, the water distribution system is fed by both Eagle Lake and Metro Vancouver source waters. While the distribution area for each source varies seasonally, in general, Eagle Lake water is received below the Upper Levels Highway, west of 29th Street and above the Upper Levels Highway east to the Chartwell neighbourhood. The municipality continues to optimize the use of the Eagle Lake source whenever supplies permit to reduce the purchase of bulk water from Metro Vancouver.

North of Horseshoe Bay at the northern municipal boundary, the Sunset Highlands neighbourhood is serviced by the Montizambert Creek source, except for the Seascapes multi-family development, which utilizes private wells.

3.2 Eagle Lake Treatment Plant

Located above Cypress Falls Park, Eagle Lake source water flows by gravity through intake screens into the Eagle Lake treatment plant. The Eagle Lake facility is a Level 4 certified Suez membrane treatment plant and is compliant with the 4-3-2-1 multi-barrier approach as specified in the GCDWQ to ensure safe drinking water as mandated by the Health Authorities of British Columbia. When the lake level drops below the elevation of the intake screens, floating pumps are required to pump water from the lower lake levels to the treatment plant. This typically occurs during the late summer months.

Once the water enters the treatment facility, it passes through an automatic self-cleaning bar screen to remove any floating debris. The water is pH adjusted and coagulant is added to optimize the membrane filtration process. The coagulated water is then pumped and filtered through submerged membrane filters. Once filtered, sodium hypochlorite is added for disinfection. The fully treated water is stored in concrete reservoirs ready for distribution.

In an effort to ensure treatment objectives are being met, one quarter of the ultrafiltration hollow fiber membranes were replaced at Eagle Lake in 2022 and the remaining three quarters were replaced in 2023.

3.2.1 Eagle Lake Water Treatment Plant Bypass and Optimization

In the event of an operational emergency, the Eagle Lake plant may need to be bypassed in order to maintain water supply to the District's residents and for the provision of fire protection. In the event of a bypass, the source water will continue to be disinfected with sodium hypochlorite though at a higher dose to compensate for the loss of the filtration process. The chlorine contact time will be maintained during a bypass event.

All EOCP certified distribution and treatment staff are familiar with the details of the bypass procedure. The details of this procedure have been provided separately in the Eagle Lake Water Treatment Plant Emergency Response and Contingency Plan to VCHA.

The Eagle Lake Treatment Plant was not bypassed in 2023.

Eagle Lake optimization allows the District to increase the supply of Eagle Lake water into the distribution system during non-peak periods. The District SCADA system is used to automatically monitor and prompt any required changes to the system based on plant conditions such as clearwell levels and system demand. Standby personnel monitor the Eagle Lake Water Treatment Plant operation 24/7 and VCH is informed if there are any changes to operational procedures.

3.3 Montizambert Treatment Plant

Located north of Horseshoe Bay, the Montizambert Treatment Plant is a Level 3 classified plant commissioned in September 2011. It is a Pall Membrane treatment plant compliant with the 4-3-2-1 multi-barrier approach as specified in the GCDWQ to ensure safe drinking water as mandated by the Health Authorities of British Columbia.

The source water from Montizambert Creek passes through a gravel filtration intake and a settling tank before entering the treatment facility. Coagulant is added once the water enters the plant and is mixed and pumped through the membrane filters. After the filtration process, sodium hypochlorite is added for disinfection and the water is stored in a concrete clearwell ready to be distributed.

3.3.1 Montizambert Water Treatment Plant Bypass

In the event of an operational emergency, the Montizambert Water Treatment Plant may need to be bypassed to maintain water supply to residents and for the provision of fire protection. The plant is capable of two different types of bypass, one with cartridge filters (3 microns nominal) and the second without. The use of cartridge filters will be determined on a case-by-case basis. For either procedure, the water will continue to be disinfected with sodium hypochlorite and adjusted to an appropriate dosage rate depending on the bypass process in place. The chlorine contact time is maintained during a bypass event.

All EOCP certified distribution and treatment staff are familiar with the details of the bypass procedure. This procedure has been provided separately in the Montizambert Creek Water Treatment Plant Emergency Response and Contingency plan to VCHA.

The Montizambert Water Treatment Plant was not bypassed in 2023.

3.4 Metro Vancouver

Bulk treated water purchased by the District from Metro Vancouver is supplied from the Seymour and Capilano watersheds. This water enters the municipality's distribution system at five locations:

- Glenmore Dr. between Morven Dr. and Deep Dene Road
- Mathers Avenue and Capilano Road
- Keith Road and Upper Levels Highway
- Marine Drive and Capilano Road
- Capilano Road and Welch Street

3.5 Challenges

Challenges to the quality and quantity of the source water include:

- maintaining a balance between public access for recreation (e.g. portions of the Baden Powell Trail above Eagle Lake) and security of the watershed for protection of drinking water quality
- physical disturbances in watersheds such as soil erosion into creeks, which lead to turbidity spikes
- vulnerability of open water sources to contamination from animal and human activity;
- maintaining creek flow supplementation for fish habitat during the summer months, when Eagle Lake level is low
- low flow conditions in Montizambert Creek during drier summer months
- climate change, heavy rainfall causing turbidity issues in winter months and potential for drought conditions in the summer months
- aging dam and intake infrastructure

4.0 REGULATIONS AND STANDARDS FOR SOURCE WATER AND THE DISTRIBUTION SYSTEM

Both source waters and water within the distribution system are tested for microbiological, chemical, and physical parameters. For the purposes of the municipality's water quality sampling program, the locations monitoring Metro water are treated as 'distribution' sites and not 'source' sites although some Metro sample points are located close to the entry points to the municipal distribution system.

The Drinking Water Protection Regulation (DWPR) requires 1 sample/1000 residents on a monthly basis for cities with a population between 5,000 and 90,000 residents. During 2023, the District of West Vancouver had approximately 45,000 residents, which translates to a minimum of 540 samples required annually. The total number of samples collected by the District during 2023 was 587, which exceeds the requirements of the DWPR for the number of stations and samples required.

Further to the information outlined below, full details outlining the health-based guidelines for water quality in Canada, established on behalf of the Federal-Provincial-Territorial Committee on Drinking Water, is available on Health Canada's website.

4.1 Microbiological Parameters

Under the Guidelines for Canadian Drinking Water Quality (GCDWQ) the most vital guidelines are those dealing with microbiological contaminants. The District of West Vancouver follows the guidelines by taking the required samples at the regulated times.

Samples are taken monthly at the Montizambert and Eagle Lake sources for Cryptosporidium and Giardia. The treatment goal for these two parameters is a minimum of 3-log (99.9%) removal.

Escherichia coli (E. coli) samples are taken bi-weekly at the source and weekly throughout the distribution system. E. coli is an indicator of microbiological safety and the GCDWQ maximum allowable concentration within the distribution system is none detected per 100 mL sample. Heterotrophic Plate Count (HPC) is tested bi-weekly at the source as well as weekly throughout the distribution system. Although it is naturally occurring and has no limits under the guideline, it is a good monitoring tool for general bacteriological water quality.

Total Coliforms are sampled bi-weekly at the source and weekly throughout the distribution system. Total coliforms are not used as indicators of potential health effects from pathogenic microorganisms; instead, they are used as an operational tool to determine how well the drinking water treatment system is operating. When sampled in the distribution system, the GCDWQ states that no consecutive samples shall contain total coliform and that no more than 10% of samples taken contain total coliform. Total coliform detected in the distribution system can be an indication of re-growth of bacteria in distribution biofilms or intrusion of untreated water.

IG MicroMed Environmental Inc. conducted the analysis for Giardia and Cryptosporidium and Metro Vancouver Laboratories conducted analysis for TOC, Total Coliform, E. coli and HPC.

4.2 Physical Parameters

4.2.1 Turbidity

Turbidity describes the amount of suspended solids in water measured in nephelometric turbidity units (NTU). The presence of turbidity can have significant effects on both the microbiological quality of water and the detection of the bacteria and viruses. The target turbidity for treated water from the Eagle Lake and Montizambert Water Treatment Plants is 0.1 NTU or less in at least 99% of measurements per operational filter period or per month. Measurements greater than 0.1 NTU for a period greater than 15 minutes from an individual membrane unit will trigger a membrane integrity test and investigation. To ensure good operation of the distribution system, the Guidelines for Canadian Drinking Water Quality recommends turbidity levels of 1.0 NTU or less. At levels greater than 5.0 NTU, cloudiness becomes apparent.

4.2.2 Temperature

The aesthetic guideline for temperature is 15°C. Typically, the temperature of drinking water for both the source water and the distribution system rises during summer months. District staff appreciate that higher temperatures in the distribution system can affect chlorine residuals and can contribute to bacterial re-growth. Tests are completed on a regular basis throughout the distribution system to ensure acceptable water quality.

4.2.3 Colour

The physical parameter of colour is tested together with chemical parameters for Eagle Lake and Montizambert source water. With respect to colour, the GCDWQ specifies an aesthetic objective of less than 15 true colour units (TCU) for treated water.

4.3 Inorganic and Organic Chemical Parameters

Testing of source waters for chemical parameters, including bromate, bromide, chlorate, chloride, and sodium is conducted semi-annually at both Eagle Lake and Montizambert Creek.

In the distribution system, chemical parameters tested include chlorine residual, pH, and disinfection by-products. Chlorine residual is measured at all sampling sites when bacteriological samples are collected; additionally, there are several online chlorine analyzers for continuous monitoring throughout the distribution system.

4.3.1 Disinfection By-Products

Disinfection by-products are formed when chlorine reacts with natural organic matter. The two main disinfection by-products of concern when disinfecting with sodium hypochlorite are trihalomethanes (THMs) and haloacetic acids (HAAs). THMs and HAAs are included in the GCDWQ with maximum acceptable concentration (MAC) of 0.1 mg/l and 0.08 mg/l respectively.

4.3.2 pH

The water's scale of acidity or alkalinity is measured in potential of hydrogen (pH). The GCDWQ recommends a pH in the range of 7.0 – 10.5 as a treatment objective.

It is recognized that acidic water will accelerate the corrosion of metal pipes as well as hinder the treatment process and the pH is adjusted to the 7.5 - 9.0 range for the Eagle Lake supply. Sodium hydroxide is used to achieve this objective. No adjustment is made to the Montizambert supply.

4.3.3 Metals

The District's water quality sampling and monitoring program includes semi-annual testing at four locations within the distribution system for a variety of metals. See appendix C-1 for results.

In some homes, where older plumbing and fixtures are present, small amounts of lead may be present due to the corrosion of metals. In these cases, Vancouver Coastal Health recommends running tap water to flush any lead originating from household plumbing or fixtures. See appendix C-6.

5.0 TESTING, SAMPLE ANALYSIS AND RESULTS

Microbiological testing was conducted at a total of 39 sampling sites including the Eagle Lake and Montizambert Creek source locations. The monitoring protocol dictates that 12 to 13 sites per week are sampled according to the following breakdown: 10% source water, 10% low flow/dead end locations, 40% medium flow locations, and 40% high flow locations. Table 1 outlines the District’s water sampling calendar.

Table 1: Water Sampling Calendar

Water Type	Parameter	Frequency
Sources Eagle Lake Montizambert Creek	Microbiological, Turbidity, Temperature	Bi-weekly
	Giardia, Cryptosporidium	Monthly
	Total Organic Carbon	Monthly
	Chemical, physical list	Semi-annually
Distribution System	Microbiological, Turbidity, Temperature	Weekly (not at every site)
	HAA’s, THM’s, pH	Quarterly
	Metals	Semi-annually

5.1 Sample Analysis – Source Water (untreated)

At Eagle Lake, 25 bi-weekly source water samples were tested. 19 samples had a most probable number (MPN) of less than 1 per 100 mL, and 6 samples had a presence of E. coli ranging from 1 to 13 MPN/100mLs. Testing for total coliforms had results ranging from 6 to 579 MPN/100mLs in the raw, untreated source water.

Table 2A: Eagle Lake Source Water Microbiological and Physical Parameters

Sample Name	Number of Samples	Ecoli MPN/100mLs			HPC CFU/mL			Temperature °C			Total Coliform MPN/100mLs			Turbidity NTU		
		Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.
WEAG-LK1	25	<1	13	<1	60	440	221	2	21	9	6	579	76	0.17	0.97	0.37

At Montizambert Creek, 26 bi-weekly source water samples were tested. 19 samples had a most probable number (MPN) of less than 1 per 100 mL and 7 samples had a presence of E. coli ranging from 1 to 13 MPN/100mLs. Testing for total coliforms had results ranging from 4 to 1203 MPN/100mLs in the raw, untreated source water.

Table 2B: Montizambert Creek Source Water Microbiological and Physical Parameters

Sample Name	Number of Samples	Ecoli MPN/100mLs			HPC CFU/mL			Temperature °C			Total Coliform MPN/100mLs			Turbidity NTU		
		Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.
WMZ-CK1	26	<1	13	<1	36	1000	238	2	17	9	4	1203	136	0.18	3.5	1.13

Giardia and Cryptosporidium testing was conducted monthly for both sources. Results shown in Appendix C indicate the presence of Giardia and Cryptosporidium in both water sources at multiple times through the year.

Source water chemistry testing is conducted at Eagle Lake and Montizambert on a semi-annual basis. Source water chemistry testing results are shown in Appendix B along with a full range of other chemicals parameters which are not included in the guidelines but are still monitored by the District.

5.2 Sample Analysis – Distribution System

A map of the District’s water distribution system with sampling locations and an address list for the sampling sites is included in Appendix A. The naming convention for the sample number and sample bottle reflects a reference to either Metro Vancouver (WVR), Eagle Lake (WEAG) or Montizambert Creek (WMZ) as the water source. Depending on the hydraulic conditions, water may be provided from either Eagle Lake or Metro Vancouver for some locations.

587 distribution system samples were analyzed in 2023. All water sample results reported no less than 0.2mg/L chlorine residual and turbidity of no more than 5 NTU. There were no elevated samples for E. coli or Total Coliforms count. Section 8.1 of this report outlines the response procedures in the event of a positive E. coli test result.

One sample had HPC counts that exceeded 500 CFU/mL. Elevated HPC is not an indication for water safety concerns but is an operational indicator of possible stagnation and potential degradation of water quality. Where HPC results exceeded 500 CFU/mL the water mains were flushed, and the turbidity readings and chlorine residuals were analyzed. The new samples show turbidity readings and chlorine residuals were well within the limits set by the GCDWQ.

Table 3 and Table 4 below summarize the results by the sampling sites.

Table 3: Distribution System Microbiological and Physical Parameters (WVR Sites)

	Parameter	Chlorine Free mg/L			Temperature °C			HPC CFU/mL		Total Coliform CFU/100mLs	Ecoli CFU/100mLs	Turbidity NTU		
Sample Site	Guideline	No less than 0.2 mg/L			No more than 15 °C			None		None	None	No more than 5.0 NTU		
	# of Samples	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Result	Result	Min.	Max.	Avg.
WVR-711	13	0.62	1.13	0.82	4	17	9.8	<2	10	<1	<1	0.11	0.30	0.20
WVR-712	13	0.22	0.53	0.37	5	20	10.4	<2	54	<1	<1	0.11	0.20	0.14
WVR-718	12	0.40	0.78	0.59	6	19	12.1	<2	22	<1	<1	0.10	0.28	0.17
WVR-761	12	0.26	0.52	0.39	5	20	11.8	<2	130	<1	<1	0.12	0.37	0.20
WVR-764	13	0.48	0.97	0.75	5	20	10.7	<2	10	<1	<1	0.12	0.31	0.20
WVR-790	26	0.30	0.83	0.64	5	17	10.4	<2	4	<1	<1	0.12	0.32	0.18
WVR-791	13	0.57	0.95	0.80	2	18	9.2	<2	4	<1	<1	0.15	0.23	0.18
WVR-792	26	0.49	1.35	0.67	5	18	10.3	<2	12	<1	<1	0.09	0.39	0.20
WVR-793	13	0.23	0.53	0.38	4	18	9.9	<2	180	<1	<1	0.09	0.28	0.15
WVR-794	13	0.46	1.07	0.70	5	17	10.0	<2	12	<1	<1	0.11	0.23	0.17
WVR-795	13	0.39	0.77	0.63	5	17	9.8	<2	56	<1	<1	0.12	0.76	0.26
WVR-796	26	0.62	0.95	0.74	3	20	10.5	<2	4	<1	<1	0.12	0.36	0.19
WVR-797	13	0.20	0.84	0.56	5	19	10.9	<2	2600	<1	<1	0.12	0.32	0.19

Table 4: Distribution System Microbiological and Physical Parameters (WEAG and WMZ Sites)

	Parameter	Chlorine Free mg/L			Temperature °C			HPC CFU/mL		Total Coliform CFU/100mLs	Ecoli CFU/100mLs	Turbidity NTU		
Sample Site	Guideline	No less than 0.2 mg/L			No more than 15 °C			None		None	None	No more than 5.0 NTU		
	# of Samples	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Result	Result	Min.	Max.	Avg.
WEAG-710	12	1.02	1.5	1.31	4	21	10.6	<2	18	<1	<1	0.06	0.20	0.14
WEAG-716	25	0.62	1.25	0.94	5	21	11.6	<2	8	<1	<1	0.08	0.48	0.21
WEAG-719	26	0.4	1.59	1.03	5	20	10.8	<2	120	<1	<1	0.08	0.89	0.23
WEAG-765	13	0.84	1.28	1.07	4	21	11.2	<2	26	<1	<1	0.11	0.32	0.19
WEAG-768	12	0.56	1.42	0.99	5	18	11.3	<2	18	<1	<1	0.08	0.21	0.15
WEAG-769	12	0.68	1.36	1.01	6	19	11.3	<2	20	<1	<1	0.07	0.30	0.16
WEAG-770	25	0.31	0.76	0.60	4	18	10.5	<2	410	<1	<1	0.11	0.43	0.19
WEAG-771	25	0.61	1.2	0.95	5	22	11.8	<2	26	<1	<1	0.10	0.56	0.26
WEAG-772	25	0.6	1.22	0.96	5	22	11.1	<2	24	<1	<1	0.11	0.31	0.20
WEAG-773	13	0.25	1.12	0.67	5	20	11.4	<2	370	<1	<1	0.13	0.30	0.19
WEAG-774	12	0.8	1.33	1.05	5	21	11.5	<2	170	<1	<1	0.08	0.25	0.16
WEAG-776	12	0.67	1.47	1.19	4	21	11.1	<2	4	<1	<1	0.07	0.21	0.13
WEAG-778	25	0.69	1.33	1.02	5	21	11.2	<2	46	<1	<1	0.12	0.39	0.21
WEAG-779	13	0.62	1.43	0.93	5	18	10.0	<2	2	<1	<1	0.07	0.20	0.14
WEAG-780	13	0.98	1.48	1.17	5	21	11.2	<2	12	<1	<1	0.15	0.69	0.24
WEAG-783	12	0.6	1.35	1.04	5	21	11.6	<2	50	<1	<1	0.07	0.24	0.14
WEAG-784	14	0.7	1.2	0.98	5	20	11.7	<2	10	<1	<1	0.09	0.64	0.27
WEAG-785	13	0.86	1.29	1.08	4	21	11.4	<2	28	<1	<1	0.12	0.27	0.19
WEAG-786	12	0.65	1.3	0.90	5	17	11.0	<2	12	<1	<1	0.11	0.24	0.16
WEAG-787	12	0.58	1.31	0.87	5	18	11.2	<2	22	<1	<1	0.07	0.45	0.19
WEAG-788	12	0.64	1.34	0.92	5	17	10.9	<2	4	<1	<1	0.07	0.23	0.14
WEAG-880	13	0.65	1.39	1.02	4	19	10.7	<2	22	<1	<1	0.09	0.25	0.16
WMZ-781	12	0.42	0.98	0.79	5	18	10.7	<2	14	<1	<1	0.24	0.82	0.49
WMZ-782	13	0.53	1.43	1.18	4	19	9.6	<2	4	<1	<1	0.13	3.70	0.66

The semi-annual testing for metals within the distribution system are provided in Appendix C. All the sampling results were well within GCDWQ guidelines.

Disinfection by-products are formed when chlorine reacts with natural organic matters. The two main categories of disinfection by-products are trihalomethanes (THMs) and haloacetic acids (HAAs) which are monitored on a quarterly basis from 10 sample sites.

The test results are presented as a running quarterly average for total THMs and total HAAs in Appendix C. All the readings taken in 2023 are within normal levels.

The level of natural organic matter is typically characterized by measuring total organic carbon (TOC) in a laboratory. Organic carbons originate in water from partially dissolved organic matter such as algae, leaves, bark, wood and soil. These materials also cause a significant portion of the colour found in natural water sources. TOC levels are within expected levels.

A complete record of the water sampling results is in Appendix C.

5.3 Distribution System – Water Main Replacement

An additional factor in water quality is the timely replacement of water mains. Factors related to capacity, flow characteristics and internal pipe condition can all improve water quality. The following table highlights the mains replaced in 2023 and lists the mains to be replaced in 2024.

2023 Water Main Construction	2024 Planned Water Main Construction
1. Inglewood Avenue – 792m	1. Stone Crescent – 655m
2. 26th St, 27th St, Ottawa Avenue, and Nelson Avenue – 845m	2. Eagleridge Drive – 713m
3. Keith Road – 59m	3. Inglewood Avenue – 198m
4. Taylor Way – 518m	4. Eastmont Drive – 434m
5. Ottawa Avenue – 234m	5. Millstream Road and Crestline Road – 622m
6. Rabbit Lane – 382m	6. Chartwell Drive – 89m
7. Eden Place – 136m	7. Woodgreen Drive – 278m
8. Caulfield Drive – 248m	8. Woodgreen C3 – 112.5m
	9. Marine Dr: Nelson Ave to Keith – 234m
	10. Duchess Avenue 12-15th – 605m

6.0 PUBLIC NOTIFICATION

6.1 Drinking Water Advisory/Boil Water Advisory

2023 was free of significant turbidity events from the Metro Vancouver, Eagle Lake and Montizambert sources.

No boil water advisory was issued in 2023.

6.2 General Drinking Water Quality Advisory

There were no General Drinking Water Advisories issued in 2023.

7.0 OPERATOR QUALIFICATIONS AND TRAINING

Further to the *Drinking Water Protection Act*, the Drinking Water Protection Regulation (DWPR) came into effect May 16, 2003. The regulation includes the classification of distribution and treatment systems and the qualification standards for persons operating these systems through the Environmental Operators Certification Program (EOCP).

The District's water distribution system is classified Level 4. The District is in compliance with EOCP's requirement to have at least one operator certified to the level of the facility. Nevertheless, the District continues to work towards having multiple operators certified to EOCP Level 4. The water treatment plants are assessed separately, and as noted in Sections 3.2 and 3.3.

7.1 Operator Qualifications

The municipality has a distribution system staff of six operators and one supervisor and a treatment staff of two treatment operators and one supervisor.

In 2023, the District staff maintained the following certification levels:

Water Distribution:

- Level 4 – one operator
- Level 3 – one supervisor
- Level 2 – four operators
- Level 1 – one operator

Water Treatment:

- Level 4 – one supervisor
- Level 3 – one operator
- Level 2 – 0 operators
- Level 1 – one operator

Staff are encouraged to take courses that will enable them to advance to higher EOCP certification levels. All operators are required to take a prescribed amount of education and training to keep their certifications in good standing.

8.0 EMERGENCY RESPONSE PLANS

8.1 E. coli Positive Response

If a sample analyzed by Metro Vancouver Laboratories is tested positive for E. coli, the following response plan will occur.

1. The municipality's water quality personnel and the MHO will be notified via the Metro laboratory.
2. Results of interim samples, if any, from the site will be examined. (Interim samples are any samples that may have been taken from the site in the period between when the E. coli positive sample was taken and when it was determined to be E. coli positive.)
3. Arrangements will be made for the immediate collection of a repeat sample including, where possible, samples from upstream and downstream of the E. coli positive sample location.
4. Water treatment personnel will be contacted to determine if an interruption of source water disinfection had occurred in the period before the E. coli positive sample was taken.
5. The chlorine residual for the sample noted on the sampler's Water Sample Data Sheet will be reviewed to determine if a localized loss of disinfectant residual has occurred.
6. All water utility personnel will be contacted to determine if there has been any loss of pressure or other unusual events that may have led to contaminants entering the water system.
7. The need for boil water advisory will be evaluated and if deemed necessary by the MHO, the VCHA and the municipality will carry out various means to inform the public. Metro Vancouver will be informed of this public advisory.
8. The MHO and District staff shall determine the extent of the boil water advisory.
9. Metro Labs will initiate procedures necessary for the identification of E.coli with standard biochemical tests.
10. The District will provide the MHO with repeat sample results and continue to sample until three consecutive samples show no E.coli detectable per 100mLs.

8.2 Chemical or Biological Contamination Response

In the event of chemical or biological contamination, in either of the source waters (Eagle Lake, Montizambert Creek) or in the distribution system, the MHO will be immediately notified. The chemical will be identified and any public health risk factors associated with the chemical presence in the potable water will be determined. Steps will be taken to isolate the contaminated zone area and the level of contamination will be determined through water testing and sampling. Through consultation with the MHO, a public advisory will be communicated. All steps to ensure public health and safety including the banning of water usage will be undertaken if necessary.

8.3 Turbidity Response

In general, turbidity has not been a persistent problem in the District's water supply (see Section 4.2.1), although on occasion, elevated levels can be experienced. Water quality has improved greatly with the introduction of the Eagle Lake and Montizambert Membrane Filtration Facilities, which produce treated water with turbidity of less than 0.1 NTU. As well, the commissioning of the Seymour-Capilano twin tunnels in 2015, which ensures all the water received from Metro Vancouver has gone through the Seymour-Capilano Filtration Plant has had a positive effect.

Since all water supply sources to the District of West Vancouver are currently filtered, an elevated turbidity event is very unlikely. If the source water turbidity event was severe enough where the filters could no longer effectively treat water, the plant bypass would be activated. Representatives from Metro Vancouver, the Health Authorities and local municipalities will review communications protocols in the event of an elevated turbidity event. Meanwhile, the District continues to follow an existing turbidity response plan, which was developed in cooperation with the VCHA. The approach understands the need to increase and maintain chlorine dosage rates and residuals during periods of elevated turbidity while minimizing the levels of disinfection by-products whenever possible.

The following actions will be taken regarding turbidity in source waters in the event of a plant bypass.

1. The District will conduct regular sampling of Eagle Lake and Montizambert sources to monitor turbidity.
2. The District will take into consideration the effectiveness of increased chlorine dosage, the chlorine contact time, the source of turbidity, and the quality of the Metro Vancouver supply in its response to minimizing the amount of turbidity entering the water system.
3. A turbidity level of >1 NTU will be the trigger for municipal operational actions.
4. During turbidity events >1 NTU, the level of primary chlorination at Eagle Lake and Montizambert sources and at any secondary chlorination points will be increased accordingly.
5. During turbidity events of >5 NTU, a rigorous sampling program for microbiological activity throughout the distribution system will be conducted.

6. During turbidity events of >5 NTU, a public communication may be issued in consultation with the Health Authority.
7. During turbidity events >2 NTU and <3 NTU, the District will consider switching to the Metro Vancouver supply, depending on the turbidity of that supply.
8. During turbidity events >3 NTU, the District will switch to the Metro Vancouver supply, if possible, should the turbidity of that supply be <1 NTU.
9. Two consecutive days of turbidity <1 NTU shall pass before lowering chlorine dosage to pre-event levels.
10. During turbidity events of >5 NTU and while the Eagle Lake treatment plant is in bypass mode, the District may issue a boil water advisory in conjunction with the MHO to residents receiving such water.
11. After a turbidity event of >5 NTU, two consecutive days of turbidity <1 NTU shall pass before rescinding the water quality advisory.
12. In conjunction with monitoring turbidity and chlorine dosage,

8.4 Response to Interruption of Secondary Disinfection

The District's SCADA system constantly monitors the secondary chlorination stations. This system automatically alerts utility personnel of any disinfection failures, all of which are reported to VCH. Utility personnel carry out immediate repairs to equipment and if necessary, manual disinfection is established. Chlorine residual samples are taken at various points in the distribution system to ensure adequate free chlorine residual is present. In cases where chlorine residual is less than 0.2 mg/L, municipal crews will flush the affected area until the desired level is achieved.

Upon notification by Metro Vancouver Operations that an interruption in disinfection has occurred at Metro facilities, the municipality will immediately commence monitoring of chlorine residuals at strategic locations in the Metro Vancouver supply area. The monitoring will continue until disinfection is resumed and desired levels have been reached within the distribution system.

No manual disinfection protocol was implemented in 2023.

9.0 CONCLUSIONS

Overall, the residents of West Vancouver enjoy a very high quality of drinking water. The protected nature of the Eagle Lake and Montizambert Creek watersheds and the very low levels of E. coli, giardia, and cryptosporidium in the raw source waters are key factors.

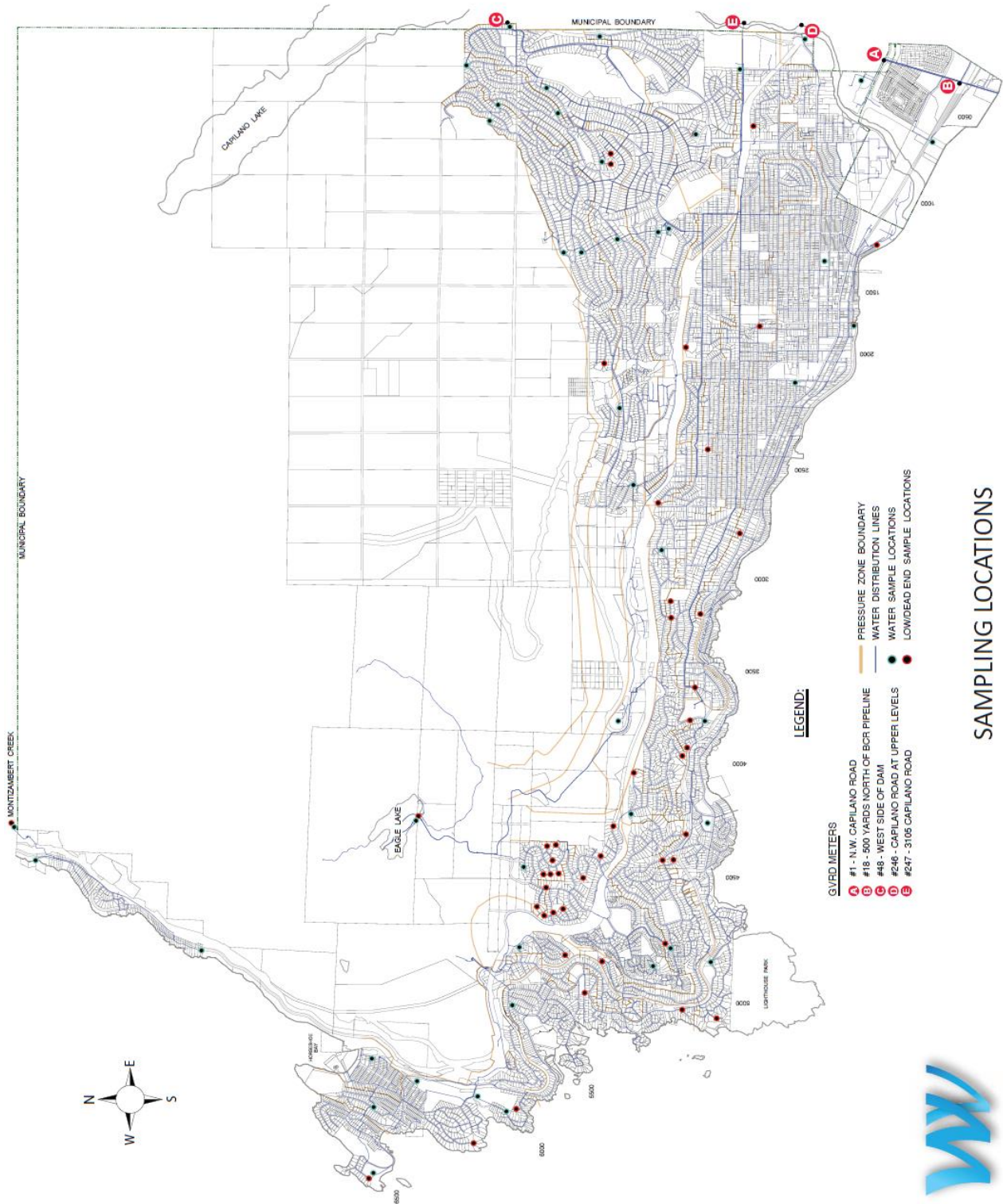
In 2023, the District's distribution water supply met all the requirements as outlined in the Guidelines for Canadian Drinking Water Quality.

District staff continues to take a balanced approach and employ best management practices in the operation and maintenance of the water system to maintain high water quality.

In closing, the District appreciates the good working relationship with public health staff and acknowledges the Health Authority as a partner in maintaining high quality drinking water in the municipality.

APPENDIX A

1. Map of Water System Sampling Locations



SAMPLING LOCATIONS



2. Water Sampling Locations by Address

DISTRICT OF WEST VANCOUVER					
WATER SAMPLE LOCATIONS					
Supply Source	Address	Description	Flow Type	Sample #	Bottle #
METRO VANCOUVER	1020 Groveland Road	Sample Kiosk	High	DmWWR-711	G711
Require 12 samples	510 Ballantree Road	Sample Kiosk	Medium	DmWWR-712	G712
Bi-weekly	670 Holmbury Place (DBP Sample Only)	House	Low/Dead End	DmWWR-713	G713
	The Dale & Marine	Sample Kiosk	High	DmWWR-716	G716
	111 - 18th Street (DBP Sample Only)	Hydrant	Low/Dead End	DmWWR-717	G717
	885 - 22nd Street	Church	High	DmWWR-718	G718
	2600 Chelsea Court	Pump House	Medium	DmWWR-719	G719
	243 Rabbit Lane	Sample Kiosk	Low/Dead End	DmWWR-761	G761
	111 Bridge Road	Sample Kiosk	Medium	DmWWR-764	G764
	5459 West Vista Court	House	Low/Dead End	DmWWR-765	G765
	2185 Gisby Street	Sample Kiosk	Medium	DmWWR-768	G768
	1210 Chartwell Drive	Sample Kiosk	High	DmWWR-769	G769
	3828 Bayridge Avenue	Sample Kiosk	High	DmWWR-770	G770
	6406 Bruce St.	House	Medium	DmWWR-771	G771
	6470 Madrona Crescent	Reservoir	Medium	DmWWR-772	G772
	Whycliffe Park	Sample Kiosk	Low/Dead End	DmWWR-773	G773
	6117 Glen Eagles Drive	Sample Kiosk	High	DmWWR-774	G774
	3755 Cypress Bowl Road	Sample Kiosk	Medium	DmWWR-776	G776
	6190 Marine Drive	Sample Kiosk	Medium	DmWWR-778	G778
	1370 Burnside Road	Pump House	High	DmWWR-779	G779
	5634 Westhaven Road	Sample Kiosk	Medium	DmWWR-780	G780
	4520 Almondel Place	PRV Station	Medium	DmWWR-783	G783
	5759 Primrose Place	Sample Kiosk	Medium	DmWWR-784	G784
	4820 Headland Drive	Hydrant	High	DmWWR-785	G785
	1158 Millstream Road	Sample Kiosk	High	DmWWR-786	G786
	2711 Willoughby Road	Sample Kiosk	High	DmWWR-787	G787
	1551 Vinson Creek Road	Pump House	High	DmWWR-788	G788
	19 Glenmore Drive	Pump House	High	DmWWR-790	G790
	200 Keith Road	Klee Wyck Nursery	High	DmWWR-791	G791
	76 Bonnymuir Drive	Pump House	Medium	DmWWR-792	G792
	559 Kildonan Road	Sample Kiosk	Low/Dead End	DmWWR-793	G793
	702 Barnham Road	Sample Kiosk	Medium	DmWWR-794	G794
	620 Kenwood Road	Sample Kiosk	Medium	DmWWR-795	G795
	315 Mathers Avenue	House	High	DmWWR-796	G796
	395 Klahanie Court	Sample Kiosk	Medium	DmWWR-797	G797
	965 Cross Creek Road	Pump House	High	DmWWR-880	G880
	4778 Woodgreen Dr.	Sample Kiosk	High	DmWWR-710	G710
Sample locations may deviate slightly if sampling point is not accessible.					
Sampling Stations by Flow:	10% - Source	10% - Low Flow/Dead End	40% - Medium Flow	40% - High Flow	

DISTRICT OF WEST VANCOUVER					
WATER SAMPLE LOCATIONS					
Supply Source	Address	Description	Flow Type	Sample #	Bottle #
Eagle Lake	1020 Groveland Road	Sample Kiosk	High	DmWEAG-711	E711
Require 12/13 samples	510 Ballantree Road	Sample Kiosk	Medium	DmWEAG-712	E712
Bi - Weekly	670 Holmbury Place (DBP Sample Only)	House	Low/Dead End	DmWEAG-713	E713
	The Dale & Marine	Sample Kiosk	High	DmWEAG-716	E716
	2600 Chelsea Court	Pump House	Medium	DmWEAG-719	E719
	243 Rabbit Lane	Sample Kiosk	Low/Dead End	DmWEAG-761	E761
	5459 West Vista Court	House	Low	DmWEAG-765	E765
	2185 Gisby Street	Sample Kiosk	Medium	DmWEAG-768	E768
	4778 Woodgreen Drive	Sample Kiosk	High	DmWEAG-710	E710
	1210 Chartwell Drive	Sample Kiosk	High	DmWEAG-769	E769
	3828 Bayridge Avenue	Sample Kiosk	High	DmWEAG-770	E770
	6406 Bruce Street	House	Medium	DmWEAG-771	E771
	6470 Madrona Crescent	Reservoir	Medium	DmWEAG-772	E772
	Whycliffe Park	Sample Kiosk	Low/Dead End	DmWEAG-773	E773
	6117 Gleneagles Drive	Sample Kiosk	High	DmWEAG-774	E774
	3755 Cypress Bowl Road	Sample Kiosk	Medium	DmWEAG-776	E776
	6190 Marine Drive	Sample Kiosk	Medium	DmWEAG-778	E778
	1370 Burnside Road	Pump House	High	DmWEAG-779	E779
	5634 Westhaven Road	Sample Kiosk	Medium	DmWEAG-780	E780
	4520 Almond Place	PRV Station	Medium	DmWEAG-783	E783
	5759 Primrose Place	Sample Kiosk	Medium	DmWEAG-784	E784
	4820 Headland Drive	Hydrant	High	DmWEAG-785	E785
	1158 Millstream Road	Sample Kiosk	High	DmWEAG-786	E786
	2711 Willoughby Road	Sample Kiosk	High	DmWEAG-787	E787
	1551 Vinson Creek Road	Pump House	High	DmWEAG-788	E788
	19 Glenmore Drive	Pump House	High	DmWEAG-790	E790
	76 Bonnymuir Drive	Pump House	Medium	DmWEAG-792	E792
	559 Kildonan Road	Sample Kiosk	Low/Dead End	DmWEAG-793	E793
	702 Barnham Road	Sample Kiosk	Medium	DmWEAG-794	E794
	620 Kenwood Road	Sample Kiosk	Medium	DmWEAG-795	E795
	315 Mathers Avenue	House	High	DmWEAG-796	E796
	965 Cross Creek Road	Pump House	High	DmWEAG-880	E880
	Eagle Lake ***	Source	Source	DmWEAG-LK1	E-LK1
Montizambert Creek					
	8005 Pasco Road	Sample Kiosk	Dead End	DmWMTZ-781	MZ-781
	8995 Lawrence Way	Sample Kiosk	Dead End	DmWMTZ-782	MZ-782
	Montizambert Creek ***	Source	Source	DmWMZ-CK1	MZ-CK1
Metals Analysis					
Semi - annual	8995 Lawrence Way	Marina - Hose Bib		DmWMZ-782	MZ-782
	Gleneagles Elementary School	Internal Faucet		DmWEAG/MVR-789	E/G-789
	Cypress Park Elementary School	Internal Faucet		DmWEAG/MVR-798	E/G-798
	Hollyburn Elementary School	Internal Faucet		DmWVR-799	G-799
Sample locations may deviate slightly if sampling point is not accessible.					
*** Denotes source sites are sampled semi-annually for detailed analysis.					
Sampling Stations by Flow: 10% - Source 10% - Low Flow/Dead End 40% - Medium Flow 40% - High Flow					

APPENDIX B

1. Source Water Quality – Eagle Lake

Sample Name	Sample Type	Sample Description	Sampled Date	Ecoli (MPN/100mLs)	HPC (CFU/mL)	Temperature (°C)	Total Coliform (MPN/100mLs)	Turbidity (NTU)
WEAG-LK1	Grab	Eagle Lake Source	4-Jan-23	2	60	4	57	0.50
WEAG-LK1	Grab	Eagle Lake Source	16-Jan-23	10	440	5	55	0.30
WEAG-LK1	Grab	Eagle Lake Source	2-Feb-23	<1	200	4	6	0.28
WEAG-LK1	Grab	Eagle Lake Source	13-Feb-23	1	210	3	16	0.28
WEAG-LK1	Grab	Eagle Lake Source	27-Feb-23	<1	210	2	12	0.28
WEAG-LK1	Grab	Eagle Lake Source	13-Mar-23	<1	90	3	8	0.17
WEAG-LK1	Grab	Eagle Lake Source	27-Mar-23	<1	130	4	22	0.18
WEAG-LK1	Grab	Eagle Lake Source	12-Apr-23	<1	180	5	23	0.23
WEAG-LK1	Grab	Eagle Lake Source	24-Apr-23	<1	100	5	26	0.29
WEAG-LK1	Grab	Eagle Lake Source	8-May-23	<1	210	6	62	0.23
WEAG-LK1	Grab	Eagle Lake Source	24-May-23	<1	190	8	178	0.27
WEAG-LK1	Grab	Eagle Lake Source	5-Jun-23	<1	390	10	579	0.33
WEAG-LK1	Grab	Eagle Lake Source	19-Jun-23	<1	300	10	82	0.23
WEAG-LK1	Grab	Eagle Lake Source	17-Jul-23	<1	370	21	40	0.25
WEAG-LK1	Grab	Eagle Lake Source	31-Jul-23	<1	240	20	28	0.22
WEAG-LK1	Grab	Eagle Lake Source	14-Aug-23	<1	140	21	40	0.27
WEAG-LK1	Grab	Eagle Lake Source	28-Aug-23	<1	130	20	59	0.29
WEAG-LK1	Grab	Eagle Lake Source	11-Sep-23	<1	86	18	30	0.35
WEAG-LK1	Grab	Eagle Lake Source	25-Sep-23	2	120	14	38	0.78
WEAG-LK1	Grab	Eagle Lake Source	11-Oct-23	<1	170	12	36	0.68
WEAG-LK1	Grab	Eagle Lake Source	23-Oct-23	13	420	12	326	0.66
WEAG-LK1	Grab	Eagle Lake Source	6-Nov-23	<1	410	9	26	0.97
WEAG-LK1	Grab	Eagle Lake Source	20-Nov-23	1	320	7	40	0.49
WEAG-LK1	Grab	Eagle Lake Source	4-Dec-23	<1	190	5	50	0.36
WEAG-LK1	Grab	Eagle Lake Source	18-Dec-23	<1	NA	5	68	0.46

2. Source Water Quality – Montizambert Creek

Sample Name	Sample Type	Sample Description	Sampled date	Ecoli (MPN/100mLs)	HPC (CFU/mL)	Temperature (°C)	Total Coliform (MPN/100mLs)	Turbidity (NTU)
WMZ-CK1	Grab	Montizambert Creek Source Water	9-Jan-23	5	270	6	82	2.10
WMZ-CK1	Grab	Montizambert Creek Source Water	23-Jan-23	<1	130	5	11	1.20
WMZ-CK1	Grab	Montizambert Creek Source Water	6-Feb-23	2	160	6	11	1.10
WMZ-CK1	Grab	Montizambert Creek Source Water	21-Feb-23	<1	120	8	6	1.80
WMZ-CK1	Grab	Montizambert Creek Source Water	6-Mar-23	<1	160	2	4	0.21
WMZ-CK1	Grab	Montizambert Creek Source Water	20-Mar-23	<1	54	6	4	1.10
WMZ-CK1	Grab	Montizambert Creek Source Water	3-Apr-23	<1	130	3	6	1.40
WMZ-CK1	Grab	Montizambert Creek Source Water	17-Apr-23	<1	140	4	6	0.83
WMZ-CK1	Grab	Montizambert Creek Source Water	1-May-23	<1	130	8	9	3.50
WMZ-CK1	Grab	Montizambert Creek Source Water	15-May-23	<1	250	9	16	1.80
WMZ-CK1	Grab	Montizambert Creek Source Water	29-May-23	<1	240	7	46	1.20
WMZ-CK1	Grab	Montizambert Creek Source Water	12-Jun-23	<1	210	10	31	0.99
WMZ-CK1	Grab	Montizambert Creek Source Water	28-Jun-23	<1	210	12	40	0.18
WMZ-CK1	Grab	Montizambert Creek Source Water	5-Jul-23	<1	750	12	112	0.26
WMZ-CK1	Grab	Montizambert Creek Source Water	10-Jul-23	<1	250	11	365	0.43
WMZ-CK1	Grab	Montizambert Creek Source Water	24-Jul-23	<1	540	14	579	0.34
WMZ-CK1	Grab	Montizambert Creek Source Water	9-Aug-23	13	1000	17	1203	0.89
WMZ-CK1	Grab	Montizambert Creek Source Water	21-Aug-23	<1	250	13	308	0.20
WMZ-CK1	Grab	Montizambert Creek Source Water	6-Sep-23	<1	230	13	157	0.21
WMZ-CK1	Grab	Montizambert Creek Source Water	18-Sep-23	<1	140	12	56	0.35
WMZ-CK1	Grab	Montizambert Creek Source Water	4-Oct-23	1	200	14	147	1.20
WMZ-CK1	Grab	Montizambert Creek Source Water	16-Oct-23	1	36	12	205	2.70
WMZ-CK1	Grab	Montizambert Creek Source Water	30-Oct-23	<1	150	6	56	0.47
WMZ-CK1	Grab	Montizambert Creek Source Water	15-Nov-23	2	150	7	26	2.40
WMZ-CK1	Grab	Montizambert Creek Source Water	27-Nov-23	<1	90	8	27	1.80
WMZ-CK1	Grab	Montizambert Creek Source Water	11-Dec-23	1	210	8	25	0.76

3. Source Water Chemistry

Sample Name		1st Half	2nd Half	1st Half	2nd Half
Sample Description		WVR-EAGLE_LAKE	WVR-EAGLE_LAKE	WVR-MONT_CREEK	WVR-MONT_CREEK
Sampled date		Eagle Lake Source	Eagle Lake Source	Montizambert Creek Source Water	Montizambert Creek Source Water
Sampled date		2023/02/13 8:16	2023/08/14 7:37	2023/02/13 8:54	2023/08/14 8:12
Sample Type	Unit	Grab	Grab	Grab	Grab
Alkalinity as CaCO3	mg/L	2	3.5	1.9	2.7
Aluminum Dissolved	µg/L	81	47	14400	7990
Aluminum Total	µg/L	87	62	16300	9580
Antimony Total	µg/L	<0.5	<0.5	<0.5	<0.5
Arsenic Total	µg/L	<0.5	<0.5	<0.5	<0.5
Barium Total	µg/L	2.9	3.5	1.8	2.9
Boron Total	µg/L	<10	<10	<10	<10
Cadmium Total	µg/L	<0.2	<0.2	<0.2	<0.2
Calcium Total	µg/L	954	1100	1820	3210
Carbon Organic - Dissolved	mg/L	2.1	1.7	1.8	0.8
Carbon Organic - Total	mg/L	2.1	1.7	2	0.8
Chloride	mg/L	0.9	0.7	12.9	11.9
Chromium Total	µg/L	0.07	<0.05	0.19	0.08
Color - Apparent	ACU	11	13	23	9
Color - True	TCU	3	10	8	8
Conductivity	µmhos/cm	11	13	48	48
Copper Total	µg/L	1.6	2.3	35.2	40.9
Cyanide Total	mg/L	<0.02	<0.02	<0.02	<0.02
Fluoride	mg/L	<0.05	<0.05	<0.05	<0.05
Hardness as CaCO3	mg/L	3.1	3.6	5.5	9.7
Iron Dissolved	µg/L	18	96	21	9
Iron Total	µg/L	34	139	27	11
Lead Total	µg/L	<0.5	<0.5	4.1	3.3
Magnesium Total	µg/L	174	193	227	411
Manganese Dissolved	µg/L	2.3	14.1	0.6	0.6
Manganese Total	µg/L	3.1	14.6	0.7	0.7
Mercury Total	µg/L	<0.05	<0.05	<0.05	<0.05
Nickel Total	µg/L	<0.5	<0.5	0.8	0.7
Nitrogen - Ammonia as N	mg/L	<0.02	<0.02	<0.02	<0.02
Nitrogen - Nitrate as N	mg/L	0.04	<0.01	0.02	0.11
Nitrogen - Nitrite as N	mg/L	<0.01	<0.01	<0.01	<0.01
pH	pH units	6.4	6.6	5.3	5.7
Phenol	mg/L	<0.005	<0.005	<0.005	<0.005
Phosphorus Dissolved	µg/L	<10	<10	<10	<10
Phosphorus Total	µg/L	<10	<10	<10	<10
Potassium Total	µg/L	134	138	158	272
Residue Total	mg/L	16	17	65	48
Residue Total Dissolved	mg/L	15	13	57	40
Residue Total Fixed	mg/L	9	8	38	33
Residue Total Volatile	mg/L	6	9	26	15
Selenium Total	µg/L	<0.5	<0.5	<0.5	<0.5
Silica as SiO2	mg/L	3.6	3.4	5.5	9
Silver Total	µg/L	<0.5	<0.5	<0.5	<0.5
Sodium Total	µg/L	939	984	1050	1930
Sulphate	mg/L	1	0.8	2.1	4.1
UV Absorbance 254 nm	Abs/cm	0.041	0.065	0.077	0.038
Zinc Total	µg/L	<3.0	3.3	61.4	87.8

APPENDIX C

1. Semi Annual Metals Monitoring Results – Water Distribution

			1st Half	2nd Half	1st Half	2nd Half
Sample Name			WEAG-789	WEAG-789	WMZ-782	WMZ-782
Sample Location			Gleneagles Elementary 6350 Marine Drive	Gleneagles Elementary 6350 Marine Drive	8995 Lawrence Way, Mtz Creek	8995 Lawrence Way, Mtz Creek
Sample Date			2023/02/14 9:15	2023/09/12 10:00	2023/02/14 8:30	2023/09/12 9:30
Canadian Guideline			Grab Sample	Grab Sample	Grab Sample	Grab Sample
Parameter	Limit	Reason				
Aluminium Total (µg/L)	2900	Aesthetic	73	70	14	13
Antimony Total (µg/L)	6	Health	<0.5	<0.5	<0.5	<0.5
Arsenic Total (µg/L)	10 (ALARA)	Health	<0.5	<0.5	<0.5	<0.5
Barium Total (µg/L)	2000	Health	2.2	3.7	4.8	6.5
Boron Total (µg/L)	5000	Health	<10	<10	<10	<10
Cadmium Total (µg/L)	7	Health	<0.2	<0.2	<0.2	<0.2
Calcium Total (µg/L)	none		1100	1370	1870	3890
Chromium Total (µg/L)	50	Health	0.05	<0.05	0.05	<0.05
Cobalt Total (µg/L)	none		<0.5	<0.5	<0.5	<0.5
Copper Total (µg/L)	2000	Health	8.7	26.1	6	1.7
Iron Total (µg/L)	≤ 300	Aesthetic	6	17	606	79
Lead Total (µg/L)	5 (ALARA)	Health	<0.5	<0.5	<0.5	<0.5
Magnesium Total (µg/L)	none		162	196	211	466
Manganese Total (µg/L)	120	Health	2.5	7.7	5	0.9
Mercury Total (µg/L)	1.0	Health	<0.05	<0.05	<0.05	<0.05
Molybdenum Total (µg/L)	none		<0.5	<0.5	<0.5	1.6
Nickel Total (µg/L)	none		<0.5	<0.5	<0.5	<0.5
Potassium Total (µg/L)	none		152	161	153	301
Selenium Total (µg/L)	50	Health	<0.5	<0.5	<0.5	<0.5
Silver Total (µg/L)	none		<0.5	<0.5	<0.5	<0.5
Sodium Total (µg/L)	≤ 200,000	Aesthetic	4330	4630	4540	5070
Zinc Total (µg/L)	≤ 5000	Aesthetic	<3.0	<3.0	<3.0	<3.0

			1st Half	2nd Half	1st Half	2nd Half
Sample Name			WVR-798	WVR-798	WVR-799	WVR-799
Sample Location			Cypress Park Elementary	Cypress Park Elementary	Hollyburn Elementary	Hollyburn Elementary
Sample Date			2023/02/14 10:00	2023/09/12 9:30	2023/02/14 10:45	2023/09/12 10:00
Canadian Guideline			Grab Sample	Grab Sample	Grab Sample	Grab Sample
Parameter	Limit	Reason				
Aluminium Total (µg/L)	2900	Aesthetic	42	59	39	48
Antimony Total (µg/L)	6	Health	<0.5	<0.5	<0.5	<0.5
Arsenic Total (µg/L)	10 (ALARA)	Health	<0.5	<0.5	<0.5	<0.5
Barium Total (µg/L)	2000	Health	2.3	2.8	2.5	2.5
Boron Total (µg/L)	5000	Health	<10	<10	<10	<10
Cadmium Total (µg/L)	7	Health	<0.2	<0.2	<0.2	<0.2
Calcium Total (µg/L)	none		8920	8130	9610	8170
Chromium Total (µg/L)	50	Health	0.05	<0.05	0.07	<0.05
Cobalt Total (µg/L)	none		<0.5	<0.5	<0.5	<0.5
Copper Total (µg/L)	2000	Health	11.7	24.3	14.8	15.7
Iron Total (µg/L)	≤ 300	Aesthetic	50	11	14	29
Lead Total (µg/L)	5 (ALARA)	Health	<0.5	<0.5	<0.5	<0.5
Magnesium Total (µg/L)	none		208	220	244	225
Manganese Total (µg/L)	120	Health	4	7.3	3.6	11.5
Mercury Total (µg/L)	1.0	Health	<0.05	<0.05	<0.05	<0.05
Molybdenum Total (µg/L)	none		<0.5	<0.5	<0.5	<0.5
Nickel Total (µg/L)	none		<0.5	<0.5	<0.5	<0.5
Potassium Total (µg/L)	none		178	215	176	214
Selenium Total (µg/L)	50	Health	<0.5	<0.5	<0.5	<0.5
Silver Total (µg/L)	none		<0.5	<0.5	<0.5	<0.5
Sodium Total (µg/L)	≤ 200,000	Aesthetic	1610	1800	1580	1740
Zinc Total (µg/L)	≤ 5000	Aesthetic	<3.0	<3.0	<3.0	<3.0

2. 2023 Disinfection By-Products Quarterly Averages

Sample	Date Sampled	Total THM Quarterly Average (Guideline Limit 100 ppb)	Total HAA Quarterly Average (Guideline Limit 80 ppb)
WEAG-772	27-Jan-23	64	36
WEAG-772	30-May-23	59	34
WEAG-772	22-Aug-23	52	32
WEAG-772	28-Nov-23	55	34
WEAG-773	27-Jan-23	87	40
WEAG-773	30-May-23	79	40
WEAG-773	22-Aug-23	72	42
WEAG-773	28-Nov-23	77	40
WEAG-776	27-Jan-23	47	26
WEAG-776	30-May-23	44	22
WEAG-776	22-Aug-23	35	19
WEAG-776	28-Nov-23	40	21
WEAG-778	27-Jan-23	59	36
WEAG-778	30-May-23	55	33
WEAG-778	22-Aug-23	49	31
WEAG-778	28-Nov-23	55	34
WMZ-781	27-Jan-23	24	18
WMZ-781	30-May-23	33	26
WMZ-781	22-May-23	41	32
WMZ-781	28-Nov-23	48	34
WMZ-782	27-Jan-23	18	14
WMZ-782	30-May-23	19	15
WMZ-782	22-May-23	23	18
WMZ-782	28-Nov-23	25	21
WVR-713	27-Jan-23	41	26
WVR-713	30-May-23	32	18
WVR-713	22-Aug-23	37	19
WVR-713	28-Nov-23	40	19
WVR-716	27-Jan-23	63	42
WVR-716	30-May-23	59	39
WVR-716	22-Aug-23	56	37
WVR-716	28-Nov-23	61	38
WVR-717	27-Jan-23	29	14
WVR-717	30-May-23	28	14
WVR-717	22-Aug-23	30	14
WVR-717	28-Nov-23	32	16
WVR-764	27-Jan-23	23	12
WVR-764	30-May-23	22	12
WVR-764	22-Aug-23	25	12
WVR-764	28-Nov-23	26	13

3. Water Sampling Results

Sample Name	Sample Description	Sampled Date	Sample Type	Chlorine Free mg/L	Temperature °C	HPC CFU/mL	Total Coliform CFU/100mLs	Ecoli CFU/100mLs	Turbidity NTU
WVR-711	1020 Groveland Road	4-Jan-23	GRAB	0.8	5	2	<1	<1	0.29
WVR-711	1020 Groveland Road	2-Feb-23	GRAB	0.79	6	2	<1	<1	0.12
WVR-711	1020 Groveland Road	27-Feb-23	GRAB	0.96	4	<2	<1	<1	0.26
WVR-711	1020 Groveland Road	27-Mar-23	GRAB	1.13	5	<2	<1	<1	0.3
WVR-711	1020 Groveland Road	24-Apr-23	GRAB	0.94	7	<2	<1	<1	0.19
WVR-711	1020 Groveland Road	24-May-23	GRAB	0.89	9	2	<1	<1	0.17
WVR-711	1020 Groveland Road	19-Jun-23	GRAB	0.72	10	2	<1	<1	0.17
WVR-711	1020 Groveland Road	17-Jul-23	GRAB	0.73	15	2	<1	<1	0.23
WVR-711	1020 Groveland Road	14-Aug-23	GRAB	0.64	17	4	<1	<1	0.13
WVR-711	1020 Groveland Road	11-Sep-23	GRAB	0.62	17	10	<1	<1	0.2
WVR-711	1020 Groveland Road	11-Oct-23	GRAB	1	14	6	-	-	0.19
WVR-711	1020 Groveland Road	6-Nov-23	GRAB	0.7	11	6	<1	<1	0.2
WVR-711	1020 Groveland Road	4-Dec-23	GRAB	0.69	7	<2	<1	<1	0.11
WVR-712	510 Ballantree Road	4-Jan-23	GRAB	0.53	5	2	<1	<1	0.12
WVR-712	510 Ballantree Road	2-Feb-23	GRAB	0.4	6	2	<1	<1	0.14
WVR-712	510 Ballantree Road	27-Feb-23	GRAB	0.48	6	2	<1	<1	0.11
WVR-712	510 Ballantree Road	27-Mar-23	GRAB	0.44	6	10	<1	<1	0.12
WVR-712	510 Ballantree Road	24-Apr-23	GRAB	0.34	7	6	<1	<1	0.14
WVR-712	510 Ballantree Road	24-May-23	GRAB	0.36	9	<2	<1	<1	0.16
WVR-712	510 Ballantree Road	19-Jun-23	GRAB	0.39	10	4	<1	<1	0.15
WVR-712	510 Ballantree Road	17-Jul-23	GRAB	0.4	20	8	<1	<1	0.2
WVR-712	510 Ballantree Road	14-Aug-23	GRAB	0.4	17	6	<1	<1	0.15
WVR-712	510 Ballantree Road	11-Sep-23	GRAB	0.32	17	4	<1	<1	0.12
WVR-712	510 Ballantree Road	11-Oct-23	GRAB	0.28	14	8	-	-	0.15
WVR-712	510 Ballantree Road	6-Nov-23	GRAB	0.22	11	54	<1	<1	0.16
WVR-712	510 Ballantree Road	4-Dec-23	GRAB	0.29	7	6	<1	<1	0.11
WVR-718	885 - 22nd Street	23-Jan-23	GRAB	0.51	9	10	<1	<1	0.14
WVR-718	885 - 22nd Street	21-Feb-23	GRAB	0.57	7	<2	<1	<1	0.1
WVR-718	885 - 22nd Street	20-Mar-23	GRAB	0.63	8	2	<1	<1	0.13
WVR-718	885 - 22nd Street	17-Apr-23	GRAB	0.58	6	10	<1	<1	0.13
WVR-718	885 - 22nd Street	15-May-23	GRAB	0.61	11	4	<1	<1	0.28
WVR-718	885 - 22nd Street	12-Jun-23	GRAB	0.56	17	4	<1	<1	0.15
WVR-718	885 - 22nd Street	10-Jul-23	GRAB	0.78	15	6	<1	<1	0.19
WVR-718	885 - 22nd Street	9-Aug-23	GRAB	0.4	19	10	<1	<1	0.14
WVR-718	885 - 22nd Street	6-Sep-23	GRAB	0.69	18	22	<1	<1	0.16
WVR-718	885 - 22nd Street	4-Oct-23	GRAB	0.57	17	16	-	-	0.21
WVR-718	885 - 22nd Street	30-Oct-23	GRAB	0.58	10	<2	-	-	0.19
WVR-718	885 - 22nd Street	27-Nov-23	GRAB	0.54	8	16	<1	<1	0.19
WVR-761	243 Rabbit Lane	16-Jan-23	GRAB	0.46	6	6	<1	<1	0.12
WVR-761	243 Rabbit Lane	13-Mar-23	GRAB	0.51	5	<2	<1	<1	0.16
WVR-761	243 Rabbit Lane	12-Apr-23	GRAB	0.46	6	2	<1	<1	0.17
WVR-761	243 Rabbit Lane	8-May-23	GRAB	0.42	10	6	<1	<1	0.15
WVR-761	243 Rabbit Lane	5-Jun-23	GRAB	0.27	11	58	<1	<1	0.24
WVR-761	243 Rabbit Lane	5-Jul-23	GRAB	0.3	16	38	<1	<1	0.18
WVR-761	243 Rabbit Lane	31-Jul-23	GRAB	0.39	20	14	<1	<1	0.12
WVR-761	243 Rabbit Lane	28-Aug-23	GRAB	0.37	20	18	<1	<1	0.22
WVR-761	243 Rabbit Lane	25-Sep-23	GRAB	0.52	16	4	<1	<1	0.15
WVR-761	243 Rabbit Lane	23-Oct-23	GRAB	0.32	14	26	-	-	0.23
WVR-761	243 Rabbit Lane	20-Nov-23	GRAB	0.26	10	130	<1	<1	0.37
WVR-761	243 Rabbit Lane	18-Dec-23	GRAB	0.43	7	NA	<1	<1	0.25

Sample Name	Sample Description	Sampled Date	Sample Type	Chlorine Free mg/L	Temperature °C	HPC CFU/mL	Total Coliform CFU/100mLs	Ecoli CFU/100mLs	Turbidity NTU
WVR-764	111 Bridge Road	16-Jan-23	GRAB	0.68	7	<2	<1	<1	0.25
WVR-764	111 Bridge Road	13-Feb-23	GRAB	0.94	6	<2	<1	<1	0.2
WVR-764	111 Bridge Road	13-Mar-23	GRAB	0.74	5	4	<1	<1	0.14
WVR-764	111 Bridge Road	12-Apr-23	GRAB	0.79	6	2	<1	<1	0.17
WVR-764	111 Bridge Road	8-May-23	GRAB	0.79	8	2	<1	<1	0.28
WVR-764	111 Bridge Road	5-Jun-23	GRAB	0.71	10	<2	<1	<1	0.21
WVR-764	111 Bridge Road	5-Jul-23	GRAB	0.74	12	<2	<1	<1	0.31
WVR-764	111 Bridge Road	31-Jul-23	GRAB	0.77	20	<2	<1	<1	0.16
WVR-764	111 Bridge Road	28-Aug-23	GRAB	0.76	17	<2	<1	<1	0.13
WVR-764	111 Bridge Road	25-Sep-23	GRAB	0.97	17	<2	<1	<1	0.17
WVR-764	111 Bridge Road	23-Oct-23	GRAB	0.48	14	10	-	-	0.12
WVR-764	111 Bridge Road	20-Nov-23	GRAB	0.73	10	<2	<1	<1	0.3
WVR-764	111 Bridge Road	18-Dec-23	GRAB	0.68	7	NA	<1	<1	0.16
WVR-768	2185 Gisby Street	13-Feb-23	GRAB	1.28	6	<2	<1	<1	0.11
WVR-786	1158 Millstream Road	13-Feb-23	GRAB	1.07	5	<2	<1	<1	0.11
WVR-787	2711 Willoughby Road	13-Feb-23	GRAB	0.8	6	<2	<1	<1	0.17
WVR-788	1551 Vinson Creek Road	13-Feb-23	GRAB	1.16	5	<2	<1	<1	0.09
WVR-790	19 Glenmore Drive	4-Jan-23	GRAB	0.64	5	<2	<1	<1	0.17
WVR-790	19 Glenmore Drive	16-Jan-23	GRAB	0.6	9	<2	<1	<1	0.22
WVR-790	19 Glenmore Drive	2-Feb-23	GRAB	0.59	6	<2	<1	<1	0.14
WVR-790	19 Glenmore Drive	13-Feb-23	GRAB	0.3	9	4	<1	<1	0.32
WVR-790	19 Glenmore Drive	27-Feb-23	GRAB	0.67	5	<2	<1	<1	0.12
WVR-790	19 Glenmore Drive	13-Mar-23	GRAB	0.68	6	<2	<1	<1	0.12
WVR-790	19 Glenmore Drive	27-Mar-23	GRAB	0.52	7	<2	<1	<1	0.19
WVR-790	19 Glenmore Drive	12-Apr-23	GRAB	0.64	6	4	<1	<1	0.21
WVR-790	19 Glenmore Drive	24-Apr-23	GRAB	0.64	6	<2	<1	<1	0.3
WVR-790	19 Glenmore Drive	8-May-23	GRAB	0.56	8	<2	<1	<1	0.19
WVR-790	19 Glenmore Drive	24-May-23	GRAB	0.83	9	2	<1	<1	0.22
WVR-790	19 Glenmore Drive	5-Jun-23	GRAB	0.61	11	2	<1	<1	0.27
WVR-790	19 Glenmore Drive	19-Jun-23	GRAB	0.74	10	<2	<1	<1	0.15
WVR-790	19 Glenmore Drive	5-Jul-23	GRAB	0.66	15	<2	<1	<1	0.16
WVR-790	19 Glenmore Drive	17-Jul-23	GRAB	0.71	15	<2	<1	<1	0.15
WVR-790	19 Glenmore Drive	31-Jul-23	GRAB	0.77	15	4	<1	<1	0.14
WVR-790	19 Glenmore Drive	14-Aug-23	GRAB	0.71	17	<2	<1	<1	0.14
WVR-790	19 Glenmore Drive	28-Aug-23	GRAB	0.74	17	2	<1	<1	0.12
WVR-790	19 Glenmore Drive	11-Sep-23	GRAB	0.7	17	<2	<1	<1	0.12
WVR-790	19 Glenmore Drive	25-Sep-23	GRAB	0.63	16	<2	<1	<1	0.13
WVR-790	19 Glenmore Drive	11-Oct-23	GRAB	0.66	14	<2	-	-	0.2
WVR-790	19 Glenmore Drive	23-Oct-23	GRAB	0.62	14	<2	-	-	0.18
WVR-790	19 Glenmore Drive	6-Nov-23	GRAB	0.54	10	2	<1	<1	0.23
WVR-790	19 Glenmore Drive	20-Nov-23	GRAB	0.55	10	<2	<1	<1	0.28
WVR-790	19 Glenmore Drive	4-Dec-23	GRAB	0.74	7	<2	<1	<1	0.12
WVR-790	19 Glenmore Drive	18-Dec-23	GRAB	0.49	7	NA	<1	<1	0.16
WVR-791	200 Keith Road	4-Jan-23	GRAB	0.57	4	<2	<1	<1	0.19
WVR-791	200 Keith Road	2-Feb-23	GRAB	0.78	5	<2	<1	<1	0.18
WVR-791	200 Keith Road	27-Feb-23	GRAB	0.95	2	<2	<1	<1	0.21
WVR-791	200 Keith Road	27-Mar-23	GRAB	0.92	3	<2	<1	<1	0.16
WVR-791	200 Keith Road	24-Apr-23	GRAB	0.77	7	<2	<1	<1	0.23
WVR-791	200 Keith Road	24-May-23	GRAB	0.85	8	<2	<1	<1	0.2
WVR-791	200 Keith Road	19-Jun-23	GRAB	0.82	10	<2	<1	<1	0.21
WVR-791	200 Keith Road	17-Jul-23	GRAB	0.75	15	<2	<1	<1	0.15
WVR-791	200 Keith Road	14-Aug-23	GRAB	0.76	18	<2	<1	<1	0.15
WVR-791	200 Keith Road	11-Sep-23	GRAB	0.82	17	4	<1	<1	0.19
WVR-791	200 Keith Road	11-Oct-23	GRAB	0.81	14	<2	-	-	0.19

Sample Name	Sample Description	Sampled Date	Sample Type	Chlorine Free mg/L	Temperature °C	HPC CFU/mL	Total Coliform CFU/100mLs	Ecoli CFU/100mLs	Turbidity NTU
WVR-791	200 Keith Road	6-Nov-23	GRAB	0.86	10	<2	<1	<1	0.18
WVR-791	200 Keith Road	4-Dec-23	GRAB	0.76	7	<2	<1	<1	0.15
WVR-792	76 Bonnymuir Drive	4-Jan-23	GRAB	0.58	5	<2	<1	<1	0.13
WVR-792	76 Bonnymuir Drive	16-Jan-23	GRAB	0.71	7	<2	<1	<1	0.14
WVR-792	76 Bonnymuir Drive	2-Feb-23	GRAB	0.65	6	<2	<1	<1	0.09
WVR-792	76 Bonnymuir Drive	13-Feb-23	GRAB	1.35	6	6	<1	<1	0.34
WVR-792	76 Bonnymuir Drive	27-Feb-23	GRAB	0.64	5	<2	<1	<1	0.17
WVR-792	76 Bonnymuir Drive	13-Mar-23	GRAB	0.97	5	2	<1	<1	0.16
WVR-792	76 Bonnymuir Drive	27-Mar-23	GRAB	0.56	6	<2	<1	<1	0.12
WVR-792	76 Bonnymuir Drive	12-Apr-23	GRAB	0.63	6	<2	<1	<1	0.18
WVR-792	76 Bonnymuir Drive	24-Apr-23	GRAB	0.49	8	2	<1	<1	0.16
WVR-792	76 Bonnymuir Drive	8-May-23	GRAB	0.53	9	4	<1	<1	0.21
WVR-792	76 Bonnymuir Drive	24-May-23	GRAB	0.72	9	2	<1	<1	0.22
WVR-792	76 Bonnymuir Drive	5-Jun-23	GRAB	0.62	11	2	<1	<1	0.39
WVR-792	76 Bonnymuir Drive	19-Jun-23	GRAB	0.68	10	2	<1	<1	0.19
WVR-792	76 Bonnymuir Drive	5-Jul-23	GRAB	0.7	13	<2	<1	<1	0.21
WVR-792	76 Bonnymuir Drive	17-Jul-23	GRAB	0.72	15	<2	<1	<1	0.21
WVR-792	76 Bonnymuir Drive	31-Jul-23	GRAB	0.76	17	2	<1	<1	0.14
WVR-792	76 Bonnymuir Drive	14-Aug-23	GRAB	0.7	17	<2	<1	<1	0.2
WVR-792	76 Bonnymuir Drive	28-Aug-23	GRAB	0.67	18	12	<1	<1	0.36
WVR-792	76 Bonnymuir Drive	11-Sep-23	GRAB	0.68	17	10	<1	<1	0.13
WVR-792	76 Bonnymuir Drive	25-Sep-23	GRAB	0.62	16	<2	<1	<1	0.18
WVR-792	76 Bonnymuir Drive	11-Oct-23	GRAB	0.64	14	2	-	-	0.16
WVR-792	76 Bonnymuir Drive	23-Oct-23	GRAB	0.61	14	<2	-	-	0.14
WVR-792	76 Bonnymuir Drive	6-Nov-23	GRAB	0.51	10	2	<1	<1	0.16
WVR-792	76 Bonnymuir Drive	20-Nov-23	GRAB	0.57	10	2	<1	<1	0.32
WVR-792	76 Bonnymuir Drive	4-Dec-23	GRAB	0.68	7	<2	<1	<1	0.12
WVR-792	76 Bonnymuir Drive	18-Dec-23	GRAB	0.51	7	NA	<1	<1	0.26
WVR-793	559 Kildonan Road	4-Jan-23	GRAB	0.46	5	2	<1	<1	0.09
WVR-793	559 Kildonan Road	2-Feb-23	GRAB	0.45	6	2	<1	<1	0.28
WVR-793	559 Kildonan Road	27-Feb-23	GRAB	0.5	4	<2	<1	<1	0.11
WVR-793	559 Kildonan Road	27-Mar-23	GRAB	0.53	5	<2	<1	<1	0.1
WVR-793	559 Kildonan Road	24-Apr-23	GRAB	0.39	6	<2	<1	<1	0.12
WVR-793	559 Kildonan Road	24-May-23	GRAB	0.46	9	18	<1	<1	0.13
WVR-793	559 Kildonan Road	19-Jun-23	GRAB	0.38	10	10	<1	<1	0.11
WVR-793	559 Kildonan Road	17-Jul-23	GRAB	0.33	18	48	<1	<1	0.1
WVR-793	559 Kildonan Road	14-Aug-23	GRAB	0.23	17	180	<1	<1	0.1
WVR-793	559 Kildonan Road	11-Sep-23	GRAB	0.35	18	110	<1	<1	0.18
WVR-793	559 Kildonan Road	11-Oct-23	GRAB	0.28	14	46	-	-	0.22
WVR-793	559 Kildonan Road	6-Nov-23	GRAB	0.29	10	28	<1	<1	0.24
WVR-793	559 Kildonan Road	4-Dec-23	GRAB	0.34	7	<2	<1	<1	0.12
WVR-794	702 Barnham Road	4-Jan-23	GRAB	0.64	6	<2	<1	<1	0.17
WVR-794	702 Barnham Road	2-Feb-23	GRAB	0.97	6	<2	<1	<1	0.11
WVR-794	702 Barnham Road	27-Feb-23	GRAB	0.73	5	<2	<1	<1	0.14
WVR-794	702 Barnham Road	27-Mar-23	GRAB	1.07	6	4	<1	<1	0.15
WVR-794	702 Barnham Road	24-Apr-23	GRAB	0.46	7	<2	<1	<1	0.2
WVR-794	702 Barnham Road	24-May-23	GRAB	0.69	9	6	<1	<1	0.17
WVR-794	702 Barnham Road	19-Jun-23	GRAB	0.71	10	4	<1	<1	0.19
WVR-794	702 Barnham Road	17-Jul-23	GRAB	0.75	15	2	<1	<1	0.16
WVR-794	702 Barnham Road	14-Aug-23	GRAB	0.54	17	12	<1	<1	0.19
WVR-794	702 Barnham Road	11-Sep-23	GRAB	0.73	17	8	<1	<1	0.17
WVR-794	702 Barnham Road	11-Oct-23	GRAB	0.58	14	2	-	-	0.15
WVR-794	702 Barnham Road	6-Nov-23	GRAB	0.57	11	8	<1	<1	0.23
WVR-794	702 Barnham Road	4-Dec-23	GRAB	0.68	7	<2	<1	<1	0.12

Sample Name	Sample Description	Sampled Date	Sample Type	Chlorine Free mg/L	Temperature °C	HPC CFU/mL	Total Coliform CFU/100mLs	Ecoli CFU/100mLs	Turbidity NTU
WVR-795	620 Kenwood Road	4-Jan-23	GRAB	0.39	5	10	<1	<1	0.29
WVR-795	620 Kenwood Road	2-Feb-23	GRAB	0.7	6	4	<1	<1	0.18
WVR-795	620 Kenwood Road	27-Feb-23	GRAB	0.65	5	2	<1	<1	0.76
WVR-795	620 Kenwood Road	27-Mar-23	GRAB	0.57	5	6	<1	<1	0.3
WVR-795	620 Kenwood Road	24-Apr-23	GRAB	0.59	7	4	<1	<1	0.34
WVR-795	620 Kenwood Road	24-May-23	GRAB	0.7	9	6	<1	<1	0.18
WVR-795	620 Kenwood Road	19-Jun-23	GRAB	0.7	10	6	<1	<1	0.23
WVR-795	620 Kenwood Road	17-Jul-23	GRAB	0.77	15	<2	<1	<1	0.12
WVR-795	620 Kenwood Road	14-Aug-23	GRAB	0.55	16	6	<1	<1	0.27
WVR-795	620 Kenwood Road	11-Sep-23	GRAB	0.7	17	4	<1	<1	0.18
WVR-795	620 Kenwood Road	11-Oct-23	GRAB	0.59	14	8	-	-	0.17
WVR-795	620 Kenwood Road	6-Nov-23	GRAB	0.58	11	14	<1	<1	0.21
WVR-795	620 Kenwood Road	4-Dec-23	GRAB	0.72	7	56	<1	<1	0.2
WVR-796	315 Mathers Avenue	4-Jan-23	GRAB	0.64	4	<2	<1	<1	0.13
WVR-796	315 Mathers Avenue	16-Jan-23	GRAB	0.79	6	<2	<1	<1	0.13
WVR-796	315 Mathers Avenue	2-Feb-23	GRAB	0.62	6	<2	<1	<1	0.15
WVR-796	315 Mathers Avenue	13-Feb-23	GRAB	0.75	5	<2	<1	<1	0.25
WVR-796	315 Mathers Avenue	27-Feb-23	GRAB	0.88	3	<2	<1	<1	0.12
WVR-796	315 Mathers Avenue	13-Mar-23	GRAB	0.64	4	<2	<1	<1	0.14
WVR-796	315 Mathers Avenue	27-Mar-23	GRAB	0.7	4	<2	<1	<1	0.24
WVR-796	315 Mathers Avenue	12-Apr-23	GRAB	0.77	8	<2	<1	<1	0.16
WVR-796	315 Mathers Avenue	24-Apr-23	GRAB	0.73	7	<2	<1	<1	0.18
WVR-796	315 Mathers Avenue	8-May-23	GRAB	0.72	9	<2	<1	<1	0.36
WVR-796	315 Mathers Avenue	24-May-23	GRAB	0.71	9	<2	<1	<1	0.29
WVR-796	315 Mathers Avenue	5-Jun-23	GRAB	0.64	12	<2	<1	<1	0.34
WVR-796	315 Mathers Avenue	19-Jun-23	GRAB	0.72	11	2	<1	<1	0.14
WVR-796	315 Mathers Avenue	5-Jul-23	GRAB	0.7	14	<2	<1	<1	0.2
WVR-796	315 Mathers Avenue	17-Jul-23	GRAB	0.76	16	<2	<1	<1	0.14
WVR-796	315 Mathers Avenue	31-Jul-23	GRAB	0.79	20	<2	<1	<1	0.21
WVR-796	315 Mathers Avenue	14-Aug-23	GRAB	0.78	19	<2	<1	<1	0.16
WVR-796	315 Mathers Avenue	28-Aug-23	GRAB	0.74	18	<2	<1	<1	0.13
WVR-796	315 Mathers Avenue	11-Sep-23	GRAB	0.81	17	2	<1	<1	0.12
WVR-796	315 Mathers Avenue	25-Sep-23	GRAB	0.95	18	4	<1	<1	0.15
WVR-796	315 Mathers Avenue	11-Oct-23	GRAB	0.82	15	<2	-	-	0.21
WVR-796	315 Mathers Avenue	23-Oct-23	GRAB	0.63	14	<2	-	-	0.14
WVR-796	315 Mathers Avenue	6-Nov-23	GRAB	0.76	10	2	<1	<1	0.21
WVR-796	315 Mathers Avenue	20-Nov-23	GRAB	0.76	10	<2	<1	<1	0.18
WVR-796	315 Mathers Avenue	4-Dec-23	GRAB	0.74	7	<2	<1	<1	0.16
WVR-796	315 Mathers Avenue	18-Dec-23	GRAB	0.64	8	NA	<1	<1	0.31
WVR-797	395 Klahanie Court	16-Jan-23	GRAB	0.84	7	<2	<1	<1	0.14
WVR-797	395 Klahanie Court	13-Feb-23	GRAB	0.43	6	18	<1	<1	0.12
WVR-797	395 Klahanie Court	13-Mar-23	GRAB	0.2	5	58	<1	<1	0.13
WVR-797	395 Klahanie Court	12-Apr-23	GRAB	0.58	6	210	<1	<1	0.18
WVR-797	395 Klahanie Court	8-May-23	GRAB	0.32	8	2600	<1	<1	0.26
WVR-797	395 Klahanie Court	5-Jun-23	GRAB	0.68	11	8	<1	<1	0.23
WVR-797	395 Klahanie Court	5-Jul-23	GRAB	0.48	14	22	<1	<1	0.32
WVR-797	395 Klahanie Court	31-Jul-23	GRAB	0.53	19	22	<1	<1	0.14
WVR-797	395 Klahanie Court	28-Aug-23	GRAB	0.75	18	140	<1	<1	0.15
WVR-797	395 Klahanie Court	25-Sep-23	GRAB	0.7	17	430	<1	<1	0.22
WVR-797	395 Klahanie Court	23-Oct-23	GRAB	0.51	14	4	-	-	0.12
WVR-797	395 Klahanie Court	20-Nov-23	GRAB	0.57	10	<2	<1	<1	0.21
WVR-797	395 Klahanie Court	18-Dec-23	GRAB	0.69	7	NA	<1	<1	0.27
WEAG-710	4782 Woodgreen Drive	23-Jan-23	GRAB	1.24	4	<2	<1	<1	0.06
WEAG-710	4782 Woodgreen Drive	21-Feb-23	GRAB	1.31	4	<2	<1	<1	0.07

Sample Name	Sample Description	Sampled Date	Sample Type	Chlorine Free mg/L	Temperature °C	HPC CFU/mL	Total Coliform CFU/100mLs	Ecoli CFU/100mLs	Turbidity NTU
WEAG-710	4782 Woodgreen Drive	20-Mar-23	GRAB	1.04	4	2	<1	<1	0.11
WEAG-710	4782 Woodgreen Drive	17-Apr-23	GRAB	1.5	6	<2	<1	<1	0.16
WEAG-710	4782 Woodgreen Drive	15-May-23	GRAB	1.41	9	<2	<1	<1	0.13
WEAG-710	4782 Woodgreen Drive	12-Jun-23	GRAB	1.5	13	<2	<1	<1	0.12
WEAG-710	4782 Woodgreen Drive	10-Jul-23	GRAB	1.02	20	6	<1	<1	0.2
WEAG-710	4782 Woodgreen Drive	9-Aug-23	GRAB	1.2	21	16	<1	<1	0.18
WEAG-710	4782 Woodgreen Drive	6-Sep-23	GRAB	1.42	18	18	<1	<1	0.11
WEAG-710	4782 Woodgreen Drive	4-Oct-23	GRAB	1.32	14	10	-	-	0.18
WEAG-710	4782 Woodgreen Drive	30-Oct-23	GRAB	1.38	8	2	-	-	0.19
WEAG-710	4782 Woodgreen Drive	27-Nov-23	GRAB	1.35	6	2	<1	<1	0.12
WEAG-716	The Dale & Marine	9-Jan-23	GRAB	0.82	7	<2	<1	<1	0.16
WEAG-716	The Dale & Marine	23-Jan-23	GRAB	0.81	6	<2	<1	<1	0.24
WEAG-716	The Dale & Marine	6-Feb-23	GRAB	0.76	8	2	<1	<1	0.17
WEAG-716	The Dale & Marine	21-Feb-23	GRAB	0.84	6	<2	<1	<1	0.12
WEAG-716	The Dale & Marine	6-Mar-23	GRAB	1.24	5	<2	<1	<1	0.2
WEAG-716	The Dale & Marine	20-Mar-23	GRAB	0.98	5	<2	<1	<1	0.16
WEAG-716	The Dale & Marine	3-Apr-23	GRAB	0.82	5	<2	<1	<1	0.13
WEAG-716	The Dale & Marine	17-Apr-23	GRAB	1.05	6	<2	<1	<1	0.19
WEAG-716	The Dale & Marine	1-May-23	GRAB	1.18	8	<2	<1	<1	0.3
WEAG-716	The Dale & Marine	15-May-23	GRAB	1.06	10	2	<1	<1	0.48
WEAG-716	The Dale & Marine	29-May-23	GRAB	1.11	12	<2	<1	<1	0.23
WEAG-716	The Dale & Marine	12-Jun-23	GRAB	1.09	16	<2	<1	<1	0.08
WEAG-716	The Dale & Marine	28-Jun-23	GRAB	1.25	16	<2	<1	<1	0.23
WEAG-716	The Dale & Marine	10-Jul-23	GRAB	0.98	20	<2	<1	<1	0.33
WEAG-716	The Dale & Marine	24-Jul-23	GRAB	0.98	20	4	<1	<1	0.21
WEAG-716	The Dale & Marine	9-Aug-23	GRAB	0.9	21	2	<1	<1	0.2
WEAG-716	The Dale & Marine	21-Aug-23	GRAB	1.03	20	6	<1	<1	0.14
WEAG-716	The Dale & Marine	6-Sep-23	GRAB	1.01	20	<2	<1	<1	0.24
WEAG-716	The Dale & Marine	18-Sep-23	GRAB	1.05	17	8	<1	<1	0.24
WEAG-716	The Dale & Marine	4-Oct-23	GRAB	0.99	15	<2	-	-	0.24
WEAG-716	The Dale & Marine	16-Oct-23	GRAB	0.72	13	6	-	-	0.22
WEAG-716	The Dale & Marine	30-Oct-23	GRAB	0.73	8	2	-	-	0.09
WEAG-716	The Dale & Marine	15-Nov-23	GRAB	0.62	10	<2	<1	<1	0.25
WEAG-716	The Dale & Marine	27-Nov-23	GRAB	0.81	8	4	<1	<1	0.24
WEAG-716	The Dale & Marine	11-Dec-23	GRAB	0.73	8	2	<1	<1	0.19
WEAG-719	2600 Chelsea Court	4-Jan-23	GRAB	1.21	5	<2	<1	<1	0.12
WEAG-719	2600 Chelsea Court	16-Jan-23	GRAB	1.59	5	<2	<1	<1	0.12
WEAG-719	2600 Chelsea Court	2-Feb-23	GRAB	0.92	6	<2	<1	<1	0.17
WEAG-719	2600 Chelsea Court	13-Feb-23	GRAB	1.45	5	<2	<1	<1	0.28
WEAG-719	2600 Chelsea Court	27-Feb-23	GRAB	1.19	5	<2	<1	<1	0.29
WEAG-719	2600 Chelsea Court	13-Mar-23	GRAB	1.4	5	<2	<1	<1	<0.06
WEAG-719	2600 Chelsea Court	27-Mar-23	GRAB	1.18	7	<2	<1	<1	0.29
WEAG-719	2600 Chelsea Court	12-Apr-23	GRAB	1.03	6	2	<1	<1	0.42
WEAG-719	2600 Chelsea Court	24-Apr-23	GRAB	0.99	7	2	<1	<1	0.47
WEAG-719	2600 Chelsea Court	8-May-23	GRAB	0.72	9	<2	<1	<1	0.29
WEAG-719	2600 Chelsea Court	24-May-23	GRAB	1.5	9	<2	<1	<1	0.08
WEAG-719	2600 Chelsea Court	5-Jun-23	GRAB	1.15	10	<2	<1	<1	0.15
WEAG-719	2600 Chelsea Court	19-Jun-23	GRAB	1.12	10	2	<1	<1	0.08
WEAG-719	2600 Chelsea Court	5-Jul-23	GRAB	0.88	18	2	<1	<1	0.17
WEAG-719	2600 Chelsea Court	17-Jul-23	GRAB	0.79	20	2	<1	<1	0.09
WEAG-719	2600 Chelsea Court	31-Jul-23	GRAB	0.83	17	2	<1	<1	0.1
WEAG-719	2600 Chelsea Court	14-Aug-23	GRAB	0.71	17	14	<1	<1	0.13
WEAG-719	2600 Chelsea Court	28-Aug-23	GRAB	0.92	20	4	<1	<1	0.09
WEAG-719	2600 Chelsea Court	11-Sep-23	GRAB	0.4	19	40	<1	<1	0.17

Sample Name	Sample Description	Sampled Date	Sample Type	Chlorine Free mg/L	Temperature °C	HPC CFU/mL	Total Coliform CFU/100mLs	Ecoli CFU/100mLs	Turbidity NTU
WEAG-719	2600 Chelsea Court	25-Sep-23	GRAB	0.71	17	16	<1	<1	0.23
WEAG-719	2600 Chelsea Court	11-Oct-23	GRAB	0.58	14	120	-	-	0.33
WEAG-719	2600 Chelsea Court	23-Oct-23	GRAB	0.44	14	80	-	-	0.23
WEAG-719	2600 Chelsea Court	6-Nov-23	GRAB	1.5	11	<2	<1	<1	0.13
WEAG-719	2600 Chelsea Court	20-Nov-23	GRAB	1.5	10	<2	<1	<1	0.89
WEAG-719	2600 Chelsea Court	4-Dec-23	GRAB	0.98	7	32	<1	<1	0.35
WEAG-719	2600 Chelsea Court	18-Dec-23	GRAB	1.08	7	NA	<1	<1	0.16
WEAG-761	243 Rabbit Lane	13-Feb-23	GRAB	0.5	6	2	<1	<1	0.24
WEAG-765	5459 West Vista Court	9-Jan-23	GRAB	0.94	7	<2	<1	<1	0.14
WEAG-765	5459 West Vista Court	6-Feb-23	GRAB	0.96	6	2	<1	<1	0.18
WEAG-765	5459 West Vista Court	6-Mar-23	GRAB	1.28	4	8	<1	<1	0.16
WEAG-765	5459 West Vista Court	3-Apr-23	GRAB	1.02	5	<2	<1	<1	0.11
WEAG-765	5459 West Vista Court	1-May-23	GRAB	1.2	8	6	<1	<1	0.14
WEAG-765	5459 West Vista Court	29-May-23	GRAB	1.11	12	2	<1	<1	0.17
WEAG-765	5459 West Vista Court	28-Jun-23	GRAB	1.24	15	4	<1	<1	0.23
WEAG-765	5459 West Vista Court	24-Jul-23	GRAB	1.18	21	26	<1	<1	0.32
WEAG-765	5459 West Vista Court	21-Aug-23	GRAB	1.11	20	2	<1	<1	0.16
WEAG-765	5459 West Vista Court	18-Sep-23	GRAB	1.01	17	<2	<1	<1	0.26
WEAG-765	5459 West Vista Court	16-Oct-23	GRAB	1.02	13	2	-	-	0.32
WEAG-765	5459 West Vista Court	15-Nov-23	GRAB	0.95	10	4	<1	<1	0.11
WEAG-765	5459 West Vista Court	11-Dec-23	GRAB	0.84	7	18	<1	<1	0.16
WEAG-768	2185 Gisby Street	16-Jan-23	GRAB	1.39	7	4	<1	<1	0.08
WEAG-768	2185 Gisby Street	13-Mar-23	GRAB	1.26	5	<2	<1	<1	<0.06
WEAG-768	2185 Gisby Street	12-Apr-23	GRAB	1.26	6	<2	<1	<1	0.09
WEAG-768	2185 Gisby Street	8-May-23	GRAB	0.75	9	<2	<1	<1	0.21
WEAG-768	2185 Gisby Street	5-Jun-23	GRAB	1.22	11	18	<1	<1	0.12
WEAG-768	2185 Gisby Street	5-Jul-23	GRAB	0.71	15	2	<1	<1	0.21
WEAG-768	2185 Gisby Street	31-Jul-23	GRAB	0.58	17	2	<1	<1	0.13
WEAG-768	2185 Gisby Street	28-Aug-23	GRAB	0.69	18	2	<1	<1	0.13
WEAG-768	2185 Gisby Street	25-Sep-23	GRAB	0.56	16	4	<1	<1	0.11
WEAG-768	2185 Gisby Street	23-Oct-23	GRAB	0.84	14	6	-	-	0.19
WEAG-768	2185 Gisby Street	20-Nov-23	GRAB	1.42	10	<2	<1	<1	0.21
WEAG-768	2185 Gisby Street	18-Dec-23	GRAB	1.17	7	NA	<1	<1	0.12
WEAG-769	1210 Chartwell Drive	23-Jan-23	GRAB	1.12	7	8	<1	<1	0.08
WEAG-769	1210 Chartwell Drive	21-Feb-23	GRAB	1.18	6	12	<1	<1	0.08
WEAG-769	1210 Chartwell Drive	20-Mar-23	GRAB	1.18	6	6	<1	<1	0.07
WEAG-769	1210 Chartwell Drive	17-Apr-23	GRAB	1.36	6	12	<1	<1	0.14
WEAG-769	1210 Chartwell Drive	15-May-23	GRAB	0.77	10	4	<1	<1	0.3
WEAG-769	1210 Chartwell Drive	12-Jun-23	GRAB	1.04	16	16	<1	<1	0.16
WEAG-769	1210 Chartwell Drive	10-Jul-23	GRAB	0.68	15	20	<1	<1	0.18
WEAG-769	1210 Chartwell Drive	9-Aug-23	GRAB	0.68	19	8	<1	<1	0.23
WEAG-769	1210 Chartwell Drive	6-Sep-23	GRAB	0.68	19	14	<1	<1	0.12
WEAG-769	1210 Chartwell Drive	4-Oct-23	GRAB	1.21	15	<2	-	-	0.18
WEAG-769	1210 Chartwell Drive	30-Oct-23	GRAB	1.13	8	2	-	-	0.1
WEAG-769	1210 Chartwell Drive	27-Nov-23	GRAB	1.09	8	4	<1	<1	0.22
WEAG-770	3828 Bayridge Avenue	9-Jan-23	GRAB	0.72	6	<2	<1	<1	0.2
WEAG-770	3828 Bayridge Avenue	23-Jan-23	GRAB	0.56	6	<2	<1	<1	0.18
WEAG-770	3828 Bayridge Avenue	6-Feb-23	GRAB	0.6	7	<2	<1	<1	0.17
WEAG-770	3828 Bayridge Avenue	21-Feb-23	GRAB	0.45	5	4	<1	<1	0.15
WEAG-770	3828 Bayridge Avenue	6-Mar-23	GRAB	0.76	4	<2	<1	<1	0.12
WEAG-770	3828 Bayridge Avenue	20-Mar-23	GRAB	0.68	5	<2	<1	<1	0.13
WEAG-770	3828 Bayridge Avenue	3-Apr-23	GRAB	0.54	5	<2	<1	<1	0.32
WEAG-770	3828 Bayridge Avenue	17-Apr-23	GRAB	0.61	6	<2	<1	<1	0.18
WEAG-770	3828 Bayridge Avenue	1-May-23	GRAB	0.58	8	<2	<1	<1	0.43

Sample Name	Sample Description	Sampled Date	Sample Type	Chlorine Free mg/L	Temperature °C	HPC CFU/mL	Total Coliform CFU/100mLs	Ecoli CFU/100mLs	Turbidity NTU
WEAG-770	3828 Bayridge Avenue	15-May-23	GRAB	0.64	10	2	<1	<1	0.35
WEAG-770	3828 Bayridge Avenue	29-May-23	GRAB	0.73	12	2	<1	<1	0.23
WEAG-770	3828 Bayridge Avenue	12-Jun-23	GRAB	0.59	16	2	<1	<1	0.16
WEAG-770	3828 Bayridge Avenue	28-Jun-23	GRAB	0.59	13	<2	<1	<1	0.11
WEAG-770	3828 Bayridge Avenue	10-Jul-23	GRAB	0.62	12	4	<1	<1	0.19
WEAG-770	3828 Bayridge Avenue	24-Jul-23	GRAB	0.35	18	4	<1	<1	0.17
WEAG-770	3828 Bayridge Avenue	9-Aug-23	GRAB	0.63	17	4	<1	<1	0.27
WEAG-770	3828 Bayridge Avenue	21-Aug-23	GRAB	0.7	17	8	<1	<1	0.17
WEAG-770	3828 Bayridge Avenue	6-Sep-23	GRAB	0.69	15	8	<1	<1	0.15
WEAG-770	3828 Bayridge Avenue	18-Sep-23	GRAB	0.51	17	40	<1	<1	0.11
WEAG-770	3828 Bayridge Avenue	4-Oct-23	GRAB	0.56	15	14	-	-	0.21
WEAG-770	3828 Bayridge Avenue	16-Oct-23	GRAB	0.31	13	410	-	-	0.18
WEAG-770	3828 Bayridge Avenue	30-Oct-23	GRAB	0.57	10	18	-	-	0.12
WEAG-770	3828 Bayridge Avenue	15-Nov-23	GRAB	0.47	10	16	<1	<1	0.13
WEAG-770	3828 Bayridge Avenue	27-Nov-23	GRAB	0.75	8	<2	<1	<1	0.17
WEAG-770	3828 Bayridge Avenue	11-Dec-23	GRAB	0.74	8	40	<1	<1	0.19
WEAG-771	6588 Royal Ave.	9-Jan-23	GRAB	0.87	7	<2	<1	<1	0.22
WEAG-771	6588 Royal Ave.	23-Jan-23	GRAB	0.84	6	2	<1	<1	0.16
WEAG-771	6588 Royal Ave.	6-Feb-23	GRAB	0.89	8	2	<1	<1	0.23
WEAG-771	6588 Royal Ave.	21-Feb-23	GRAB	0.91	6	<2	<1	<1	0.32
WEAG-771	6588 Royal Ave.	6-Mar-23	GRAB	1.11	5	<2	<1	<1	0.2
WEAG-771	6588 Royal Ave.	20-Mar-23	GRAB	1	5	<2	<1	<1	0.29
WEAG-771	6588 Royal Ave.	3-Apr-23	GRAB	0.93	6	<2	<1	<1	0.39
WEAG-771	6588 Royal Ave.	17-Apr-23	GRAB	1.03	7	4	<1	<1	0.35
WEAG-771	6588 Royal Ave.	1-May-23	GRAB	1.18	9	2	<1	<1	0.43
WEAG-771	6588 Royal Ave.	15-May-23	GRAB	1.02	11	2	<1	<1	0.38
WEAG-771	6588 Royal Ave.	29-May-23	GRAB	1.14	12	<2	<1	<1	0.13
WEAG-771	6588 Royal Ave.	12-Jun-23	GRAB	1.12	16	<2	<1	<1	0.16
WEAG-771	6588 Royal Ave.	28-Jun-23	GRAB	1.2	14	<2	<1	<1	0.17
WEAG-771	6588 Royal Ave.	10-Jul-23	GRAB	1.1	18	10	<1	<1	0.18
WEAG-771	6588 Royal Ave.	24-Jul-23	GRAB	1.01	22	26	<1	<1	0.16
WEAG-771	6588 Royal Ave.	9-Aug-23	GRAB	0.89	20	22	<1	<1	0.32
WEAG-771	6588 Royal Ave.	21-Aug-23	GRAB	0.61	22	12	<1	<1	0.16
WEAG-771	6588 Royal Ave.	6-Sep-23	GRAB	1.07	20	8	<1	<1	0.19
WEAG-771	6588 Royal Ave.	18-Sep-23	GRAB	1.14	17	2	<1	<1	0.31
WEAG-771	6588 Royal Ave.	4-Oct-23	GRAB	0.89	16	4	-	-	0.2
WEAG-771	6588 Royal Ave.	16-Oct-23	GRAB	0.67	13	4	-	-	0.38
WEAG-771	6588 Royal Ave.	30-Oct-23	GRAB	0.67	8	6	-	-	0.1
WEAG-771	6588 Royal Ave.	15-Nov-23	GRAB	0.64	10	6	<1	<1	0.2
WEAG-771	6588 Royal Ave.	27-Nov-23	GRAB	0.72	8	2	<1	<1	0.56
WEAG-771	6588 Royal Ave.	11-Dec-23	GRAB	0.99	9	2	<1	<1	0.28
WEAG-772	6470 Madrona Crescent	9-Jan-23	GRAB	0.88	6	<2	<1	<1	0.15
WEAG-772	6470 Madrona Crescent	23-Jan-23	GRAB	0.85	7	<2	<1	<1	0.13
WEAG-772	6470 Madrona Crescent	6-Feb-23	GRAB	0.91	8	2	<1	<1	0.17
WEAG-772	6470 Madrona Crescent	21-Feb-23	GRAB	0.92	5	<2	<1	<1	0.13
WEAG-772	6470 Madrona Crescent	6-Mar-23	GRAB	1.1	6	<2	<1	<1	0.17
WEAG-772	6470 Madrona Crescent	20-Mar-23	GRAB	1.01	5	<2	<1	<1	0.18
WEAG-772	6470 Madrona Crescent	3-Apr-23	GRAB	0.94	5	<2	<1	<1	0.26
WEAG-772	6470 Madrona Crescent	17-Apr-23	GRAB	1.02	6	<2	<1	<1	0.24
WEAG-772	6470 Madrona Crescent	1-May-23	GRAB	1.19	8	<2	<1	<1	0.18
WEAG-772	6470 Madrona Crescent	15-May-23	GRAB	1.04	9	2	<1	<1	0.26
WEAG-772	6470 Madrona Crescent	29-May-23	GRAB	1.15	8	<2	<1	<1	0.31
WEAG-772	6470 Madrona Crescent	12-Jun-23	GRAB	1.13	15	<2	<1	<1	0.13
WEAG-772	6470 Madrona Crescent	28-Jun-23	GRAB	1.22	13	<2	<1	<1	0.16

Sample Name	Sample Description	Sampled Date	Sample Type	Chlorine Free mg/L	Temperature °C	HPC CFU/mL	Total Coliform CFU/100mLs	Ecoli CFU/100mLs	Turbidity NTU
WEAG-772	6470 Madrona Crescent	10-Jul-23	GRAB	1.11	15	4	<1	<1	0.16
WEAG-772	6470 Madrona Crescent	24-Jul-23	GRAB	1.01	22	16	<1	<1	0.3
WEAG-772	6470 Madrona Crescent	9-Aug-23	GRAB	0.91	20	14	<1	<1	0.23
WEAG-772	6470 Madrona Crescent	21-Aug-23	GRAB	0.6	22	10	<1	<1	0.17
WEAG-772	6470 Madrona Crescent	6-Sep-23	GRAB	1.05	19	24	<1	<1	0.19
WEAG-772	6470 Madrona Crescent	18-Sep-23	GRAB	1.14	17	6	<1	<1	0.28
WEAG-772	6470 Madrona Crescent	4-Oct-23	GRAB	1	15	4	-	-	0.18
WEAG-772	6470 Madrona Crescent	16-Oct-23	GRAB	0.66	13	4	-	-	0.24
WEAG-772	6470 Madrona Crescent	30-Oct-23	GRAB	0.68	8	<2	-	-	0.11
WEAG-772	6470 Madrona Crescent	15-Nov-23	GRAB	0.65	10	6	<1	<1	0.13
WEAG-772	6470 Madrona Crescent	27-Nov-23	GRAB	0.7	8	2	<1	<1	0.2
WEAG-772	6470 Madrona Crescent	11-Dec-23	GRAB	1.05	8	<2	<1	<1	0.23
WEAG-773	Whytcliffe Park	9-Jan-23	GRAB	0.31	8	6	<1	<1	0.22
WEAG-773	Whytcliffe Park	6-Feb-23	GRAB	0.42	7	4	<1	<1	0.17
WEAG-773	Whytcliffe Park	6-Mar-23	GRAB	0.9	5	4	<1	<1	0.24
WEAG-773	Whytcliffe Park	3-Apr-23	GRAB	0.68	5	20	<1	<1	0.3
WEAG-773	Whytcliffe Park	1-May-23	GRAB	0.85	8	4	<1	<1	0.2
WEAG-773	Whytcliffe Park	29-May-23	GRAB	0.79	15	14	<1	<1	0.15
WEAG-773	Whytcliffe Park	28-Jun-23	GRAB	0.86	14	8	<1	<1	0.15
WEAG-773	Whytcliffe Park	24-Jul-23	GRAB	0.65	18	110	<1	<1	0.24
WEAG-773	Whytcliffe Park	21-Aug-23	GRAB	0.25	20	370	<1	<1	0.16
WEAG-773	Whytcliffe Park	18-Sep-23	GRAB	1.12	18	6	<1	<1	0.13
WEAG-773	Whytcliffe Park	16-Oct-23	GRAB	0.9	13	<2	-	-	0.15
WEAG-773	Whytcliffe Park	15-Nov-23	GRAB	0.67	9	<2	<1	<1	0.13
WEAG-773	Whytcliffe Park	11-Dec-23	GRAB	0.36	8	40	<1	<1	0.22
WEAG-774	6117 Gleneagles Drive	23-Jan-23	GRAB	1	6	<2	<1	<1	0.13
WEAG-774	6117 Gleneagles Drive	21-Feb-23	GRAB	0.86	5	<2	<1	<1	0.1
WEAG-774	6117 Gleneagles Drive	20-Mar-23	GRAB	1.14	5	2	<1	<1	0.08
WEAG-774	6117 Gleneagles Drive	17-Apr-23	GRAB	1.27	6	10	<1	<1	0.11
WEAG-774	6117 Gleneagles Drive	15-May-23	GRAB	1.03	10	<2	<1	<1	0.25
WEAG-774	6117 Gleneagles Drive	12-Jun-23	GRAB	1.33	14	<2	<1	<1	0.12
WEAG-774	6117 Gleneagles Drive	10-Jul-23	GRAB	1.11	20	<2	<1	<1	0.16
WEAG-774	6117 Gleneagles Drive	9-Aug-23	GRAB	1.05	21	<2	<1	<1	0.23
WEAG-774	6117 Gleneagles Drive	6-Sep-23	GRAB	1.05	19	170	<1	<1	0.24
WEAG-774	6117 Gleneagles Drive	4-Oct-23	GRAB	1.12	15	<2	-	-	0.2
WEAG-774	6117 Gleneagles Drive	30-Oct-23	GRAB	0.8	8	<2	-	-	0.12
WEAG-774	6117 Gleneagles Drive	27-Nov-23	GRAB	0.8	9	<2	<1	<1	0.2
WEAG-776	3755 Cypress Bowl Road	23-Jan-23	GRAB	1.37	5	<2	<1	<1	0.12
WEAG-776	3755 Cypress Bowl Road	21-Feb-23	GRAB	1.32	4	<2	<1	<1	<0.06
WEAG-776	3755 Cypress Bowl Road	20-Mar-23	GRAB	1.31	5	<2	<1	<1	0.09
WEAG-776	3755 Cypress Bowl Road	17-Apr-23	GRAB	1.47	5	<2	<1	<1	0.07
WEAG-776	3755 Cypress Bowl Road	15-May-23	GRAB	0.67	10	<2	<1	<1	0.21
WEAG-776	3755 Cypress Bowl Road	12-Jun-23	GRAB	1.22	16	<2	<1	<1	0.12
WEAG-776	3755 Cypress Bowl Road	10-Jul-23	GRAB	1.09	19	<2	<1	<1	0.1
WEAG-776	3755 Cypress Bowl Road	9-Aug-23	GRAB	1	21	4	<1	<1	0.14
WEAG-776	3755 Cypress Bowl Road	6-Sep-23	GRAB	1.1	18	4	<1	<1	0.15
WEAG-776	3755 Cypress Bowl Road	4-Oct-23	GRAB	1.38	14	4	-	-	0.21
WEAG-776	3755 Cypress Bowl Road	30-Oct-23	GRAB	1.17	8	2	-	-	0.09
WEAG-776	3755 Cypress Bowl Road	27-Nov-23	GRAB	1.16	8	<2	<1	<1	0.14
WEAG-778	6190 Marine Drive	9-Jan-23	GRAB	1.01	7	<2	<1	<1	0.14
WEAG-778	6190 Marine Drive	23-Jan-23	GRAB	1.03	5	<2	<1	<1	0.12
WEAG-778	6190 Marine Drive	6-Feb-23	GRAB	0.98	6	<2	<1	<1	0.18
WEAG-778	6190 Marine Drive	21-Feb-23	GRAB	1.07	5	8	<1	<1	0.34
WEAG-778	6190 Marine Drive	6-Mar-23	GRAB	1.33	5	<2	<1	<1	0.26

Sample Name	Sample Description	Sampled Date	Sample Type	Chlorine Free mg/L	Temperature °C	HPC CFU/mL	Total Coliform CFU/100mLs	Ecoli CFU/100mLs	Turbidity NTU
WEAG-778	6190 Marine Drive	20-Mar-23	GRAB	1.09	5	6	<1	<1	0.22
WEAG-778	6190 Marine Drive	3-Apr-23	GRAB	0.98	5	4	<1	<1	0.28
WEAG-778	6190 Marine Drive	17-Apr-23	GRAB	1.22	6	4	<1	<1	0.39
WEAG-778	6190 Marine Drive	1-May-23	GRAB	1.23	9	8	<1	<1	0.24
WEAG-778	6190 Marine Drive	15-May-23	GRAB	1.06	10	14	<1	<1	0.37
WEAG-778	6190 Marine Drive	29-May-23	GRAB	1.16	11	2	<1	<1	0.35
WEAG-778	6190 Marine Drive	12-Jun-23	GRAB	1.32	14	<2	<1	<1	0.18
WEAG-778	6190 Marine Drive	28-Jun-23	GRAB	0.84	13	8	<1	<1	0.12
WEAG-778	6190 Marine Drive	10-Jul-23	GRAB	1.09	19	<2	<1	<1	0.15
WEAG-778	6190 Marine Drive	24-Jul-23	GRAB	0.69	19	46	<1	<1	0.2
WEAG-778	6190 Marine Drive	9-Aug-23	GRAB	0.99	21	<2	<1	<1	0.28
WEAG-778	6190 Marine Drive	21-Aug-23	GRAB	1.12	20	<2	<1	<1	0.13
WEAG-778	6190 Marine Drive	6-Sep-23	GRAB	1.06	20	20	<1	<1	0.21
WEAG-778	6190 Marine Drive	18-Sep-23	GRAB	1	17	<2	<1	<1	0.17
WEAG-778	6190 Marine Drive	4-Oct-23	GRAB	1.1	15	<2	-	-	0.23
WEAG-778	6190 Marine Drive	16-Oct-23	GRAB	0.89	13	<2	-	-	0.14
WEAG-778	6190 Marine Drive	30-Oct-23	GRAB	0.78	8	<2	-	-	0.12
WEAG-778	6190 Marine Drive	15-Nov-23	GRAB	0.72	10	<2	<1	<1	0.12
WEAG-778	6190 Marine Drive	27-Nov-23	GRAB	0.82	8	4	<1	<1	0.17
WEAG-778	6190 Marine Drive	11-Dec-23	GRAB	0.95	9	<2	<1	<1	0.17
WEAG-779	1370 Burnside Road	4-Jan-23	GRAB	1.05	6	<2	<1	<1	0.2
WEAG-779	1370 Burnside Road	2-Feb-23	GRAB	1.1	7	<2	<1	<1	0.07
WEAG-779	1370 Burnside Road	27-Feb-23	GRAB	1.43	5	2	<1	<1	0.07
WEAG-779	1370 Burnside Road	27-Mar-23	GRAB	1.26	5	<2	<1	<1	0.15
WEAG-779	1370 Burnside Road	24-Apr-23	GRAB	0.8	7	<2	<1	<1	0.15
WEAG-779	1370 Burnside Road	24-May-23	GRAB	0.87	9	<2	<1	<1	0.18
WEAG-779	1370 Burnside Road	19-Jun-23	GRAB	0.87	10	<2	<1	<1	0.15
WEAG-779	1370 Burnside Road	17-Jul-23	GRAB	0.74	15	2	<1	<1	0.14
WEAG-779	1370 Burnside Road	14-Aug-23	GRAB	0.62	18	<2	<1	<1	0.15
WEAG-779	1370 Burnside Road	11-Sep-23	GRAB	0.75	17	<2	<1	<1	0.12
WEAG-779	1370 Burnside Road	11-Oct-23	GRAB	1.04	14	<2	-	-	0.2
WEAG-779	1370 Burnside Road	6-Nov-23	GRAB	0.7	10	<2	<1	<1	0.18
WEAG-779	1370 Burnside Road	4-Dec-23	GRAB	0.91	7	<2	<1	<1	0.07
WEAG-780	5634 Westhaven Road	9-Jan-23	GRAB	1.07	7	2	<1	<1	0.4
WEAG-780	5634 Westhaven Road	6-Feb-23	GRAB	1	7	<2	<1	<1	0.15
WEAG-780	5634 Westhaven Road	6-Mar-23	GRAB	1.48	5	<2	<1	<1	0.17
WEAG-780	5634 Westhaven Road	3-Apr-23	GRAB	1.11	6	4	<1	<1	0.23
WEAG-780	5634 Westhaven Road	1-May-23	GRAB	1.24	8	<2	<1	<1	0.69
WEAG-780	5634 Westhaven Road	29-May-23	GRAB	1.16	12	<2	<1	<1	0.15
WEAG-780	5634 Westhaven Road	28-Jun-23	GRAB	1.39	14	4	<1	<1	0.16
WEAG-780	5634 Westhaven Road	24-Jul-23	GRAB	1.2	20	4	<1	<1	0.18
WEAG-780	5634 Westhaven Road	21-Aug-23	GRAB	1.02	21	8	<1	<1	0.17
WEAG-780	5634 Westhaven Road	18-Sep-23	GRAB	1.2	17	4	<1	<1	0.17
WEAG-780	5634 Westhaven Road	16-Oct-23	GRAB	1.02	13	12	-	-	0.26
WEAG-780	5634 Westhaven Road	15-Nov-23	GRAB	0.98	8	<2	<1	<1	0.18
WEAG-780	5634 Westhaven Road	11-Dec-23	GRAB	1.28	7	<2	<1	<1	0.24
WEAG-783	4520 Almondel Place	23-Jan-23	GRAB	1.15	5	<2	<1	<1	0.1
WEAG-783	4520 Almondel Place	21-Feb-23	GRAB	0.6	5	<2	<1	<1	0.07
WEAG-783	4520 Almondel Place	20-Mar-23	GRAB	1.24	5	<2	<1	<1	0.07
WEAG-783	4520 Almondel Place	17-Apr-23	GRAB	1.35	6	<2	<1	<1	0.1
WEAG-783	4520 Almondel Place	15-May-23	GRAB	1.09	10	<2	<1	<1	0.24
WEAG-783	4520 Almondel Place	12-Jun-23	GRAB	1.08	18	50	<1	<1	0.14
WEAG-783	4520 Almondel Place	10-Jul-23	GRAB	1.19	20	6	<1	<1	0.13
WEAG-783	4520 Almondel Place	9-Aug-23	GRAB	1.05	21	8	<1	<1	0.22

Sample Name	Sample Description	Sampled Date	Sample Type	Chlorine Free mg/L	Temperature °C	HPC CFU/mL	Total Coliform CFU/100mLs	Ecoli CFU/100mLs	Turbidity NTU
WEAG-783	4520 Almondel Place	6-Sep-23	GRAB	0.7	20	10	<1	<1	0.15
WEAG-783	4520 Almondel Place	4-Oct-23	GRAB	1.2	14	<2	-	-	0.21
WEAG-783	4520 Almondel Place	30-Oct-23	GRAB	0.8	8	<2	-	-	0.12
WEAG-783	4520 Almondel Place	27-Nov-23	GRAB	1.07	7	<2	<1	<1	0.13
WEAG-784	5759 Primrose Place	9-Jan-23	GRAB	0.9	6	2	<1	<1	0.25
WEAG-784	5759 Primrose Place	6-Feb-23	GRAB	0.8	6	2	<1	<1	0.45
WEAG-784	5759 Primrose Place	6-Mar-23	GRAB	1.13	5	2	<1	<1	0.45
WEAG-784	5759 Primrose Place	3-Apr-23	GRAB	1.06	6	2	<1	<1	0.25
WEAG-784	5759 Primrose Place	1-May-23	GRAB	1.08	8	4	<1	<1	0.39
WEAG-784	5759 Primrose Place	29-May-23	GRAB	1.13	11	<2	<1	<1	0.17
WEAG-784	5759 Primrose Place	28-Jun-23	GRAB	1.2	15	<2	<1	<1	0.12
WEAG-784	5759 Primrose Place	24-Jul-23	GRAB	0.97	20	<2	<1	<1	0.32
WEAG-784	5759 Primrose Place	21-Aug-23	GRAB	1.01	20	<2	<1	<1	0.15
WEAG-784	5759 Primrose Place	13-Sep-23	GRAB	0.89	20	10	<1	<1	0.64
WEAG-784	5759 Primrose Place	18-Sep-23	GRAB	0.98	17	<2	<1	<1	0.16
WEAG-784	5759 Primrose Place	16-Oct-23	GRAB	0.91	13	<2	-	-	0.14
WEAG-784	5759 Primrose Place	15-Nov-23	GRAB	0.7	10	6	<1	<1	0.09
WEAG-784	5759 Primrose Place	11-Dec-23	GRAB	0.94	7	6	<1	<1	0.19
WEAG-785	4820 Headland Drive	9-Jan-23	GRAB	0.95	7	2	<1	<1	0.18
WEAG-785	4820 Headland Drive	6-Feb-23	GRAB	0.98	6	6	<1	<1	0.19
WEAG-785	4820 Headland Drive	6-Mar-23	GRAB	1.29	4	4	<1	<1	0.17
WEAG-785	4820 Headland Drive	3-Apr-23	GRAB	1.04	6	4	<1	<1	0.13
WEAG-785	4820 Headland Drive	1-May-23	GRAB	1.21	8	6	<1	<1	0.19
WEAG-785	4820 Headland Drive	29-May-23	GRAB	1.13	12	<2	<1	<1	0.19
WEAG-785	4820 Headland Drive	28-Jun-23	GRAB	1.23	15	<2	<1	<1	0.23
WEAG-785	4820 Headland Drive	24-Jul-23	GRAB	1.2	20	26	<1	<1	0.27
WEAG-785	4820 Headland Drive	21-Aug-23	GRAB	1.13	21	4	<1	<1	0.16
WEAG-785	4820 Headland Drive	18-Sep-23	GRAB	1.02	18	2	<1	<1	0.26
WEAG-785	4820 Headland Drive	16-Oct-23	GRAB	1	13	28	-	-	0.27
WEAG-785	4820 Headland Drive	15-Nov-23	GRAB	0.96	10	<2	<1	<1	0.12
WEAG-785	4820 Headland Drive	11-Dec-23	GRAB	0.86	8	10	<1	<1	0.12
WEAG-786	1158 Millstream Road	16-Jan-23	GRAB	1.07	7	<2	<1	<1	0.12
WEAG-786	1158 Millstream Road	13-Mar-23	GRAB	1.3	5	<2	<1	<1	0.12
WEAG-786	1158 Millstream Road	12-Apr-23	GRAB	1.12	6	<2	<1	<1	0.11
WEAG-786	1158 Millstream Road	8-May-23	GRAB	0.71	9	<2	<1	<1	0.18
WEAG-786	1158 Millstream Road	5-Jun-23	GRAB	0.89	11	<2	<1	<1	0.22
WEAG-786	1158 Millstream Road	5-Jul-23	GRAB	0.85	13	6	<1	<1	0.2
WEAG-786	1158 Millstream Road	31-Jul-23	GRAB	0.74	17	<2	<1	<1	0.11
WEAG-786	1158 Millstream Road	28-Aug-23	GRAB	0.75	17	12	<1	<1	0.24
WEAG-786	1158 Millstream Road	25-Sep-23	GRAB	0.65	16	6	<1	<1	0.15
WEAG-786	1158 Millstream Road	23-Oct-23	GRAB	0.89	14	<2	-	-	0.15
WEAG-786	1158 Millstream Road	20-Nov-23	GRAB	1.02	10	<2	<1	<1	0.12
WEAG-786	1158 Millstream Road	18-Dec-23	GRAB	0.84	7	NA	<1	<1	0.22
WEAG-787	2711 Willoughby Road	16-Jan-23	GRAB	1.31	7	<2	<1	<1	0.09
WEAG-787	2711 Willoughby Road	13-Mar-23	GRAB	0.97	5	8	<1	<1	0.12
WEAG-787	2711 Willoughby Road	12-Apr-23	GRAB	1.29	6	<2	<1	<1	0.07
WEAG-787	2711 Willoughby Road	8-May-23	GRAB	0.72	9	<2	<1	<1	0.19
WEAG-787	2711 Willoughby Road	5-Jun-23	GRAB	0.8	11	<2	<1	<1	0.33
WEAG-787	2711 Willoughby Road	5-Jul-23	GRAB	0.79	13	22	<1	<1	0.27
WEAG-787	2711 Willoughby Road	31-Jul-23	GRAB	0.74	17	14	<1	<1	0.22
WEAG-787	2711 Willoughby Road	28-Aug-23	GRAB	0.65	18	6	<1	<1	0.16
WEAG-787	2711 Willoughby Road	25-Sep-23	GRAB	0.62	16	4	<1	<1	0.14
WEAG-787	2711 Willoughby Road	23-Oct-23	GRAB	0.85	14	4	-	-	0.16
WEAG-787	2711 Willoughby Road	20-Nov-23	GRAB	0.58	10	8	<1	<1	0.45

Sample Name	Sample Description	Sampled Date	Sample Type	Chlorine Free mg/L	Temperature °C	HPC CFU/mL	Total Coliform CFU/100mLs	Ecoli CFU/100mLs	Turbidity NTU
WEAG-787	2711 Willoughby Road	18-Dec-23	GRAB	1.1	8	NA	<1	<1	0.11
WEAG-788	1551 Vinson Creek Road	16-Jan-23	GRAB	1.02	7	<2	<1	<1	0.08
WEAG-788	1551 Vinson Creek Road	13-Mar-23	GRAB	1.17	5	<2	<1	<1	0.1
WEAG-788	1551 Vinson Creek Road	12-Apr-23	GRAB	1.34	6	<2	<1	<1	0.07
WEAG-788	1551 Vinson Creek Road	8-May-23	GRAB	0.69	9	<2	<1	<1	0.23
WEAG-788	1551 Vinson Creek Road	5-Jun-23	GRAB	0.87	11	<2	<1	<1	0.19
WEAG-788	1551 Vinson Creek Road	5-Jul-23	GRAB	0.87	12	2	<1	<1	0.21
WEAG-788	1551 Vinson Creek Road	31-Jul-23	GRAB	0.75	17	<2	<1	<1	0.14
WEAG-788	1551 Vinson Creek Road	28-Aug-23	GRAB	0.8	17	<2	<1	<1	0.1
WEAG-788	1551 Vinson Creek Road	25-Sep-23	GRAB	0.64	16	4	<1	<1	0.15
WEAG-788	1551 Vinson Creek Road	23-Oct-23	GRAB	0.88	14	2	-	-	0.15
WEAG-788	1551 Vinson Creek Road	20-Nov-23	GRAB	1.06	10	<2	<1	<1	0.16
WEAG-788	1551 Vinson Creek Road	18-Dec-23	GRAB	0.9	7	NA	<1	<1	0.15
WEAG-880	965 Cross Creek Road	9-Jan-23	GRAB	1.07	7	4	<1	<1	0.25
WEAG-880	965 Cross Creek Road	6-Feb-23	GRAB	0.95	7	6	<1	<1	0.15
WEAG-880	965 Cross Creek Road	6-Mar-23	GRAB	1.39	4	2	<1	<1	0.16
WEAG-880	965 Cross Creek Road	3-Apr-23	GRAB	1.19	6	10	<1	<1	0.13
WEAG-880	965 Cross Creek Road	1-May-23	GRAB	1.27	8	22	<1	<1	0.15
WEAG-880	965 Cross Creek Road	29-May-23	GRAB	1.07	12	6	<1	<1	0.09
WEAG-880	965 Cross Creek Road	28-Jun-23	GRAB	0.73	13	18	<1	<1	0.18
WEAG-880	965 Cross Creek Road	24-Jul-23	GRAB	0.65	14	16	<1	<1	0.18
WEAG-880	965 Cross Creek Road	21-Aug-23	GRAB	0.82	19	6	<1	<1	0.14
WEAG-880	965 Cross Creek Road	18-Sep-23	GRAB	0.67	18	14	<1	<1	0.15
WEAG-880	965 Cross Creek Road	16-Oct-23	GRAB	1.14	13	10	-	-	0.15
WEAG-880	965 Cross Creek Road	15-Nov-23	GRAB	1.1	10	8	<1	<1	0.09
WEAG-880	965 Cross Creek Road	11-Dec-23	GRAB	1.16	8	<2	<1	<1	0.23
WMZ-781	8005 Pasco Road, Mtzb Creek	23-Jan-23	GRAB	0.91	6	<2	<1	<1	0.24
WMZ-781	8005 Pasco Road, Mtzb Creek	21-Feb-23	GRAB	0.82	5	<2	<1	<1	0.42
WMZ-781	8005 Pasco Road, Mtzb Creek	20-Mar-23	GRAB	0.98	5	<2	<1	<1	0.48
WMZ-781	8005 Pasco Road, Mtzb Creek	17-Apr-23	GRAB	0.96	5	10	<1	<1	0.61
WMZ-781	8005 Pasco Road, Mtzb Creek	15-May-23	GRAB	0.8	11	4	<1	<1	0.73
WMZ-781	8005 Pasco Road, Mtzb Creek	12-Jun-23	GRAB	0.77	14	8	<1	<1	0.67
WMZ-781	8005 Pasco Road, Mtzb Creek	10-Jul-23	GRAB	0.89	16	14	<1	<1	0.82
WMZ-781	8005 Pasco Road, Mtzb Creek	9-Aug-23	GRAB	0.84	18	4	<1	<1	0.53
WMZ-781	8005 Pasco Road, Mtzb Creek	6-Sep-23	GRAB	0.88	17	12	<1	<1	0.36
WMZ-781	8005 Pasco Road, Mtzb Creek	4-Oct-23	GRAB	0.65	15	2	-	-	0.31
WMZ-781	8005 Pasco Road, Mtzb Creek	30-Oct-23	GRAB	0.42	8	4	-	-	0.26
WMZ-781	8005 Pasco Road, Mtzb Creek	27-Nov-23	GRAB	0.61	8	6	<1	<1	0.46
WMZ-782	8995 Lawrence Way, Mtzb Creek	9-Jan-23	GRAB	1.07	7	<2	<1	<1	0.24
WMZ-782	8995 Lawrence Way, Mtzb Creek	6-Feb-23	GRAB	0.53	6	<2	<1	<1	0.92
WMZ-782	8995 Lawrence Way, Mtzb Creek	6-Mar-23	GRAB	1.31	4	4	<1	<1	0.51
WMZ-782	8995 Lawrence Way, Mtzb Creek	3-Apr-23	GRAB	1.22	5	2	<1	<1	0.34
WMZ-782	8995 Lawrence Way, Mtzb Creek	1-May-23	GRAB	1.43	8	2	<1	<1	0.21
WMZ-782	8995 Lawrence Way, Mtzb Creek	29-May-23	GRAB	1.28	8	2	<1	<1	3.7
WMZ-782	8995 Lawrence Way, Mtzb Creek	28-Jun-23	GRAB	1.31	13	<2	<1	<1	0.13
WMZ-782	8995 Lawrence Way, Mtzb Creek	24-Jul-23	GRAB	1.27	19	<2	<1	<1	0.2
WMZ-782	8995 Lawrence Way, Mtzb Creek	21-Aug-23	GRAB	1.15	14	<2	<1	<1	0.24
WMZ-782	8995 Lawrence Way, Mtzb Creek	18-Sep-23	GRAB	1.35	16	<2	<1	<1	0.21
WMZ-782	8995 Lawrence Way, Mtzb Creek	16-Oct-23	GRAB	1.06	13	4	-	-	0.49
WMZ-782	8995 Lawrence Way, Mtzb Creek	15-Nov-23	GRAB	1.17	5	<2	<1	<1	0.68
WMZ-782	8995 Lawrence Way, Mtzb Creek	11-Dec-23	GRAB	1.15	7	<2	<1	<1	0.69

4. Total Organic Carbon Sample Results – mg/L

Date	Sample Type	Eagle Lake		Montizambert Creek	
		Raw	Treated	Raw	Treated
09-Jan-23	GRAB	2.1	1.4	2.8	0.7
13-Feb-23	GRAB	2.1	1.3	1.9	0.4
13-Mar-23	GRAB	1.9	1.2	1.5	0.3
24-Apr-23	GRAB	1.7	1.1	1.7	0.5
08-May-23	GRAB	1.9	1.2	2.9	0.7
12-Jun-23	GRAB	1.8	1	2.2	0.3
10-Jul-23	GRAB	1.6	1.2	1	0.2
21-Aug-23	GRAB	1.9	1.4	0.7	0.2
11-Sep-23	GRAB	2.4	1.3	0.7	0.2
16-Oct-23	GRAB	2	1.3	3.7	1
20-Nov-23	GRAB	2.5	1.6	2.8	0.7
11-Dec-23	GRAB	2.4	1.6	3.3	0.6

5. Source Water Giardia & Cryptosporidium Sample Results

Date	Eagle Lake		Montizambert Creek	
	Giardia	Cryptosporidium	Giardia	Cryptosporidium
09-Jan-23	(Positive) 3 per 100 L	(Positive) 1 per 100 L	(Negative) <1 per 100 L	(Negative) <1 per 100 L
22-Feb-23	(Positive) 1 per 100 L	(Positive) 2 per 100 L	(Negative) <1 per 100 L	(Negative) <1 per 100 L
13-Mar-23	(Positive) 2 per 100 L	(Positive) 3 per 100 L	(Negative) <1 per 100 L	(Negative) <1 per 100 L
17-Apr-23	(Positive) 3 per 100 L	(Positive) 12 per 100 L	(Negative) <1 per 100 L	(Negative) <1 per 100 L
08-May-23	(Positive) 2 per 100 L	(Positive) 7 per 100 L	(Negative) <1 per 100 L	(Negative) <1 per 100 L
12-Jun-23	(Negative) <1 per 100 L	(Positive) 3 per 100 L	(Negative) <1 per 100 L	(Negative) <1 per 100 L
10-Jul-23	(Positive) 11 per 100 L	(Positive) 40 per 100 L	(Negative) <1 per 100 L	(Negative) <1 per 100 L
10-Aug-23	(Negative) <1 per 100 L	(Positive) 1 per 100 L	(Positive) 1 per 100 L	(Negative) <1 per 100 L
26-Sep-23	(Negative) <1 per 100 L	(Positive) 1 per 100 L	(Negative) <1 per 100 L	(Negative) <1 per 100 L
19-Oct-23	(Negative) <1 per 100 L	(Negative) <1 per 100 L	(Negative) <1 per 100 L	(Negative) <1 per 100 L
20-Nov-23	(Negative) <1 per 100 L	(Negative) <1 per 100 L	(Negative) <1 per 100 L	(Negative) <1 per 100 L
11-Dec-23	(Negative) <1 per 100 L	(Negative) <1 per 100 L	(Negative) <1 per 100 L	(Negative) <1 per 100 L

6. VCH Heath Message – Metals in Drinking Water



Vancouver Coastal Health
800 – 601 West Broadway
Vancouver, BC V5Z 4C2

May 12th, 2022

Water System Operators

Re: Metals in Drinking Water – “Flush” Message in Annual Reports

Vancouver Coastal Health (VCH) is requiring all water systems to include the following health message with your next annual reports to your users:

Contamination of drinking water with Lead can have health impacts over time, and in BC the source is most likely to be plumbing fixtures within a building. Anytime the water in a particular faucet has not been used for six hours or longer, “flush” your cold-water pipes by running the water until you notice a change in temperature. This could take as little as five to thirty seconds if there has been recent heavy water use such as showering or toilet flushing. Otherwise, it could take two minutes or longer. The more time water has been sitting in your home’s pipes, the more Lead it may contain.

Use only water from the cold-tap for drinking cooking, and especially making baby formula. Hot water is likely to contain higher levels of Lead.

The two actions recommended above are very important to the health of your family. They will probably be effective in reducing Lead levels because most of the Lead in household water usually comes from the plumbing in your house, not from the local water supply.

Conserving water is still important. Rather than just running the water down the drain you could use the water for things such as watering your plants.

If you have any questions, please contact you closest Drinking Water Officer noted below.

Sincerely,

A blue ink signature of Dr. Michael Schwandt.

Dr. Michael Schwandt
Medical Health Officer
Vancouver Coastal Health

- (604) 983-6793 Central Coast
- (604) 983-6793 North Shore
- (604) 485-3310 Powell River
- (604) 233-3147 Richmond
- (604) 885-5164 Sechelt
- (604) 892-2293 Squamish
- (604) 675-3800 Vancouver
- (604) 932-3202 Whistler