



CITY OF NELSON

2019 Annual Drinking Water Quality Report

City of
NELSON



Chris Gainham, Manager of Municipal Services

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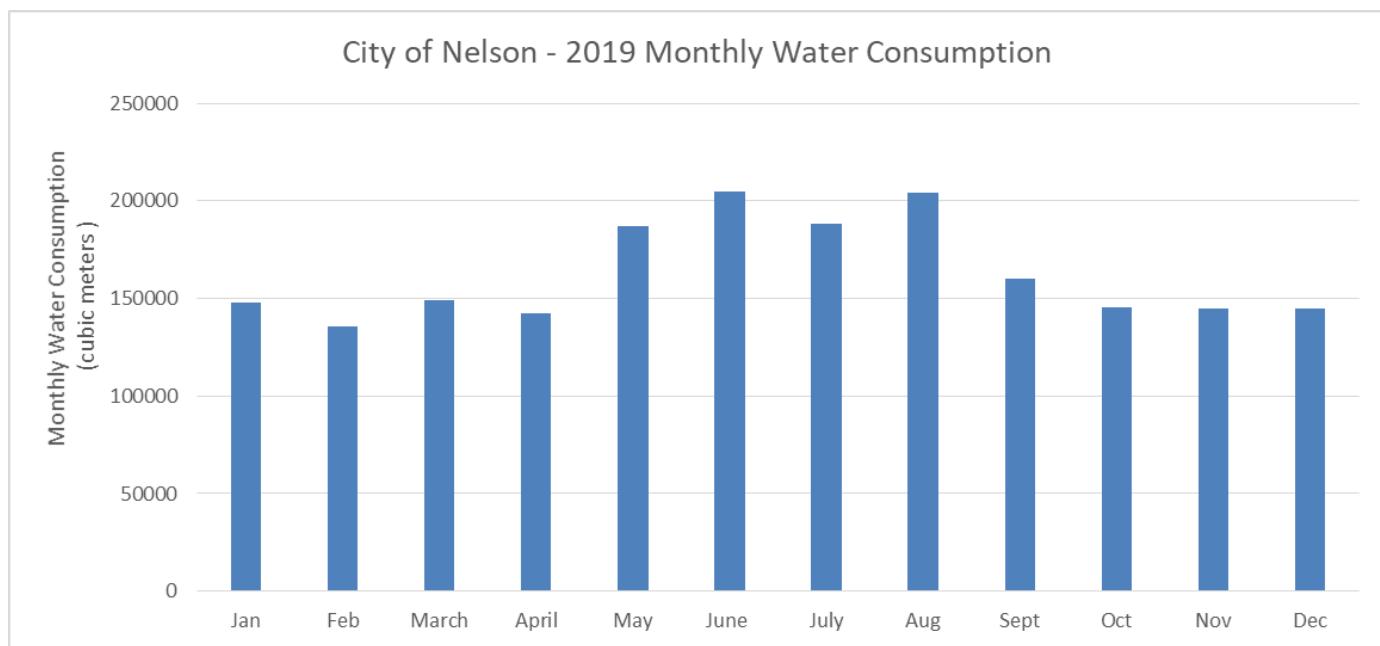
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Introduction

This Annual Water Quality Report satisfies requirements outlined in the Drinking Water Protection Regulation, BC Reg 200/2003 and the City's operating permit for the City of Nelson Water System including Facility #0210671 – Mountain Station Water Treatment Plant, and City of Nelson Water Distribution System. The Environmental Operators Certification Program (EOCP) Facility Classifications for both treatment and distribution is 2, and the system is operated and maintained by EOCP licenced operators at this level.

Total 2019 Water Consumption

A total of 1,954,943 cubic metres of water was treated and distributed through the municipal water system in 2019. The City draws source water, primarily from Five Mile Creek and relies on the secondary source waters of Anderson and Selous Creeks during peak summer demand.



Water Quality Monitoring

The City of Nelson is required to develop and maintain a water quality monitoring program which encompasses both source and distribution sides of the system and includes weekly bacteriological sampling and continuous monitoring of turbidity, chlorine and UV transmittance through the city's SCADA (supervisory control and data acquisition) system.

Water Emergency Response Plan

The City's Safe and reliable drinking water is vital to every community. Emergency response planning is an essential part of managing a drinking water system. Most public water systems have had routine operating emergencies such as pipe breaks, pump malfunctions, bacteriological contamination, and power outages. These are manageable if the water system has an emergency response plan that can be put into action.

More serious non-routine emergencies may result from intentional acts of vandalism, chemical spills, floods, earthquakes, windstorms, or droughts. These can drastically affect the system and the community that depends on it. Each emergency has unique effects on different parts of a water system. Floods can cause widespread bacterial contamination, earthquakes can damage water sources, distribution systems and treatment systems, and storms can disrupt power supplies. The common element is that each emergency may threaten the system's ability to deliver potable and palatable drinking water. Emergency response planning is a process by which water system managers and staff explore vulnerabilities, make improvements, and establish procedures to follow in an emergency situation. It is also a process that encourages people to form partnerships and get to know one another. Preparing a response plan and practicing it can save lives, prevent illness, enhance system security, minimize property damage, and lessen the overall burden of a catastrophic event and the cost associated to the disaster.

The City developed the current emergency response plan in 2016 and updates the plan annually. The plan is available for viewing at the Public Works and Utility Complex located at 80 Lakeside Dr. Nelson, BC V1L 6B9

Cross Connection Control Program Summary

The City of Nelson 's Cross Connection Control Program, implemented in 2017 has, to-date, completed 280 facility inspections, representing 73% of customers in Nelson, and has 137 back flow prevention devices in our tracking system. Our Waterworks Regulatory Bylaw #3293 (2015) and Subdivision and Development Bylaw #3170 (2011) contain provisions for protection of our waterworks system from potential contamination from potential sources of contamination , including cross connection protection, provision of backflow protection, and access to properties for inspection by a qualified person. The City's water meter data is analyzed monthly and the software is designed to automatically flag suspected incidents of backflow.

Water Master Plan Update

The original City of Nelson Water Master Plan was completed in 2007 and updated in 2017 (with final Council approval in 2018). A Copy of the Master Plan is available here:

<https://www.nelson.ca/DocumentCenter/View/2066/Water-Masterplan-Update->

Water Distribution System Capital Works Summary

<u>PROJECT AREA</u>	<u>SCOPE</u>	<u>LENGTH (ft)</u>
Observatory St 500 Blk	8" Water Main Replacement	
Ward St, Hoover to Robson	8" Water Main Replacement	1,100
Josephine St 1100 BLK	8" Water Main Replacement	
1200 BLK WARD STREET	8" Water Main Replacement	320

1200 BLK THIRTEENTH ST	8" Water Main Replacement	300
00 BLK PINE ST	2" Water Main Replacement	50
	TOTAL	1,770

Water Conservation Measures

Level 2 Water Restrictions (described in the infographic below) were implemented beginning on June 3, 2019 and remained in place in effect until the end of the year.

Mandatory Water Conservation Measures

Activity	Normal Regulations	1	2	3
Watering lawns using a sprinkler or irrigation system	4am - 9am & 7pm-10pm Even # address: Even # days of the month Odd # address: Odd # days of the month	4am - 9am & 7pm-10pm Even # address: ONLY ON Wednesday <u>and</u> Saturday Odd # address: ONLY ON Thursday <u>and</u> Sunday	4am-9am & 7pm-10pm Even # address: ONLY ON Wednesday Odd # address: ONLY ON Thursday	X
Watering trees, shrubs, or vegetable & flower gardens using a sprinkler or irrigation system	✓	4am-9am & 7pm-10pm ANY DAY	4am-9am & 7pm-10pm ANY DAY	4am-9am & 7pm-10pm ANY DAY
Watering trees, shrubs, or vegetable & flower gardens using a hand-held container, a hose with a shut-off nozzle, or a drip-irrigation system	✓	✓	✓	4am-9am & 7pm-10pm ANY DAY
Washing sidewalks, driveways, parking lots, exterior building surfaces, and exterior windows *	✓ with a handheld shut-off nozzle	✓ with a handheld shut-off nozzle	X	X
Washing personal Vehicles **	✓ with a handheld shut-off nozzle	✓ with a handheld shut-off nozzle	✓ with a handheld shut-off nozzle	X
Filling of fountains, pools, hot tubs, or garden ponds	✓	✓	✓	X
Watering new sod or grass outside of the permitted restrictions ***	PERMIT REQUIRED	PERMIT REQUIRED	X	X

* Permitted at all stages if necessary for applying product such as paint, preservative and stucco, preparing a surface prior to paving or repointing bricks, or if required bylaw to comply with health or safety regulations.

** Commercial carwash permitted at all stages

*** Permits can be acquired by contacting the Public Works at (250) 352-8238.





CERTIFICATE OF ANALYSIS

REPORTED TO	Urban Systems - Nelson Office Suite 204 - 625 Front St NELSON, BC V1L 4B6	WORK ORDER	9032198
ATTENTION	Dean Thompson	RECEIVED / TEMP	2019-03-27 09:00 / 9°C
PO NUMBER	35831	REPORTED	2019-04-03 17:15
PROJECT	City of Nelson Water Sampling	COC NUMBER	No Number
PROJECT INFO			

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO 17025:2005 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks



We've Got Chemistry



Ahead of the Curve



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

If you have any questions or concerns, please contact me at estclair@caro.ca

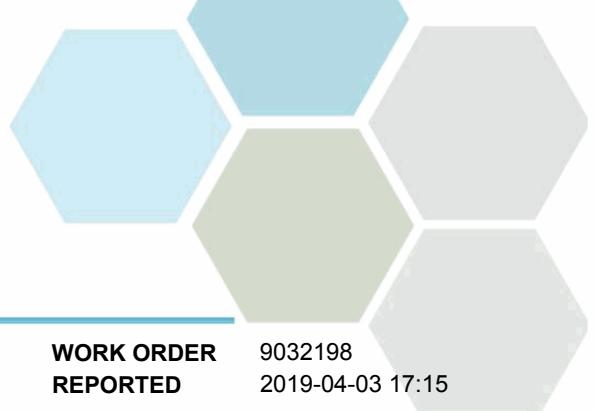
Authorized By:

Eilish St.Clair, B.Sc., C.I.T.
Client Service Representative



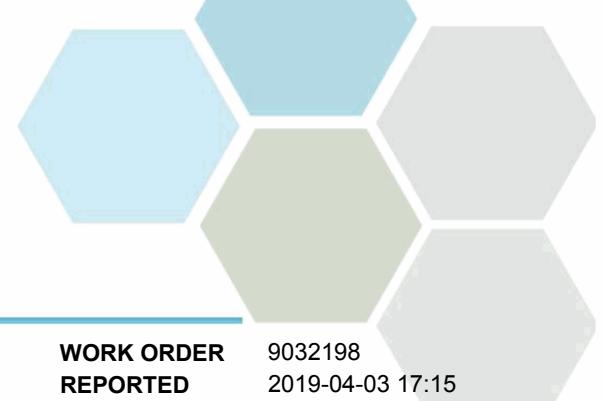
1-888-311-8846 | www.caro.ca

#110 4011 Viking Way Richmond, BC V6V 2K9 | #102 3677 Highway 97N Kelowna, BC V1X 5C3 | 17225 109 Avenue Edmonton, AB T5S 1H7



TEST RESULTS

REPORTED TO	Urban Systems - Nelson Office	WORK ORDER	9032198			
PROJECT	City of Nelson Water Sampling	REPORTED	2019-04-03 17:15			
Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Sealous Creek (9032198-01) Matrix: Water Sampled: 2019-03-26 09:30						
Anions						
Chloride	0.15	AO ≤ 250	0.10	mg/L	2019-03-27	
Fluoride	< 0.10	MAC = 1.5	0.10	mg/L	2019-03-27	
Nitrate (as N)	0.037	MAC = 10	0.010	mg/L	2019-03-27	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2019-03-27	
Sulfate	9.9	AO ≤ 500	1.0	mg/L	2019-03-27	
Calculated Parameters						
Hardness, Total (as CaCO ₃)	50.2	None Required	0.500	mg/L	N/A	
Langelier Index	-0.6	N/A	-5.0		2019-04-03	
Solids, Total Dissolved	62.3	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO ₃)	48.9	N/A	1.0	mg/L	2019-03-28	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2019-03-28	
Alkalinity, Bicarbonate (as CaCO ₃)	48.9	N/A	1.0	mg/L	2019-03-28	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2019-03-28	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2019-03-28	
Carbon, Total Organic	2.61	N/A	0.50	mg/L	2019-03-28	
Colour, True	11	AO ≤ 15	5.0	CU	2019-03-28	
Conductivity (EC)	112	N/A	2.0	µS/cm	2019-03-28	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2019-03-29	
pH	7.91	7.0-10.5	0.10	pH units	2019-03-28	HT2
Temperature, at pH	22.3	N/A		°C	2019-03-28	HT2
Turbidity	1.04	OG < 1	0.10	NTU	2019-03-29	
UV Transmittance @ 254nm	83.2	N/A	0.10	% T	2019-03-28	
Total Metals						
Aluminum, total	0.0870	OG < 0.1	0.0050	mg/L	2019-04-01	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2019-04-01	
Arsenic, total	0.00053	MAC = 0.01	0.00050	mg/L	2019-04-01	
Barium, total	0.0272	MAC = 1	0.0050	mg/L	2019-04-01	
Boron, total	0.0102	MAC = 5	0.0050	mg/L	2019-04-01	
Cadmium, total	0.000022	MAC = 0.005	0.000010	mg/L	2019-04-01	
Calcium, total	17.6	None Required	0.20	mg/L	2019-04-01	
Chromium, total	0.00061	MAC = 0.05	0.000050	mg/L	2019-04-01	
Cobalt, total	< 0.00010	N/A	0.000010	mg/L	2019-04-01	
Copper, total	0.00155	AO ≤ 1	0.000040	mg/L	2019-04-01	
Iron, total	0.104	AO ≤ 0.3	0.0010	mg/L	2019-04-01	
Lead, total	< 0.00020	MAC = 0.01	0.000020	mg/L	2019-04-01	
Magnesium, total	1.50	None Required	0.010	mg/L	2019-04-01	
Manganese, total	0.00227	AO ≤ 0.05	0.000020	mg/L	2019-04-01	
Mercury, total	< 0.000010	MAC = 0.001	0.0000010	mg/L	2019-04-01	
Molybdenum, total	0.00071	N/A	0.000010	mg/L	2019-04-01	



TEST RESULTS

REPORTED TO Urban Systems - Nelson Office
PROJECT City of Nelson Water Sampling

WORK ORDER 9032198
REPORTED 2019-04-03 17:15

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Sealous Creek (9032198-01) Matrix: Water Sampled: 2019-03-26 09:30, Continued						
Total Metals, Continued						
Nickel, total	0.00070	N/A	0.00040	mg/L	2019-04-01	
Potassium, total	1.59	N/A	0.10	mg/L	2019-04-01	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2019-04-01	
Sodium, total	1.58	AO ≤ 200	0.10	mg/L	2019-04-01	
Strontium, total	0.0734	N/A	0.0010	mg/L	2019-04-01	
Uranium, total	0.000192	MAC = 0.02	0.000020	mg/L	2019-04-01	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2019-04-01	
Anderson Creek (9032198-02) Matrix: Water Sampled: 2019-03-26 11:00						
Anions						
Chloride	0.21	AO ≤ 250	0.10	mg/L	2019-03-27	
Fluoride	0.12	MAC = 1.5	0.10	mg/L	2019-03-27	
Nitrate (as N)	0.017	MAC = 10	0.010	mg/L	2019-03-27	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2019-03-27	
Sulfate	5.3	AO ≤ 500	1.0	mg/L	2019-03-27	
Calculated Parameters						
Hardness, Total (as CaCO ₃)	29.7	None Required	0.500	mg/L	N/A	
Langelier Index	-1.3	N/A	-5.0		2019-04-03	
Solids, Total Dissolved	37.9	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO ₃)	29.8	N/A	1.0	mg/L	2019-03-28	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2019-03-28	
Alkalinity, Bicarbonate (as CaCO ₃)	29.8	N/A	1.0	mg/L	2019-03-28	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2019-03-28	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2019-03-28	
Carbon, Total Organic	3.03	N/A	0.50	mg/L	2019-03-28	
Colour, True	10	AO ≤ 15	5.0	CU	2019-03-28	
Conductivity (EC)	69.1	N/A	2.0	µS/cm	2019-03-28	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2019-03-29	
pH	7.69	7.0-10.5	0.10	pH units	2019-03-28	HT2
Temperature, at pH	22.2	N/A		°C	2019-03-28	HT2
Turbidity	0.74	OG < 1	0.10	NTU	2019-03-29	
UV Transmittance @ 254nm	81.3	N/A	0.10	% T	2019-03-28	
Total Metals						
Aluminum, total	0.0959	OG < 0.1	0.0050	mg/L	2019-04-01	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2019-04-01	
Arsenic, total	0.00056	MAC = 0.01	0.00050	mg/L	2019-04-01	
Barium, total	0.0186	MAC = 1	0.0050	mg/L	2019-04-01	
Boron, total	0.0095	MAC = 5	0.0050	mg/L	2019-04-01	



TEST RESULTS

REPORTED TO	Urban Systems - Nelson Office	WORK ORDER	9032198			
PROJECT	City of Nelson Water Sampling	REPORTED	2019-04-03 17:15			
Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Anderson Creek (9032198-02) Matrix: Water Sampled: 2019-03-26 11:00, Continued						
Total Metals, Continued						
Cadmium, total	0.000027	MAC = 0.005	0.000010	mg/L	2019-04-01	
Calcium, total	10.1	None Required	0.20	mg/L	2019-04-01	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2019-04-01	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2019-04-01	
Copper, total	0.00080	AO ≤ 1	0.00040	mg/L	2019-04-01	
Iron, total	0.076	AO ≤ 0.3	0.010	mg/L	2019-04-01	
Lead, total	< 0.00020	MAC = 0.01	0.00020	mg/L	2019-04-01	
Magnesium, total	1.08	None Required	0.010	mg/L	2019-04-01	
Manganese, total	0.00338	AO ≤ 0.05	0.00020	mg/L	2019-04-01	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2019-04-01	
Molybdenum, total	0.00065	N/A	0.00010	mg/L	2019-04-01	
Nickel, total	< 0.00040	N/A	0.00040	mg/L	2019-04-01	
Potassium, total	1.29	N/A	0.10	mg/L	2019-04-01	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2019-04-01	
Sodium, total	1.73	AO ≤ 200	0.10	mg/L	2019-04-01	
Strontium, total	0.0741	N/A	0.0010	mg/L	2019-04-01	
Uranium, total	0.000825	MAC = 0.02	0.000020	mg/L	2019-04-01	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2019-04-01	
Mountain Station (5 Mile Creek) (9032198-03) Matrix: Water Sampled: 2019-03-26 10:30						
Anions						
Chloride	0.13	AO ≤ 250	0.10	mg/L	2019-03-27	
Fluoride	< 0.10	MAC = 1.5	0.10	mg/L	2019-03-27	
Nitrate (as N)	0.013	MAC = 10	0.010	mg/L	2019-03-27	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2019-03-27	
Sulfate	2.1	AO ≤ 500	1.0	mg/L	2019-03-27	
Calculated Parameters						
Hardness, Total (as CaCO ₃)	14.1	None Required	0.500	mg/L	N/A	
Langelier Index	-2.2	N/A	-5.0		2019-04-03	
Solids, Total Dissolved	19.3	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO ₃)	15.3	N/A	1.0	mg/L	2019-03-28	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2019-03-28	
Alkalinity, Bicarbonate (as CaCO ₃)	15.3	N/A	1.0	mg/L	2019-03-28	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2019-03-28	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2019-03-28	
Colour, True	9.2	AO ≤ 15	5.0	CU	2019-03-28	
Conductivity (EC)	35.7	N/A	2.0	µS/cm	2019-03-28	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2019-03-29	
pH	7.40	7.0-10.5	0.10	pH units	2019-03-28	HT2



TEST RESULTS

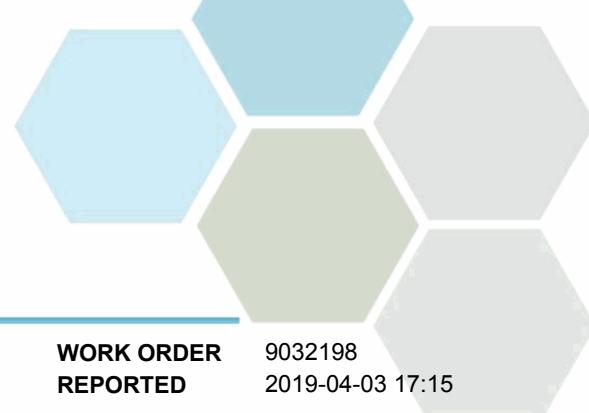
REPORTED TO Urban Systems - Nelson Office
PROJECT City of Nelson Water Sampling

WORK ORDER 9032198
REPORTED 2019-04-03 17:15

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Mountain Station (5 Mile Creek) (9032198-03) Matrix: Water Sampled: 2019-03-26 10:30, Continued						
<i>General Parameters, Continued</i>						
Temperature, at pH	22.3	N/A		°C	2019-03-28	HT2
Turbidity	0.39	OG < 1	0.10	NTU	2019-03-29	
<i>Total Metals</i>						
Aluminum, total	0.0486	OG < 0.1	0.0050	mg/L	2019-04-01	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2019-04-01	
Arsenic, total	0.00076	MAC = 0.01	0.00050	mg/L	2019-04-01	
Barium, total	0.0105	MAC = 1	0.0050	mg/L	2019-04-01	
Boron, total	0.0078	MAC = 5	0.0050	mg/L	2019-04-01	
Cadmium, total	0.000023	MAC = 0.005	0.000010	mg/L	2019-04-01	
Calcium, total	4.75	None Required	0.20	mg/L	2019-04-01	
Chromium, total	0.00103	MAC = 0.05	0.00050	mg/L	2019-04-01	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2019-04-01	
Copper, total	0.00109	AO ≤ 1	0.00040	mg/L	2019-04-01	
Iron, total	0.025	AO ≤ 0.3	0.010	mg/L	2019-04-01	
Lead, total	< 0.00020	MAC = 0.01	0.00020	mg/L	2019-04-01	
Magnesium, total	0.550	None Required	0.010	mg/L	2019-04-01	
Manganese, total	0.00083	AO ≤ 0.05	0.00020	mg/L	2019-04-01	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2019-04-01	
Molybdenum, total	0.00066	N/A	0.00010	mg/L	2019-04-01	
Nickel, total	< 0.00040	N/A	0.00040	mg/L	2019-04-01	
Potassium, total	0.68	N/A	0.10	mg/L	2019-04-01	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2019-04-01	
Sodium, total	1.73	AO ≤ 200	0.10	mg/L	2019-04-01	
Strontium, total	0.0497	N/A	0.0010	mg/L	2019-04-01	
Uranium, total	0.00261	MAC = 0.02	0.000020	mg/L	2019-04-01	
Zinc, total	0.0063	AO ≤ 5	0.0040	mg/L	2019-04-01	

Sample Qualifiers:

HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO Urban Systems - Nelson Office
PROJECT City of Nelson Water Sampling

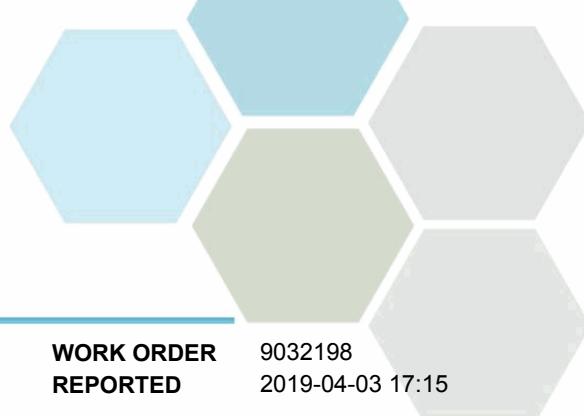
WORK ORDER 9032198
REPORTED 2019-04-03 17:15

Analysis Description	Method Ref.	Technique	Location
Alkalinity in Water	SM 2320 B* (2011)	Titration with H ₂ SO ₄	Kelowna
Anions in Water	SM 4110 B (2011)	Ion Chromatography	Kelowna
Carbon, Total Organic in Water	SM 5310 B (2011)	Combustion, Infrared CO ₂ Detection	Kelowna
Colour, True in Water	SM 2120 C (2011)	Spectrophotometry (456 nm)	Kelowna
Conductivity in Water	SM 2510 B (2011)	Conductivity Meter	Kelowna
Cyanide, SAD in Water	ASTM D7511-12	Flow Injection with In-Line UV Digestion and Amperometry	Kelowna
Hardness in Water	SM 2340 B* (2011)	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est)	N/A
Langelier Index in Water	SM 2330 B (2010)	Calculation	N/A
Mercury, total in Water	EPA 245.7*	BrCl ₂ Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	Richmond
pH in Water	SM 4500-H+ B (2011)	Electrometry	Kelowna
Solids, Total Dissolved in Water	SM 1030 E (2011)	Calculation: 100 x ([Cations]-[Anions])/([Cations]+[Anions])	N/A
Total Metals in Water	EPA 200.2* / EPA 6020B	HNO ₃ +HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	Richmond
Transmittance at 254 nm in Water	SM 5910 B* (2013)	Ultraviolet Absorption	Kelowna
Turbidity in Water	SM 2130 B (2011)	Nephelometry	Kelowna

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

Glossary of Terms:

RL	Reporting Limit (default)
% T	Percent Transmittance
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
°C	Degrees Celcius
AO	Aesthetic Objective
CU	Colour Units (referenced against a platinum cobalt standard)
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
NTU	Nephelometric Turbidity Units
OG	Operational Guideline (treated water)
pH units	pH < 7 = acidic, pH > 7 = basic
µS/cm	Microsiemens per centimetre
ASTM	ASTM International Test Methods
EPA	United States Environmental Protection Agency Test Methods
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association



APPENDIX 1: SUPPORTING INFORMATION

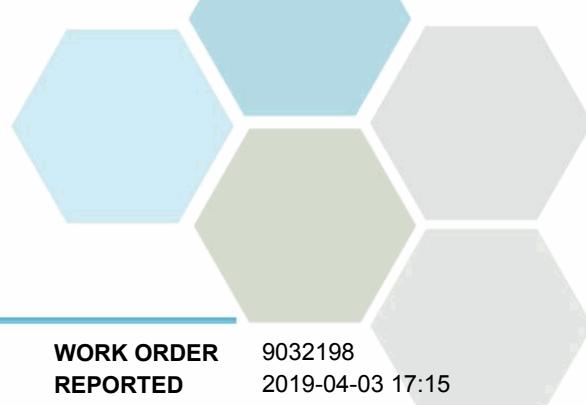
REPORTED TO Urban Systems - Nelson Office
PROJECT City of Nelson Water Sampling

WORK ORDER 9032198
REPORTED 2019-04-03 17:15

General Comments:

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued unless otherwise agreed to in writing.

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do not take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager: estclair@caro.ca



APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO Urban Systems - Nelson Office
PROJECT City of Nelson Water Sampling

WORK ORDER 9032198
REPORTED 2019-04-03 17:15

The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

- Method Blank (BLK):** A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- Duplicate (Dup):** An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- Blank Spike (BS):** A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.
- Matrix Spike (MS):** A second aliquot of sample is fortified with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- Reference Material (SRM):** A homogenous material of similar matrix to the samples, certified for the parameter(s) listed. Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Anions, Batch B9C2072

Blank (B9C2072-BLK1)		Prepared: 2019-03-27, Analyzed: 2019-03-27				
Chloride	< 0.10	0.10 mg/L				
Fluoride	< 0.10	0.10 mg/L				
Nitrate (as N)	< 0.010	0.010 mg/L				
Nitrite (as N)	< 0.010	0.010 mg/L				
Sulfate	< 1.0	1.0 mg/L				

LCS (B9C2072-BS1)

Prepared: 2019-03-27, Analyzed: 2019-03-27

Chloride	15.9	0.10 mg/L	16.0	100	90-110
Fluoride	4.01	0.10 mg/L	4.00	100	88-108
Nitrate (as N)	4.02	0.010 mg/L	4.00	100	93-108
Nitrite (as N)	2.01	0.010 mg/L	2.00	101	85-114
Sulfate	16.2	1.0 mg/L	16.0	101	91-109

General Parameters, Batch B9C2049

Blank (B9C2049-BLK1)		Prepared: 2019-03-28, Analyzed: 2019-03-28				
Carbon, Total Organic	< 0.50	0.50 mg/L				
Blank (B9C2049-BLK2)		Prepared: 2019-03-28, Analyzed: 2019-03-28				
Carbon, Total Organic	< 0.50	0.50 mg/L				
LCS (B9C2049-BS1)		Prepared: 2019-03-28, Analyzed: 2019-03-28				
Carbon, Total Organic	9.30	0.50 mg/L	10.0	93	78-116	
LCS (B9C2049-BS2)		Prepared: 2019-03-28, Analyzed: 2019-03-28				
Carbon, Total Organic	9.53	0.50 mg/L	10.0	95	78-116	

General Parameters, Batch B9C2098

Blank (B9C2098-BLK1)		Prepared: 2019-03-28, Analyzed: 2019-03-28				
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L				
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L				
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L				
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L				
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L				



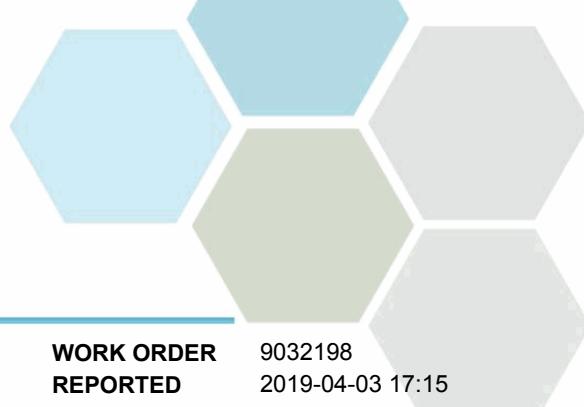
APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Urban Systems - Nelson Office	WORK ORDER	9032198						
PROJECT	City of Nelson Water Sampling	REPORTED	2019-04-03 17:15						
Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B9C2098, Continued									
Blank (B9C2098-BLK1), Continued									Prepared: 2019-03-28, Analyzed: 2019-03-28
Conductivity (EC)	< 2.0	2.0 μ S/cm							
Blank (B9C2098-BLK2)									Prepared: 2019-03-28, Analyzed: 2019-03-28
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	< 2.0	2.0 μ S/cm							
Blank (B9C2098-BLK3)									Prepared: 2019-03-28, Analyzed: 2019-03-28
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	< 2.0	2.0 μ S/cm							
LCS (B9C2098-BS1)									Prepared: 2019-03-28, Analyzed: 2019-03-28
Alkalinity, Total (as CaCO ₃)	103	1.0 mg/L	100		103	92-106			
LCS (B9C2098-BS2)									Prepared: 2019-03-28, Analyzed: 2019-03-28
Alkalinity, Total (as CaCO ₃)	102	1.0 mg/L	100		102	92-106			
LCS (B9C2098-BS3)									Prepared: 2019-03-28, Analyzed: 2019-03-28
Alkalinity, Total (as CaCO ₃)	103	1.0 mg/L	100		103	92-106			
LCS (B9C2098-BS4)									Prepared: 2019-03-28, Analyzed: 2019-03-28
Conductivity (EC)	1410	2.0 μ S/cm	1410		100	95-104			
LCS (B9C2098-BS5)									Prepared: 2019-03-28, Analyzed: 2019-03-28
Conductivity (EC)	1410	2.0 μ S/cm	1410		100	95-104			
LCS (B9C2098-BS6)									Prepared: 2019-03-28, Analyzed: 2019-03-28
Conductivity (EC)	1420	2.0 μ S/cm	1410		100	95-104			
Reference (B9C2098-SRM1)									Prepared: 2019-03-28, Analyzed: 2019-03-28
pH	7.02	0.10 pH units	7.01		100	98-102			
Reference (B9C2098-SRM2)									Prepared: 2019-03-28, Analyzed: 2019-03-28
pH	7.02	0.10 pH units	7.01		100	98-102			
Reference (B9C2098-SRM3)									Prepared: 2019-03-28, Analyzed: 2019-03-28
pH	7.03	0.10 pH units	7.01		100	98-102			
General Parameters, Batch B9C2126									
Blank (B9C2126-BLK1)									Prepared: 2019-03-28, Analyzed: 2019-03-28
UV Transmittance @ 254nm	< 0.10	0.10 % T							
LCS (B9C2126-BS1)									Prepared: 2019-03-28, Analyzed: 2019-03-28
UV Transmittance @ 254nm	38.9	0.10 % T	38.5		101	98-103			
Duplicate (B9C2126-DUP1)									Source: 9032198-01 Prepared: 2019-03-28, Analyzed: 2019-03-28
UV Transmittance @ 254nm	84.2	0.10 % T	83.2		1	6			



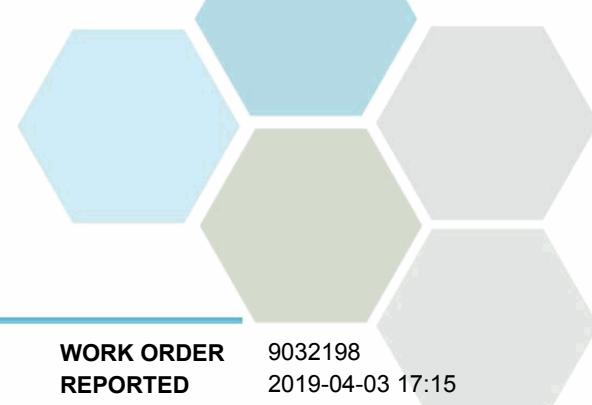
APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Urban Systems - Nelson Office	WORK ORDER	9032198						
PROJECT	City of Nelson Water Sampling	REPORTED	2019-04-03 17:15						
Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B9C2128									
Blank (B9C2128-BLK1)									Prepared: 2019-03-28, Analyzed: 2019-03-28
Colour, True	< 5.0	5.0 CU							
LCS (B9C2128-BS1)									Prepared: 2019-03-28, Analyzed: 2019-03-28
Colour, True	20	5.0 CU	20.0		100	85-115			
General Parameters, Batch B9C2164									
Blank (B9C2164-BLK1)									Prepared: 2019-03-29, Analyzed: 2019-03-29
Turbidity	< 0.10	0.10 NTU							
Blank (B9C2164-BLK2)									Prepared: 2019-03-29, Analyzed: 2019-03-29
Turbidity	< 0.10	0.10 NTU							
Blank (B9C2164-BLK3)									Prepared: 2019-03-29, Analyzed: 2019-03-29
Turbidity	< 0.10	0.10 NTU							
LCS (B9C2164-BS1)									Prepared: 2019-03-29, Analyzed: 2019-03-29
Turbidity	41.1	0.10 NTU	40.0		103	90-110			
LCS (B9C2164-BS2)									Prepared: 2019-03-29, Analyzed: 2019-03-29
Turbidity	41.7	0.10 NTU	40.0		104	90-110			
LCS (B9C2164-BS3)									Prepared: 2019-03-29, Analyzed: 2019-03-29
Turbidity	41.5	0.10 NTU	40.0		104	90-110			
General Parameters, Batch B9C2188									
Blank (B9C2188-BLK1)									Prepared: 2019-03-29, Analyzed: 2019-03-29
Cyanide, Total	< 0.0020	0.0020 mg/L							
LCS (B9C2188-BS1)									Prepared: 2019-03-29, Analyzed: 2019-03-29
Cyanide, Total	0.0193	0.0020 mg/L	0.0200		96	82-120			
LCS Dup (B9C2188-BSD1)									Prepared: 2019-03-29, Analyzed: 2019-03-29
Cyanide, Total	0.0197	0.0020 mg/L	0.0200		99	82-120	2	10	
Total Metals, Batch B9D0010									
Blank (B9D0010-BLK1)									Prepared: 2019-04-01, Analyzed: 2019-04-01
Aluminum, total	< 0.0050	0.0050 mg/L							
Antimony, total	< 0.00020	0.00020 mg/L							
Arsenic, total	< 0.00050	0.00050 mg/L							
Barium, total	< 0.0050	0.0050 mg/L							
Boron, total	< 0.0050	0.0050 mg/L							
Cadmium, total	< 0.000010	0.000010 mg/L							
Calcium, total	< 0.20	0.20 mg/L							
Chromium, total	< 0.00050	0.00050 mg/L							
Cobalt, total	< 0.00010	0.00010 mg/L							
Copper, total	< 0.00040	0.00040 mg/L							
Iron, total	< 0.010	0.010 mg/L							
Lead, total	< 0.00020	0.00020 mg/L							
Magnesium, total	< 0.010	0.010 mg/L							
Manganese, total	< 0.00020	0.00020 mg/L							
Molybdenum, total	< 0.00010	0.00010 mg/L							
Nickel, total	< 0.00040	0.00040 mg/L							



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PROJECT	City of Nelson Water Sampling	REPORTED	2019-04-03 17:15						
Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B9D0010, Continued									
Blank (B9D0010-BLK1), Continued								Prepared: 2019-04-01, Analyzed: 2019-04-01	
Potassium, total	< 0.10	0.10 mg/L							
Selenium, total	< 0.00050	0.00050 mg/L							
Sodium, total	< 0.10	0.10 mg/L							
Strontium, total	< 0.0010	0.0010 mg/L							
Uranium, total	< 0.000020	0.000020 mg/L							
Zinc, total	< 0.0040	0.0040 mg/L							
Blank (B9D0010-BLK2)								Prepared: 2019-04-01, Analyzed: 2019-04-01	
Aluminum, total	< 0.0050	0.0050 mg/L							
Antimony, total	< 0.00020	0.00020 mg/L							
Arsenic, total	< 0.00050	0.00050 mg/L							
Barium, total	< 0.0050	0.0050 mg/L							
Boron, total	< 0.0050	0.0050 mg/L							
Cadmium, total	< 0.000010	0.000010 mg/L							
Calcium, total	< 0.20	0.20 mg/L							
Chromium, total	< 0.00050	0.00050 mg/L							
Cobalt, total	< 0.00010	0.00010 mg/L							
Copper, total	< 0.00040	0.00040 mg/L							
Iron, total	< 0.010	0.010 mg/L							
Lead, total	< 0.00020	0.00020 mg/L							
Magnesium, total	< 0.010	0.010 mg/L							
Manganese, total	< 0.00020	0.00020 mg/L							
Molybdenum, total	< 0.00010	0.00010 mg/L							
Nickel, total	< 0.00040	0.00040 mg/L							
Potassium, total	< 0.10	0.10 mg/L							
Selenium, total	< 0.00050	0.00050 mg/L							
Sodium, total	< 0.10	0.10 mg/L							
Strontium, total	< 0.0010	0.0010 mg/L							
Uranium, total	< 0.000020	0.000020 mg/L							
Zinc, total	< 0.0040	0.0040 mg/L							
Blank (B9D0010-BLK3)								Prepared: 2019-04-01, Analyzed: 2019-04-01	
Aluminum, total	< 0.0050	0.0050 mg/L							
Antimony, total	< 0.00020	0.00020 mg/L							
Arsenic, total	< 0.00050	0.00050 mg/L							
Barium, total	< 0.0050	0.0050 mg/L							
Boron, total	< 0.0050	0.0050 mg/L							
Cadmium, total	< 0.000010	0.000010 mg/L							
Calcium, total	< 0.20	0.20 mg/L							
Chromium, total	< 0.00050	0.00050 mg/L							
Cobalt, total	< 0.00010	0.00010 mg/L							
Copper, total	< 0.00040	0.00040 mg/L							
Iron, total	< 0.010	0.010 mg/L							
Lead, total	< 0.00020	0.00020 mg/L							
Magnesium, total	< 0.010	0.010 mg/L							
Manganese, total	< 0.00020	0.00020 mg/L							
Molybdenum, total	< 0.00010	0.00010 mg/L							
Nickel, total	< 0.00040	0.00040 mg/L							
Potassium, total	< 0.10	0.10 mg/L							
Selenium, total	< 0.00050	0.00050 mg/L							
Sodium, total	< 0.10	0.10 mg/L							
Strontium, total	< 0.0010	0.0010 mg/L							
Uranium, total	< 0.000020	0.000020 mg/L							
Zinc, total	< 0.0040	0.0040 mg/L							



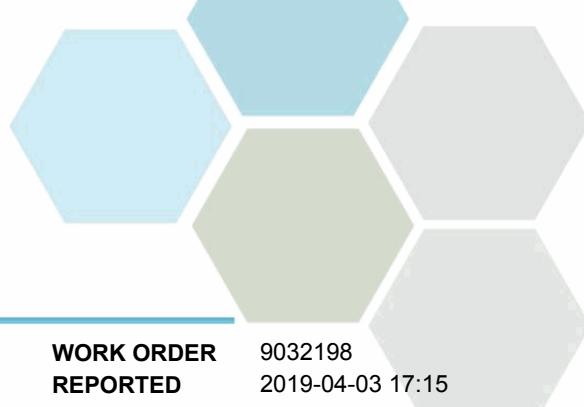
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REPORTED TO	Urban Systems - Nelson Office	WORK ORDER	9032198
PROJECT	City of Nelson Water Sampling	REPORTED	2019-04-03 17:15

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B9D0010, Continued									
LCS (B9D0010-BS1)									
Aluminum, total	0.0231	0.0050 mg/L	0.0200	116	80-120				
Antimony, total	0.0217	0.00020 mg/L	0.0200	109	80-120				
Arsenic, total	0.0202	0.00050 mg/L	0.0200	101	80-120				
Barium, total	0.0201	0.0050 mg/L	0.0200	100	80-120				
Boron, total	0.0208	0.0050 mg/L	0.0200	104	80-120				
Cadmium, total	0.0209	0.000010 mg/L	0.0200	104	80-120				
Calcium, total	1.80	0.20 mg/L	2.00	90	80-120				
Chromium, total	0.0202	0.00050 mg/L	0.0200	101	80-120				
Cobalt, total	0.0203	0.00010 mg/L	0.0200	102	80-120				
Copper, total	0.0213	0.00040 mg/L	0.0200	106	80-120				
Iron, total	1.93	0.010 mg/L	2.00	96	80-120				
Lead, total	0.0211	0.00020 mg/L	0.0200	105	80-120				
Magnesium, total	2.07	0.010 mg/L	2.00	104	80-120				
Manganese, total	0.0210	0.00020 mg/L	0.0200	105	80-120				
Molybdenum, total	0.0210	0.00010 mg/L	0.0200	105	80-120				
Nickel, total	0.0205	0.00040 mg/L	0.0200	102	80-120				
Potassium, total	1.91	0.10 mg/L	2.00	95	80-120				
Selenium, total	0.0222	0.00050 mg/L	0.0200	111	80-120				
Sodium, total	2.11	0.10 mg/L	2.00	105	80-120				
Strontium, total	0.0201	0.0010 mg/L	0.0200	101	80-120				
Uranium, total	0.0223	0.000020 mg/L	0.0200	112	80-120				
Zinc, total	0.0218	0.0040 mg/L	0.0200	109	80-120				
Reference (B9D0010-SRM1)									
Aluminum, total	0.309	0.0050 mg/L	0.303	102	82-114				
Antimony, total	0.0533	0.00020 mg/L	0.0511	104	88-115				
Arsenic, total	0.121	0.00050 mg/L	0.118	103	88-111				
Barium, total	0.799	0.0050 mg/L	0.823	97	83-110				
Boron, total	3.66	0.0050 mg/L	3.45	106	80-118				
Cadmium, total	0.0509	0.000010 mg/L	0.0495	103	90-110				
Calcium, total	10.2	0.20 mg/L	11.6	88	85-113				
Chromium, total	0.252	0.00050 mg/L	0.250	101	88-111				
Cobalt, total	0.0395	0.00010 mg/L	0.0377	105	90-114				
Copper, total	0.525	0.00040 mg/L	0.486	108	90-117				
Iron, total	0.486	0.010 mg/L	0.488	100	90-116				
Lead, total	0.213	0.00020 mg/L	0.204	104	90-110				
Magnesium, total	3.95	0.010 mg/L	3.79	104	88-116				
Manganese, total	0.113	0.00020 mg/L	0.109	103	88-108				
Molybdenum, total	0.204	0.00010 mg/L	0.198	103	88-110				
Nickel, total	0.250	0.00040 mg/L	0.249	101	90-112				
Potassium, total	7.13	0.10 mg/L	7.21	99	87-116				
Selenium, total	0.133	0.00050 mg/L	0.121	110	90-122				
Sodium, total	7.63	0.10 mg/L	7.54	101	86-118				
Strontium, total	0.374	0.0010 mg/L	0.375	100	86-110				
Uranium, total	0.0310	0.000020 mg/L	0.0306	101	88-112				
Zinc, total	2.62	0.0040 mg/L	2.49	105	90-113				

Total Metals, Batch B9D0024

Blank (B9D0024-BLK1)	Prepared: 2019-04-01, Analyzed: 2019-04-01
Mercury, total	< 0.000010 0.000010 mg/L
Blank (B9D0024-BLK2)	
Mercury, total	Prepared: 2019-04-01, Analyzed: 2019-04-01
Mercury, total	< 0.000010 0.000010 mg/L



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PROJECT	City of Nelson Water Sampling	REPORTED	2019-04-03 17:15						
Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B9D0024, Continued									
Duplicate (B9D0024-DUP1)	Source: 9032198-01			Prepared: 2019-04-01, Analyzed: 2019-04-01					
Mercury, total	< 0.000010	0.000010 mg/L		< 0.000010			20		
Matrix Spike (B9D0024-MS1)	Source: 9032198-02			Prepared: 2019-04-01, Analyzed: 2019-04-01					
Mercury, total	0.000220	0.000010 mg/L	0.000250	< 0.000010	88	70-130			
Reference (B9D0024-SRM1)	Prepared: 2019-04-01, Analyzed: 2019-04-01								
Mercury, total	0.00520	0.000010 mg/L	0.00489		106	80-120			
Reference (B9D0024-SRM2)	Prepared: 2019-04-01, Analyzed: 2019-04-01								
Mercury, total	0.00429	0.000010 mg/L	0.00489		88	80-120			



4240 Passmore Upper Road, Winlaw BC, V0G2J0
250-226-7339
test@passmorelaboratory.ca
passmorelaboratory.ca

Client City of Nelson
Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

Passmore Laboratory Ltd. complies with methods and certification through the Province of British Columbia Enhanced Water Quality Assurance (EWQA) Program and the Clinical Microbiology Proficiency Testing (CMPT) Program. Other analytical results on this report not listed above are not within the scope of the EWQA. Passmore Laboratory assumes no responsibility for any loss or damage resulting from error or omission in the conduct of testing. Liability is limited to the cost of the analysis.

Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-01-02	8:05 AM	Matrix DW
			Temperature on Receipt 5
Date/Time on Test	2019-01-02	6:28 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Interior Health I.H.A	Sample #	2
Date/Time Sampled	2019-01-02	9:00 AM	Matrix DW
			Temperature on Receipt 5
Date/Time on Test	2019-01-02	6:30 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Nelson Car Wash	Sample #	3
Date/Time Sampled	2019-01-02	8:25 AM	Matrix DW
			Temperature on Receipt 5
Date/Time on Test	2019-01-02	6:35 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Mnt Lakes Seniors	Sample #	4
Date/Time Sampled	2019-01-02	8:35 AM	Matrix DW
			Temperature on Receipt 5
Date/Time on Test	2019-01-02	6:40 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-01-02	8:45 AM	Matrix SW
			Temperature on Receipt 4
Date/Time on Test	2019-01-02	6:45 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	14	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

References



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250-226-7339
test@passmorelaboratory.ca
passmorelaboratory.ca

Client City of Nelson
Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-01-08	9:00 AM	Matrix DW
			Temperature on Receipt 5
Date/Time on Test	2019-01-08	6:45 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Interior Health I.H.A	Sample #	2
Date/Time Sampled	2019-01-08	9:25 AM	Matrix DW
			Temperature on Receipt 5
Date/Time on Test	2019-01-08	6:50 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Nelson Car Wash	Sample #	3
Date/Time Sampled	2019-01-08	9:45 AM	Matrix DW
			Temperature on Receipt 5
Date/Time on Test	2019-01-08	6:55 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Mnt Lakes Seniors	Sample #	4
Date/Time Sampled	2019-01-08	9:55 AM	Matrix DW
			Temperature on Receipt 4
Date/Time on Test	2019-01-08	6:55 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-01-08	9:55 AM	Matrix SW
			Temperature on Receipt 4
Date/Time on Test	2019-01-08	7:00 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	11	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

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Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

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ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-01-15	7:45 AM	Matrix DW

Date/Time on Test 2019-01-15 9:30 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site Interior Health I.H.A Sample # 2

Date/Time Sampled 2019-01-15 8:00 AM Matrix DW Temperature on Receipt 5

Date/Time on Test 2019-01-15 9:35 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site Nelson Car Wash Sample # 3

Date/Time Sampled 2019-01-15 8:30 AM Matrix DW Temperature on Receipt 5

Date/Time on Test 2019-01-15 9:40 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site Mnt Lakes Seniors Sample # 4

Date/Time Sampled 2019-01-15 8:45 AM Matrix DW Temperature on Receipt 5

Date/Time on Test 2019-01-15 9:45 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site Mtn. Station Reservoir - Raw Sample # 5

Date/Time Sampled 2019-01-15 10:45 AM Matrix SW Temperature on Receipt 5

Date/Time on Test 2019-01-15 9:55 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	38	CFU/100mL	1
Verified E.coli	1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

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Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-01-22	8:30 AM	Matrix DW

Date/Time on Test 2019-01-22 10:00 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site Interior Health I.H.A Sample # 2

Date/Time Sampled 2019-01-22 9:07 AM Matrix DW Temperature on Receipt 7

Date/Time on Test 2019-01-22 10:05 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site Nelson Car Wash Sample # 3

Date/Time Sampled 2019-01-22 9:20 AM Matrix DW Temperature on Receipt 7

Date/Time on Test 2019-01-22 10:10 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site Mnt Lakes Seniors Sample # 4

Date/Time Sampled 2019-01-22 Matrix DW Temperature on Receipt 7

Date/Time on Test 2019-01-22 10:20 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site Mtn. Station Reservoir - Raw Sample # 5

Date/Time Sampled 2019-01-22 8:44 AM Matrix SW Temperature on Receipt 7

Date/Time on Test 2019-01-22 10:30 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	21	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

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Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-01-29	10:20 AM	Matrix DW

Date/Time on Test 2019-01-29 6:25 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Interior Health I.H.A	Sample #	2
Date/Time Sampled	2019-01-29	10:45 AM	Matrix DW

Date/Time on Test 2019-01-29 6:30 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Nelson Car Wash	Sample #	3
Date/Time Sampled	2019-01-29	11:11 AM	Matrix DW

Date/Time on Test 2019-01-29 6:35 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Mnt Lakes Seniors	Sample #	4
Date/Time Sampled	2019-01-29	11:00 AM	Matrix DW

Date/Time on Test 2019-01-29 6:40 AM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-01-29	11:30 AM	Matrix SW

Date/Time on Test 2019-01-29 6:45 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	25	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
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CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

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ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-02-05	8:00 AM	Matrix DW

Date/Time on Test 2019-02-05 10:00 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site Interior Health I.H.A Sample # 2

Date/Time Sampled 2019-02-05 8:15 AM Matrix DW Temperature on Receipt 3

Date/Time on Test 2019-02-05 10:05 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site Nelson Car Wash Sample # 3

Date/Time Sampled 2019-02-05 8:30 AM Matrix DW Temperature on Receipt 3

Date/Time on Test 2019-02-05 10:10 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site Mnt Lakes Seniors Sample # 4

Date/Time Sampled 2019-02-05 8:40 AM Matrix DW Temperature on Receipt 3

Date/Time on Test 2019-02-05 10:15 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site Mtn. Station Reservoir - Raw Sample # 5

Date/Time Sampled 2019-02-05 9:10 AM Matrix SW Temperature on Receipt 3

Date/Time on Test 2019-02-05 10:20 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	30	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

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Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

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ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-02-12	7:55 AM	Matrix DW

Date/Time on Test 2019-02-12 8:55 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site Interior Health I.H.A Sample # 2

Date/Time Sampled 2019-02-12 8:00 AM Matrix DW Temperature on Receipt 7

Date/Time on Test 2019-02-12 9:00 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site Nelson Car Wash Sample # 3

Date/Time Sampled 2019-02-12 8:55 AM Matrix DW Temperature on Receipt 8

Date/Time on Test 2019-02-12 9:05 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site Mnt Lakes Seniors Sample # 4

Date/Time Sampled 2019-02-12 9:15 AM Matrix DW Temperature on Receipt 7

Date/Time on Test 2019-02-12 9:10 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site Mtn. Station Reservoir - Raw Sample # 5

Date/Time Sampled 2019-02-12 8:25 AM Matrix SW Temperature on Receipt 8

Date/Time on Test 2019-02-12 9:15 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	2	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

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Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

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ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-02-19	10:52 AM	Matrix DW

Date/Time on Test 2019-02-19 7:10 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Interior Health I.H.A	Sample #	2
Date/Time Sampled	2019-02-19	8:57 AM	Matrix DW

Date/Time on Test 2019-02-19 7:15 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Nelson Car Wash	Sample #	3
Date/Time Sampled	2019-02-19	9:33 AM	Matrix DW

Date/Time on Test 2019-02-19 7:20 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Mnt Lakes Seniors	Sample #	4
Date/Time Sampled	2019-02-19	9:12 AM	Matrix DW

Date/Time on Test 2019-02-19 7:25 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-02-19	10:39 AM	Matrix SW

Date/Time on Test 2019-02-19 7:30 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	11	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

References



4240 Passmore Upper Road, Winlaw BC, V0G2J0
250-226-7339
test@passmorelaboratory.ca
passmorelaboratory.ca

Client City of Nelson
Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-02-26	8:10 AM	Matrix DW

Date/Time on Test 2019-02-26 5:50 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Interior Health I.H.A	Sample #	2
Date/Time Sampled	2019-02-26	8:27 AM	Matrix DW

Date/Time on Test 2019-02-26 5:55 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Nelson Car Wash	Sample #	3
Date/Time Sampled	2019-02-26	9:05 AM	Matrix DW

Date/Time on Test 2019-02-26 6:00 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Mnt Lakes Seniors	Sample #	4
Date/Time Sampled	2019-02-26	9:15 AM	Matrix DW

Date/Time on Test 2019-02-26 6:05 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-02-26	8:43 AM	Matrix SW

Date/Time on Test 2019-02-26 6:10 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	12	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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Client City of Nelson
Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-03-05	8:15 AM	Matrix DW

Date/Time on Test 2019-03-05 5:42 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Interior Health I.H.A	Sample #	2
Date/Time Sampled	2019-03-05	8:31 AM	Matrix DW

Date/Time on Test 2019-03-05 5:45 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Nelson Car Wash	Sample #	3
Date/Time Sampled	2019-03-05	9:01 AM	Matrix DW

Date/Time on Test 2019-03-05 5:50 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Mnt Lakes Seniors	Sample #	4
Date/Time Sampled	2019-03-05	9:15 AM	Matrix DW

Date/Time on Test 2019-03-05 5:55 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-03-05	8:45 AM	Matrix SW

Date/Time on Test 2019-03-05 6:00 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	8	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-03-12	8:00 AM	Matrix DW
			Temperature on Receipt 6
Date/Time on Test	2019-03-12	5:50 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Interior Health I.H.A	Sample #	2
Date/Time Sampled	2019-03-12	8:43 AM	Matrix DW
			Temperature on Receipt 5
Date/Time on Test	2019-03-12	5:55 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Nelson Car Wash	Sample #	3
Date/Time Sampled	2019-03-12	8:55 AM	Matrix DW
			Temperature on Receipt 6
Date/Time on Test	2019-03-12	6:00 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Mnt Lakes Seniors	Sample #	4
Date/Time Sampled	2019-03-12	9:05 AM	Matrix DW
			Temperature on Receipt 4
Date/Time on Test	2019-03-12	6:05 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-03-12	9:30 AM	Matrix SW
			Temperature on Receipt 5
Date/Time on Test	2019-03-12	6:10 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	7	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Lynne Alexander

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-03-19	8:00 AM	Matrix TW

Date/Time on Test 2019-03-19 3:45 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1

Sample Site	Interior Health I.H.A	Sample #	2
Date/Time Sampled	2019-03-19	8:20 AM	Matrix TW

Date/Time on Test 2019-03-19 3:50 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1

Sample Site	Nelson Car Wash	Sample #	3
Date/Time Sampled	2019-03-19	8:34 AM	Matrix TW

Date/Time on Test 2019-03-19 3:50 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1

Sample Site	Mnt Lakes Seniors	Sample #	4
Date/Time Sampled	2019-03-19	8:45 AM	Matrix TW

Date/Time on Test 2019-03-19 3:55 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1

Sample Site	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-03-19	9:05 AM	Matrix UGW

Date/Time on Test 2019-03-19 3:55 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	2	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	Less than 1	CFU/100mL	1

ANALYTICAL RESULTS

Sample Site	STP Pre UV lights	Sample #	6
Date/Time Sampled	2019-03-19	7:40 AM	Matrix SW

Date/Time on Test 2019-03-19 4:00 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1

Sample Site	STP Post UV lights	Sample #	7
Date/Time Sampled	2019-03-19	7:40 AM	Matrix TW

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1

Glossary of Terms

Less than 1 Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.

APHA American Public Health Association

CFU/100mL Colony Forming Units per 100 milliliters

Matrix SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water

RDL Reportable Detection Limit

References



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test@passmorelaboratory.ca
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Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Lynne Alexander

Jennifer Yeow,
Lab Manager

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ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-03-26	8:05 AM	Matrix TW
			Temperature on Receipt
Date/Time on Test	2019-03-26	3:45 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1
Sample Site	Interior Health I.H.A	Sample #	2
Date/Time Sampled	2019-03-26	8:49 AM	Matrix TW
			Temperature on Receipt
Date/Time on Test	2019-03-26	3:45 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1
Sample Site	Nelson Car Wash	Sample #	3
Date/Time Sampled	2019-03-26	9:00 AM	Matrix TW
			Temperature on Receipt
Date/Time on Test	2019-03-26	3:50 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1
Sample Site	Mnt Lakes Seniors	Sample #	4
Date/Time Sampled	2019-03-26	9:10 AM	Matrix TW
			Temperature on Receipt
Date/Time on Test	2019-03-26	3:50 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1
Sample Site	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-03-26	9:22 AM	Matrix UGW
			Temperature on Receipt
Date/Time on Test	2019-03-26	3:55 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	6	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	Less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
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CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Lynne Alexander

Jennifer Yeow,
Lab Manager

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ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-04-02	7:45 AM	Matrix TW

Date/Time on Test 2019-04-02 3:30 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1

Sample Site	Interior Health I.H.A	Sample #	2
Date/Time Sampled	2019-04-02	8:17 AM	Matrix TW

Date/Time on Test 2019-04-02 3:30 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1

Sample Site	Nelson Car Wash	Sample #	3
Date/Time Sampled	2019-04-02	8:31 AM	Matrix TW

Date/Time on Test 2019-04-02 3:35 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1

Sample Site	Mnt Lakes Seniors	Sample #	4
Date/Time Sampled	2019-04-02	8:40 AM	Matrix TW

Date/Time on Test 2019-04-02 3:35 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1

Sample Site	Mnt Lakes Seniors	Sample #	5
Date/Time Sampled	2019-04-02	8:00 AM	Matrix SW

Date/Time on Test 2019-04-02 3:40 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	6	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	Less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

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ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-04-09	7:55 AM	Matrix DW
			Temperature on Receipt 10
Date/Time on Test	2019-04-09	9:30 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Sampler @ Silica and Stanley	Sample #	2
Date/Time Sampled	2019-04-09	8:10 AM	Matrix DW
			Temperature on Receipt 10
Date/Time on Test	2019-04-09	9:35 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Nelson Car Wash	Sample #	3
Date/Time Sampled	2019-04-09	8:26 AM	Matrix DW
			Temperature on Receipt 10
Date/Time on Test	2019-04-09	9:40 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Sampler @ Fell and 11th	Sample #	4
Date/Time Sampled	2019-04-09	8:36 AM	Matrix DW
			Temperature on Receipt 10
Date/Time on Test	2019-04-09	9:45 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-04-09	9:01 AM	Matrix SW
			Temperature on Receipt 10
Date/Time on Test	2019-04-09	9:50 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	8	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

References



4240 Passmore Upper Road, Winlaw BC, V0G2J0
250-226-7339
test@passmorelaboratory.ca
passmorelaboratory.ca

Client City of Nelson
Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-04-16	8:00 AM	Matrix DW

Date/Time on Test 2019-04-16 9:50 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Sampler @ Silica and Stanley	Sample #	2
Date/Time Sampled	2019-04-16	8:21 AM	Matrix DW

Date/Time on Test 2019-04-16 9:55 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Sampler @ 3rd and Davies	Sample #	3
Date/Time Sampled	2019-04-16	8:55 AM	Matrix DW

Date/Time on Test 2019-04-16 10:00 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Sampler @ Fell and 11th	Sample #	4
Date/Time Sampled	2019-04-16	9:07 AM	Matrix DW

Date/Time on Test 2019-04-16 10:00 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-04-16	8:34 AM	Matrix SW

Date/Time on Test 2019-04-16 10:10 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	6	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

References



Report# 1508
Filename 190418CN.pdf

4240 Passmore Upper Road, Winlaw BC, V0G2J0
250-226-7339
test@passmorelaboratory.ca
passmorelaboratory.ca

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Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample Site	1200 13th ST	Sample #	0
Date/Time Sampled	2019-04-18 10:49 AM	Matrix	DW

Date/Time on Test 2019-04-18 12:00 AM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
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Coliforms, Total	less than 1	CFU/100mL	1
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Verified E.coli	less than 1	CFU/100mL	1
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Glossary of Terms

Less than 1 Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.

APHA American Public Health Association

CFU/100mL Colony Forming Units per 100 milliliters

Matrix SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water

RDL Reportable Detection Limit

References



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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-04-23	7:47 AM	Matrix DW

Date/Time on Test 2019-04-23 6:30 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Sampler @ Silica and Stanley	Sample #	2
Date/Time Sampled	2019-04-23	8:03 AM	Matrix DW

Date/Time on Test 2019-04-23 6:35 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Sampler @ 3rd and Davies	Sample #	3
Date/Time Sampled	2019-04-23	8:47 AM	Matrix DW

Date/Time on Test 2019-04-23 6:40 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Sampler @ Fell and 11th	Sample #	4
Date/Time Sampled	2019-04-23	9:01 AM	Matrix DW

Date/Time on Test 2019-04-23 6:45 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-04-23	8:13 AM	Matrix SW

Date/Time on Test 2019-04-23 6:50 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	19	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-04-30	7:40 AM	Matrix DW

Date/Time on Test 2019-04-30 6:00 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1

Sample Site	Sampler @ Silica and Stanley	Sample #	2
Date/Time Sampled	2019-04-30	7:59 AM	Matrix DW

Date/Time on Test 2019-04-30 6:05 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1

Sample Site	Sampler @ 3rd and Davies	Sample #	3
Date/Time Sampled	2019-04-30	8:34 AM	Matrix DW

Date/Time on Test 2019-04-30 6:10 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1

Sample Site	Sampler @ Fell and 11th	Sample #	4
Date/Time Sampled	2019-04-30	8:51 AM	Matrix DW

Date/Time on Test 2019-04-30 6:15 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1

Sample Site	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-04-30	8:11 AM	Matrix RW

Date/Time on Test 2019-04-30 6:20 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	4	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

References



4240 Passmore Upper Road, Winlaw BC, V0G2J0
250-226-7339
test@passmorelaboratory.ca
passmorelaboratory.ca

Client City of Nelson
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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
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Date/Time Sampled	2019-05-07	7:45 AM	Matrix DW	Temperature on Receipt
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Date/Time on Test	2019-05-07	5:05 PM
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<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
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Coliforms, Total	less than 1	CFU/100mL	1
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Verified E.coli	less than 1	CFU/100mL	1
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Sample Site	Sampler @ Silica and Stanley	Sample #	2
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Date/Time Sampled	2019-05-07	8:13 AM	Matrix DW	Temperature on Receipt
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Date/Time on Test	2019-05-07	5:10 PM
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<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
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Coliforms, Total	less than 1	CFU/100mL	1
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Verified E.coli	less than 1	CFU/100mL	1
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Sample Site	Sampler @ 3rd and Davies	Sample #	3
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Date/Time Sampled	2019-05-07	8:28 AM	Matrix DW	Temperature on Receipt
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Date/Time on Test	2019-05-07	5:15 PM
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<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
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Coliforms, Total	less than 1	CFU/100mL	1
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Verified E.coli	less than 1	CFU/100mL	1
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Sample Site	Sampler @ Fell and 11th	Sample #	4
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Date/Time Sampled	2019-05-07	8:37 AM	Matrix DW	Temperature on Receipt
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Date/Time on Test	2019-05-07	5:20 PM
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<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
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Coliforms, Total	less than 1	CFU/100mL	1
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Verified E.coli	less than 1	CFU/100mL	1
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Sample Site	Mtn. Station Reservoir - Raw	Sample #	5
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Date/Time Sampled	2019-05-07	9:14 AM	Matrix SW	Temperature on Receipt
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Date/Time on Test	2019-05-07	5:30 PM
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<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
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Coliforms, Total	10	CFU/100mL	1
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Verified E.coli	2	CFU/100mL	1
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Fecal (Thermotolerant) Coliforms	2	CFU/100mL	1
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ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

References



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250-226-7339
test@passmorelaboratory.ca
passmorelaboratory.ca

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Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

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ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-05-14	9:25 AM	Matrix DW
			Temperature on Receipt 9
Date/Time on Test	2019-05-14	6:00 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Sampler @ Silica and Stanley	Sample #	2
Date/Time Sampled	2019-05-14	10:35 AM	Matrix DW
			Temperature on Receipt 8
Date/Time on Test	2019-05-14	6:05 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Sampler @ 3rd and Davies	Sample #	3
Date/Time Sampled	2019-05-14	8:49 AM	Matrix DW
			Temperature on Receipt 7
Date/Time on Test	2019-05-14	6:10 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Sampler @ Fell and 11th	Sample #	4
Date/Time Sampled	2019-05-14	8:56 AM	Matrix DW
			Temperature on Receipt 10
Date/Time on Test	2019-05-14	6:15 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-05-14	11:21 AM	Matrix SW
			Temperature on Receipt 7
Date/Time on Test	2019-05-14	6:20 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	11	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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250-226-7339
test@passmorelaboratory.ca
passmorelaboratory.ca

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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

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ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-05-21	8:35 AM	Matrix DW

Date/Time on Test 2019-05-21 7:00 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site Sampler @ Silica and Stanley Sample # 2

Date/Time Sampled 2019-05-21 9:25 AM Matrix DW Temperature on Receipt 9

Date/Time on Test 2019-05-21 7:05 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site Sampler @ 3rd and Davies Sample # 3

Date/Time Sampled 2019-05-21 10:55 AM Matrix DW Temperature on Receipt 10

Date/Time on Test 2019-05-21 7:10 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site Sampler @ Fell and 11th Sample # 4

Date/Time Sampled 2019-05-21 10:45 AM Matrix DW Temperature on Receipt 11

Date/Time on Test 2019-05-21 7:15 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site Mtn. Station Reservoir - Raw Sample # 5

Date/Time Sampled 2019-05-21 11:05 AM Matrix SW Temperature on Receipt 9

Date/Time on Test 2019-05-21 7:20 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	16	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

References



4240 Passmore Upper Road, Winlaw BC, V0G2J0
250-226-7339
test@passmorelaboratory.ca
passmorelaboratory.ca

Client City of Nelson
Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-05-28	8:04 AM	Matrix DW

Date/Time on Test 2019-05-28 6:00 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1

Sample Site Sampler @ Silica and Stanley Sample # 2

Date/Time Sampled	2019-05-28	8:40 AM	Matrix DW	Temperature on Receipt	10
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Date/Time on Test 2019-05-28 6:05 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1

Sample Site Sampler @ 3rd and Davies Sample # 3

Date/Time Sampled	2019-05-28	8:56 AM	Matrix DW	Temperature on Receipt	12
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Date/Time on Test 2019-05-28 6:10 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1

Sample Site Sampler @ Fell and 11th Sample # 4

Date/Time Sampled	2019-05-28	9:05 AM	Matrix DW	Temperature on Receipt	11
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Date/Time on Test 2019-05-28 6:15 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1

Sample Site Mtn. Station Reservoir - Raw Sample # 5

Date/Time Sampled	2019-05-28	9:24 AM	Matrix SW	Temperature on Receipt	11
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Date/Time on Test 2019-05-28 6:20 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	6	CFU/100mL	1
Verified E.coli	4	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	4	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

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Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-06-04	8:23 AM	Matrix DW

Date/Time on Test 2019-06-04 5:50 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Sampler @ Silica and Stanley	Sample #	2
Date/Time Sampled	2019-06-04	9:23 AM	Matrix DW

Date/Time on Test 2019-06-04 5:55 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Sampler @ 3rd and Davies	Sample #	3
Date/Time Sampled	2019-06-04	9:15 AM	Matrix DW

Date/Time on Test 2019-06-04 6:00 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Sampler @ Fell and 11th	Sample #	4
Date/Time Sampled	2019-06-04	9:03 AM	Matrix DW

Date/Time on Test 2019-06-04 6:05 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-06-04	8:50 AM	Matrix SW

Date/Time on Test 2019-06-04 6:11 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	19	CFU/100mL	1
Verified E.coli	1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

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Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-06-11	8:00 AM	Matrix DW

Date/Time on Test 2019-06-11 4:50 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Sampler @ Silica and Stanley	Sample #	2
Date/Time Sampled	2019-06-11	8:20 AM	Matrix DW

Date/Time on Test 2019-06-11 4:55 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Sampler @ 3rd and Davies	Sample #	3
Date/Time Sampled	2019-06-11	8:30 AM	Matrix DW

Date/Time on Test 2019-06-11 5:00 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Sampler @ Fell and 11th	Sample #	4
Date/Time Sampled	2019-06-11	8:40 AM	Matrix DW

Date/Time on Test 2019-06-11 5:05 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-06-11	10:30 AM	Matrix SW

Date/Time on Test 2019-06-11 5:10 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	20	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
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Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-06-11	8:00 AM	Matrix DW
			Temperature on Receipt 9
Date/Time on Test	2019-06-11	4:50 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Sampler @ Silica and Stanley	Sample #	2
Date/Time Sampled	2019-06-11	8:20 AM	Matrix DW
			Temperature on Receipt 11
Date/Time on Test	2019-06-11	4:55 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Sampler @ 3rd and Davies	Sample #	3
Date/Time Sampled	2019-06-11	8:30 AM	Matrix DW
			Temperature on Receipt 10
Date/Time on Test	2019-06-11	5:00 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Sampler @ Fell and 11th	Sample #	4
Date/Time Sampled	2019-06-11	8:40 AM	Matrix DW
			Temperature on Receipt 8
Date/Time on Test	2019-06-11	5:05 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-06-11	10:30 AM	Matrix SW
			Temperature on Receipt 11
Date/Time on Test	2019-06-11	5:10 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	20	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
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Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample Site	Anderson Creek			Sample #	1
Date/Time Sampled	2019-06-14	12:00 PM	Matrix DW	Temperature on Receipt	
Date/Time on Test	2019-06-14	2:07 PM			
<u>Analyses</u>	<u>Result</u>		<u>Units</u>	<u>RDL</u>	
Coliforms, Total	Less than 1		CFU/100mL	1	
Verified E.coli	Less than 1		CFU/100mL	1	
Fecal (Thermotolerant) Coliforms	Less than 1		CFU/100mL	1	

Glossary of Terms

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APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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250-226-7339
test@passmorelaboratory.ca
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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Lynne Alexander

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample Site	Anderson Creek			Sample #	1
Date/Time Sampled	2019-06-17	10:30 AM	Matrix SW	Temperature on Receipt	14

Date/Time on Test 2019-06-17 4:10 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	53	CFU/100mL	1
Verified E.coli	2	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	2	CFU/100mL	1

Sample Site	Anderson Creek			Sample #	2
Date/Time Sampled	2019-06-17	10:45 AM	Matrix DW	Temperature on Receipt	13

Date/Time on Test 2019-06-17 4:10 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Glossary of Terms

Less than 1 Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.

APHA American Public Health Association

CFU/100mL Colony Forming Units per 100 milliliters

Matrix SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water

RDL Reportable Detection Limit

References



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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I

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Processed by: Mechelle Babic

Jennifer Yeow,
Lab Manager

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ANALYTICAL RESULTS

Sample Site	1100 Ward Street, Nelson, BC	Sample #	1
Date/Time Sampled	2019-06-17 11:45 AM	Matrix	DW

Date/Time on Test 2019-06-17 5:00 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Glossary of Terms

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
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CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

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ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-06-25	8:33 AM	Matrix DW

Date/Time on Test 2019-06-25 5:10 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Sampler @ Silica and Stanley	Sample #	2
Date/Time Sampled	2019-06-25	8:47 AM	Matrix DW

Date/Time on Test 2019-06-25 5:15 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Sampler @ 3rd and Davies	Sample #	3
Date/Time Sampled	2019-06-25	10:24 AM	Matrix DW

Date/Time on Test 2019-06-25 5:20 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Sampler @ Fell and 11th	Sample #	4
Date/Time Sampled	2019-06-25	10:34 AM	Matrix DW

Date/Time on Test 2019-06-25 5:25 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-06-25	8:15 AM	Matrix SW

Date/Time on Test 2019-06-25 5:30 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	25	CFU/100mL	1
Verified E.coli	4	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	4	CFU/100mL	1

ANALYTICAL RESULTS

Sample Site	elwyn P.R.V (anderson creek)			Sample #	6	
Date/Time Sampled	2019-06-25	10:42 AM	Matrix	DW	Temperature on Receipt	8
Date/Time on Test	2019-06-25 5:35 PM					
<u>Analyses</u>	<u>Result</u>		<u>Units</u>	<u>RDL</u>		
Coliforms, Total	less than 1		CFU/100mL	1		
Verified E.coli	less than 1		CFU/100mL	1		

Glossary of Terms

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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passmorelaboratory.ca

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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-07-02	Matrix	DW

Date/Time on Test 2019-07-02 7:30 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Sampler @ Silica and Stanley	Sample #	2
Date/Time Sampled	2019-07-02	Matrix	DW

Date/Time on Test 2019-07-02 7:35 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Sampler @ 3rd and Davies	Sample #	3
Date/Time Sampled	2019-07-02	Matrix	DW

Date/Time on Test 2019-07-02 7:40 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Sampler @ Fell and 11th	Sample #	4
Date/Time Sampled	2019-07-02	Matrix	DW

Date/Time on Test 2019-07-02 7:45 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-07-02	Matrix	SW

Date/Time on Test 2019-07-02 7:50 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	16	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

Comments Lots of sediment. Interferences can affect results.

ANALYTICAL RESULTS

Sample Site	elwyn P.R.V (anderson creek)			Sample #	6	
Date/Time Sampled	2019-07-02			Matrix	DW	
Date/Time on Test	2019-07-02	7:55 PM			Temperature on Receipt	9
<u>Analyses</u>	<u>Result</u>			<u>Units</u>	<u>RDL</u>	
Coliforms, Total	less than 1			CFU/100mL	1	
Verified E.coli	less than 1			CFU/100mL	1	

Glossary of Terms

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

References



4240 Passmore Upper Road, Winlaw BC, V0G2J0
250-226-7339
test@passmorelaboratory.ca
passmorelaboratory.ca

Client City of Nelson
Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

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ANALYTICAL RESULTS

Sample Site	1200 Ward Street	Sample #	1
Date/Time Sampled	2019-07-05 11:45 AM	Matrix	DW

Date/Time on Test 2019-07-05 4:45 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Comments light sediment on filter

Glossary of Terms

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

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ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-09-07	8:00 AM	Matrix DW
Temperature on Receipt	11		
Date/Time on Test	2019-09-07	5:40 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Sampler @ Silica and Stanley	Sample #	2
Date/Time Sampled	2019-09-07	8:10 AM	Matrix DW
Temperature on Receipt	12		
Date/Time on Test	2019-09-07	5:45 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Sampler @ 3rd and Davies	Sample #	3
Date/Time Sampled	2019-09-07	9:36 AM	Matrix DW
Temperature on Receipt	13		
Date/Time on Test	2019-09-07	5:45 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Sampler @ Fell and 11th	Sample #	4
Date/Time Sampled	2019-09-07	9:30 AM	Matrix DW
Temperature on Receipt	13		
Date/Time on Test	2019-09-07	5:50 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-09-07	9:12 AM	Matrix SW
Temperature on Receipt	13		
Date/Time on Test	2019-09-07	6:00 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	47	CFU/100mL	1
Verified E.coli	4	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	4	CFU/100mL	1

ANALYTICAL RESULTS

Sample Site	elwyn P.R.V (anderson creek)			Sample #	6	
Date/Time Sampled	2019-09-07	9:25 AM	Matrix	DW	Temperature on Receipt	13
Date/Time on Test	2019-09-07 6:05 PM					
<u>Analyses</u>	<u>Result</u>		<u>Units</u>	<u>RDL</u>		
Coliforms, Total	less than 1		CFU/100mL	1		
Verified E.coli	less than 1		CFU/100mL	1		

Glossary of Terms

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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4240 Passmore Upper Road, Winlaw BC, V0G2J0
250-226-7339
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Client City of Nelson
Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

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ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-07-16	8:01 AM	Matrix DW
			Temperature on Receipt 12
Date/Time on Test	2019-07-16	5:35 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Sampler @ Silica and Stanley	Sample #	2
Date/Time Sampled	2019-07-16	8:20 AM	Matrix DW
			Temperature on Receipt 12
Date/Time on Test	2019-07-16	5:40 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Sampler @ 3rd and Davies	Sample #	3
Date/Time Sampled	2019-07-16	9:38 AM	Matrix DW
			Temperature on Receipt 13
Date/Time on Test	2019-07-16	5:45 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Sampler @ Fell and 11th	Sample #	4
Date/Time Sampled	2019-07-16	9:15 AM	Matrix DW
			Temperature on Receipt 12
Date/Time on Test	2019-07-16	5:50 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-07-16	9:05 AM	Matrix SW
			Temperature on Receipt 12
Date/Time on Test	2019-07-16	5:55 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	47	CFU/100mL	1
Verified E.coli	6	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	6	CFU/100mL	1

ANALYTICAL RESULTS

Sample Site	elwyn P.R.V (anderson creek)			Sample #	6	
Date/Time Sampled	2019-07-16	9:29 AM	Matrix	DW	Temperature on Receipt	14
Date/Time on Test	2019-07-16 6:00 PM					
<u>Analyses</u>	<u>Result</u>		<u>Units</u>	<u>RDL</u>		
Coliforms, Total	less than 1		CFU/100mL	1		
Verified E.coli	less than 1		CFU/100mL	1		

Glossary of Terms

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

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ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-07-23	7:52 AM	Matrix DW
Temperature on Receipt	10		
Date/Time on Test	2019-07-23	6:00 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Sampler @ Silica and Stanley	Sample #	2
Date/Time Sampled	2019-07-23	8:15 AM	Matrix DW
Temperature on Receipt	10		
Date/Time on Test	2019-07-23	6:05 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Sampler @ 3rd and Davies	Sample #	3
Date/Time Sampled	2019-07-23	8:28 AM	Matrix DW
Temperature on Receipt	11		
Date/Time on Test	2019-07-23	6:10 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Sampler @ Fell and 11th	Sample #	4
Date/Time Sampled	2019-07-23	8:44 AM	Matrix DW
Temperature on Receipt	10		
Date/Time on Test	2019-07-23	6:15 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-07-23	9:15 AM	Matrix SW
Temperature on Receipt	10		
Date/Time on Test	2019-07-23	6:20 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	32	CFU/100mL	1
Verified E.coli	6	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	6	CFU/100mL	1

ANALYTICAL RESULTS

Sample Site	elwyn P.R.V (anderson creek)			Sample #	6	
Date/Time Sampled	2019-07-23	8:38 AM	Matrix	DW	Temperature on Receipt	11
Date/Time on Test	2019-07-23 6:25 PM					
<u>Analyses</u>	<u>Result</u>		<u>Units</u>	<u>RDL</u>		
Coliforms, Total	less than 1		CFU/100mL	1		
Verified E.coli	less than 1		CFU/100mL	1		

Glossary of Terms

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

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ANALYTICAL RESULTS

Sample Site	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-07-30	8:00 AM	Matrix DW
Temperature on Receipt	11		
Date/Time on Test	2019-07-30	12:00 AM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Sampler @ Silica and Stanley	Sample #	2
Date/Time Sampled	2019-07-30	8:00 AM	Matrix DW
Temperature on Receipt	11		
Date/Time on Test	2019-07-30	12:00 AM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Sampler @ 3rd and Davies	Sample #	3
Date/Time Sampled	2019-07-30	8:40 AM	Matrix DW
Temperature on Receipt	10		
Date/Time on Test	2019-07-30	12:00 AM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Sampler @ Fell and 11th	Sample #	4
Date/Time Sampled	2019-07-30	8:35 AM	Matrix DW
Temperature on Receipt	11		
Date/Time on Test	2019-07-30	12:00 AM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample Site	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-07-30	7:20 AM	Matrix SW
Temperature on Receipt	12		
Date/Time on Test	2019-07-30	12:00 AM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	35	CFU/100mL	1
Verified E.coli	1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	1	CFU/100mL	1

ANALYTICAL RESULTS

Sample Site	elwyn P.R.V (anderson creek)			Sample #	6
Date/Time Sampled	2019-07-30	8:20 AM	Matrix DW	Temperature on Receipt	11

Date/Time on Test 2019-07-30 12:00 AM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample Site Selous Creek @ Stanley & Stibbs Sample # 7

Date/Time Sampled 2019-07-30 11:10 AM Matrix DW Temperature on Receipt 11

Date/Time on Test 2019-07-30 12:00 AM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Glossary of Terms

Less than 1 Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.

APHA American Public Health Association

CFU/100mL Colony Forming Units per 100 milliliters

Matrix SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water

RDL Reportable Detection Limit

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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

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ANALYTICAL RESULTS

Sample Site	500 block Observatory	Sample #	1
Date/Time Sampled	2019-08-01 1:00 PM	Matrix	DW

Date/Time on Test 2019-08-01 6:00 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Glossary of Terms

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

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ANALYTICAL RESULTS

Sample ID	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-06-08	8:39 AM	Matrix DW

Date/Time on Test 2019-06-08 6:45 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Sampler @ Silica and Stanley	Sample #	2
Date/Time Sampled	2019-06-08	8:25 AM	Matrix DW

Date/Time on Test 2019-06-08 6:50 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Sampler @ 3rd and Davies	Sample #	3
Date/Time Sampled	2019-06-08	10:09 AM	Matrix DW

Date/Time on Test 2019-06-08 6:55 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Sampler @ Fell and 11th	Sample #	4
Date/Time Sampled	2019-06-08	10:39 AM	Matrix DW

Date/Time on Test 2019-06-08 6:55 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-06-08	9:12 AM	Matrix SW

Date/Time on Test 2019-06-08 7:00 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	26	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	1	CFU/100mL	1

ANALYTICAL RESULTS

Sample ID	elwyn P.R.V (anderson creek)			Sample #	6
Date/Time Sampled	2019-06-08	10:18 AM	Matrix DW	Temperature on Receipt	10

Date/Time on Test 2019-06-08 7:05 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Stanley& Stibbs	Sample #	7
Date/Time Sampled	2019-06-08	9:28 AM	Matrix DW

Date/Time on Test 2019-06-08 7:10 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Glossary of Terms

Less than 1 Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.

APHA American Pubic Health Association

CFU/100mL Colony Forming Units per 100 milliliters

Matrix SW = Surface water, TW =Treated water, DW= Distribution water, UGW = Untreated Ground water, RW = Raw water

RDL Reportable Detection Limit

References



4240 Passmore Upper Road, Winlaw BC, V0G2J0
250-226-7339
test@passmorelaboratory.ca
passmorelaboratory.ca

Client City of Nelson
Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample ID	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-08-13	7:30 AM	Matrix DW

Date/Time on Test 2019-08-13 5:00 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Sampler @ Silica and Stanley Sample # 2

Date/Time Sampled	2019-08-13	8:15 AM	Matrix DW	Temperature on Receipt	9
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Date/Time on Test 2019-08-13 5:05 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Comments Light background growth

Sample ID Sampler @ 3rd and Davies Sample # 3

Date/Time Sampled	2019-08-13	8:35 AM	Matrix DW	Temperature on Receipt	12
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Date/Time on Test 2019-08-13 5:10 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Sampler @ Fell and 11th Sample # 4

Date/Time Sampled	2019-08-13	8:53 AM	Matrix DW	Temperature on Receipt	10
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Date/Time on Test 2019-08-13 5:10 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Mtn. Station Reservoir - Raw Sample # 5

Date/Time Sampled	2019-08-13	9:08 AM	Matrix SW	Temperature on Receipt	13
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Date/Time on Test 2019-08-13 5:15 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	51	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS

Sample ID	Anderson Creek - Sample @ Elwyn PRV			Sample #	6
Date/Time Sampled	2019-08-13	8:41 AM	Matrix	DW	Temperature on Receipt 10
Date/Time on Test	2019-08-13 5:20 PM				
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>		
Coliforms, Total	less than 1	CFU/100mL	1		
Verified E.coli	less than 1	CFU/100mL	1		

Sample ID	Selous Creek @ Stanley & Stibbs			Sample #	7
Date/Time Sampled	2019-08-13	8:00 AM	Matrix	DW	Temperature on Receipt 11
Date/Time on Test	2019-08-13 5:25 PM				
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>		
Coliforms, Total	less than 1	CFU/100mL	1		
Verified E.coli	less than 1	CFU/100mL	1		

Glossary of Terms

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

References



4240 Passmore Upper Road, Winlaw BC, V0G2J0
250-226-7339
test@passmorelaboratory.ca
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Client City of Nelson

Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Jennifer Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample ID	Sampler @ Silica and Stanley	Sample #	1
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Date/Time Sampled	2019-08-15	12:40 PM	Matrix DW	Temperature on Receipt
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Date/Time on Test	2019-08-22	3:00 PM
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<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1

Glossary of Terms

Less than 1 Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.

APHA American Public Health Association

CFU/100mL Colony Forming Units per 100 milliliters

Matrix SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water

RDL Reportable Detection Limit

References



4240 Passmore Upper Road, Winlaw BC, V0G2J0
250-226-7339
test@passmorelaboratory.ca
passmorelaboratory.ca

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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample ID	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-08-20	9:15 AM	Matrix DW

Date/Time on Test 2019-08-20 5:10 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Sampler @ Silica and Stanley	Sample #	2
Date/Time Sampled	2019-08-20	8:40 AM	Matrix DW

Date/Time on Test 2019-08-20 5:15 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Sampler @ 3rd and Davies	Sample #	3
Date/Time Sampled	2019-08-20	9:40 AM	Matrix DW

Date/Time on Test 2019-08-20 5:20 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Sampler @ Fell and 11th	Sample #	4
Date/Time Sampled	2019-08-20	9:50 AM	Matrix DW

Date/Time on Test 2019-08-20 5:25 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-08-20	8:55 AM	Matrix SW

Date/Time on Test 2019-08-20 5:30 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	47	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS

Sample ID	Anderson Creek - Sample @ Elwyn PRV			Sample #	6	
Date/Time Sampled	2019-08-20	10:00 AM	Matrix	DW	Temperature on Receipt	12
Date/Time on Test	2019-08-20 5:35 PM					
<u>Analyses</u>	<u>Result</u>		<u>Units</u>	<u>RDL</u>		
Coliforms, Total	less than 1		CFU/100mL	1		
Verified E.coli	less than 1		CFU/100mL	1		

Sample ID	Selous Creek @ Stanley & Stibbs			Sample #	7	
Date/Time Sampled	2019-08-20	9:02 AM	Matrix	DW	Temperature on Receipt	13
Date/Time on Test	2019-08-20 5:40 PM					
<u>Analyses</u>	<u>Result</u>		<u>Units</u>	<u>RDL</u>		
Coliforms, Total	less than 1		CFU/100mL	1		
Verified E.coli	less than 1		CFU/100mL	1		

Glossary of Terms

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

References



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test@passmorelaboratory.ca
passmorelaboratory.ca

Client City of Nelson
Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Lynne Alexander

Jennifer Yeow,
Lab Manager

A handwritten signature in black ink that reads "Jennifer Yeow".

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample ID	1100 Josephine St	Sample #	1
Date/Time Sampled	2019-08-21 9:45 AM	Matrix	TW

Date/Time on Test 2019-08-21 2:45 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Glossary of Terms

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

References



4240 Passmore Upper Road, Winlaw BC, V0G2J0
250-226-7339
test@passmorelaboratory.ca
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Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample ID	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-08-27	8:30 AM	Matrix DW

Date/Time on Test 2019-08-27 5:30 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Sampler @ Silica and Stanley Sample # 2

Date/Time Sampled	2019-08-27	9:10 AM	Matrix DW	Temperature on Receipt	10
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Date/Time on Test 2019-08-27 5:35 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Sampler @ 3rd and Davies Sample # 3

Date/Time Sampled	2019-08-27	10:56 AM	Matrix DW	Temperature on Receipt	11
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Date/Time on Test 2019-08-27 5:40 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Sampler @ Fell and 11th Sample # 4

Date/Time Sampled	2019-08-27	11:14 AM	Matrix DW	Temperature on Receipt	11
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Date/Time on Test 2019-08-27 5:45 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Mtn. Station Reservoir - Raw Sample # 5

Date/Time Sampled	2019-08-27	11:46 AM	Matrix SW	Temperature on Receipt	11
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Date/Time on Test 2019-08-27 5:50 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	43	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS

Sample ID	Anderson Creek - Sample @ Elwyn PRV			Sample #	6	
Date/Time Sampled	2019-08-27	11:25 AM	Matrix	DW	Temperature on Receipt	11
Date/Time on Test	2019-08-27 5:55 PM					
<u>Analyses</u>	<u>Result</u>		<u>Units</u>	<u>RDL</u>		
Coliforms, Total	less than 1		CFU/100mL	1		
Verified E.coli	less than 1		CFU/100mL	1		

Sample ID	Selous Creek @ Stanley & Stibbs			Sample #	7	
Date/Time Sampled	2019-08-27	9:26 AM	Matrix	DW	Temperature on Receipt	13
Date/Time on Test	2019-08-27 6:00 PM					
<u>Analyses</u>	<u>Result</u>		<u>Units</u>	<u>RDL</u>		
Coliforms, Total	less than 1		CFU/100mL	1		
Verified E.coli	less than 1		CFU/100mL	1		

Glossary of Terms

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

References



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250-226-7339
test@passmorelaboratory.ca
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Client City of Nelson
Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample ID	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-09-03	8:08 AM	Matrix DW

Date/Time on Test 2019-09-03 12:00 AM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Sampler @ Silica and Stanley	Sample #	2
Date/Time Sampled	2019-09-03	9:30 AM	Matrix DW

Date/Time on Test 2019-09-03 12:00 AM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Sampler @ 3rd and Davies	Sample #	3
Date/Time Sampled	2019-09-03	12:10 PM	Matrix DW

Date/Time on Test 2019-09-03 12:00 AM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Sampler @ Fell and 11th	Sample #	4
Date/Time Sampled	2019-09-03	12:00 PM	Matrix DW

Date/Time on Test 2019-09-03 12:00 AM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-09-03	11:34 AM	Matrix SW

Date/Time on Test 2019-09-03 12:00 AM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	50	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS

Sample ID	Anderson Creek - Sample @ Elwyn PRV			Sample #	6	
Date/Time Sampled	2019-09-03	11:51 AM	Matrix	DW	Temperature on Receipt	12
Date/Time on Test	2019-09-03 12:00 AM					
<u>Analyses</u>	<u>Result</u>		<u>Units</u>	<u>RDL</u>		
Coliforms, Total	less than 1		CFU/100mL	1		
Verified E.coli	less than 1		CFU/100mL	1		

Sample ID	Selous Creek @ Stanley & Stibbs			Sample #	7	
Date/Time Sampled	2019-09-03	8:39 AM	Matrix	DW	Temperature on Receipt	13
Date/Time on Test	2019-09-03 12:00 AM					
<u>Analyses</u>	<u>Result</u>		<u>Units</u>	<u>RDL</u>		
Coliforms, Total	less than 1		CFU/100mL	1		
Verified E.coli	less than 1		CFU/100mL	1		

Glossary of Terms

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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test@passmorelaboratory.ca
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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample ID	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-09-10	7:50 AM	Matrix DW

Date/Time on Test 2019-09-10 6:25 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Sampler @ Silica and Stanley	Sample #	2
Date/Time Sampled	2019-09-10	8:40 AM	Matrix DW

Date/Time on Test 2019-09-10 6:30 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Sampler @ 3rd and Davies	Sample #	3
Date/Time Sampled	2019-09-10	9:00 AM	Matrix DW

Date/Time on Test 2019-09-10 6:35 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Sampler @ Fell and 11th	Sample #	4
Date/Time Sampled	2019-09-10	9:20 AM	Matrix DW

Date/Time on Test 2019-09-10 6:40 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-09-10	9:30 AM	Matrix SW

Date/Time on Test 2019-09-10 6:45 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	61	CFU/100mL	1
Verified E.coli	10	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	10	CFU/100mL	1

Comments lots of sediment

ANALYTICAL RESULTS

Sample ID	Anderson Creek - Sample @ Elwyn PRV			Sample #	6
Date/Time Sampled	2019-09-10	9:10 AM	Matrix DW	Temperature on Receipt	7

Date/Time on Test 2019-09-10 6:50 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Selous Creek			Sample #	7
Date/Time Sampled	2019-09-10	8:15 AM	Matrix DW	Temperature on Receipt	8

Date/Time on Test 2019-09-10 6:55 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Glossary of Terms

Less than 1 Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.

APHA American Public Health Association

CFU/100mL Colony Forming Units per 100 milliliters

Matrix SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water

RDL Reportable Detection Limit

References



4240 Passmore Upper Road, Winlaw BC, V0G2J0
250-226-7339
test@passmorelaboratory.ca
passmorelaboratory.ca

Client City of Nelson
Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample ID	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-09-17	7:45 AM	Matrix DW

Date/Time on Test 2019-09-17 5:50 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Sampler @ Silica and Stanley Sample # 2

Date/Time Sampled 2019-09-17 8:30 AM Matrix DW Temperature on Receipt 7

Date/Time on Test 2019-09-17 5:55 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Sampler @ 3rd and Davies Sample # 3

Date/Time Sampled 2019-09-17 8:45 AM Matrix DW Temperature on Receipt 7

Date/Time on Test 2019-09-17 6:00 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Sampler @ Fell and 11th Sample # 4

Date/Time Sampled 2019-09-17 9:10 AM Matrix DW Temperature on Receipt 7

Date/Time on Test 2019-09-17 6:05 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

ANALYTICAL RESULTS

Sample ID	Mtn. Station Reservoir - Raw			Sample #	5
Date/Time Sampled	2019-09-17	9:25 AM	Matrix SW	Temperature on Receipt	7

Date/Time on Test 2019-09-17 6:10 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Sediment and confluent growth. Unable to count	CFU/100mL	1
Verified E.coli	4	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	4	CFU/100mL	1

Sample ID Anderson Creek - Sample @ Elwyn PRV Sample # 6

Date/Time Sampled	2019-09-17	8:50 AM	Matrix DW	Temperature on Receipt	9
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Date/Time on Test 2019-09-17 6:15 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Selous Creek @ Stanley & Stibbs Sample # 7

Date/Time Sampled	2019-09-17	8:20 AM	Matrix DW	Temperature on Receipt	7
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Date/Time on Test 2019-09-17 6:20 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Glossary of Terms

Less than 1 Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.

APHA American Public Health Association

CFU/100mL Colony Forming Units per 100 milliliters

Matrix SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water

RDL Reportable Detection Limit

References



4240 Passmore Upper Road, Winlaw BC, V0G2J0
250-226-7339
test@passmorelaboratory.ca
passmorelaboratory.ca

Client City of Nelson
Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample ID	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-09-24	7:55 AM	Matrix DW

Date/Time on Test 2019-09-24 5:30 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Sampler @ Silica and Stanley Sample # 2

Date/Time Sampled	2019-09-24	8:45 AM	Matrix DW	Temperature on Receipt	10
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Date/Time on Test 2019-09-24 5:35 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Sampler @ 3rd and Davies Sample # 3

Date/Time Sampled	2019-09-24	8:55 AM	Matrix DW	Temperature on Receipt	10
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Date/Time on Test 2019-09-24 5:40 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Sampler @ Fell and 11th Sample # 4

Date/Time Sampled	2019-09-24	9:07 AM	Matrix DW	Temperature on Receipt	10
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Date/Time on Test 2019-09-24 5:45 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Mtn. Station Reservoir - Raw Sample # 5

Date/Time Sampled	2019-09-24	9:35 AM	Matrix SW	Temperature on Receipt	8
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Date/Time on Test 2019-09-24 5:55 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	142	CFU/100mL	1
Verified E.coli	2	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	2	CFU/100mL	1

ANALYTICAL RESULTS

Sample ID	Selous Creek @ Stanley & Stibbs			Sample #	6	
Date/Time Sampled	2019-09-24	8:25 AM	Matrix	DW	Temperature on Receipt	9
Date/Time on Test	2019-09-24 6:00 PM					
<u>Analyses</u>	<u>Result</u>		<u>Units</u>	<u>RDL</u>		
Coliforms, Total	less than 1		CFU/100mL	1		
Verified E.coli	less than 1		CFU/100mL	1		

Glossary of Terms

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

References



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250-226-7339
test@passmorelaboratory.ca
passmorelaboratory.ca

Client City of Nelson
Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample ID	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-10-01	8:30 AM	Matrix DW

Date/Time on Test 2019-10-01 5:35 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Sampler @ Silica and Stanley Sample # 2

Date/Time Sampled	2019-10-01	9:01 AM	Matrix DW	Temperature on Receipt	8
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Date/Time on Test 2019-10-01 5:40 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Sampler @ 3rd and Davies Sample # 3

Date/Time Sampled	2019-10-01	9:15 AM	Matrix DW	Temperature on Receipt	9
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Date/Time on Test 2019-10-01 5:45 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Sampler @ Fell and 11th Sample # 4

Date/Time Sampled	2019-10-01	9:20 AM	Matrix DW	Temperature on Receipt	8
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Date/Time on Test 2019-10-01 5:50 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Mtn. Station Reservoir - Raw Sample # 5

Date/Time Sampled	2019-10-01	9:35 AM	Matrix SW	Temperature on Receipt	9
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Date/Time on Test 2019-10-01 5:55 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	52	CFU/100mL	1
Verified E.coli	1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	1	CFU/100mL	1

ANALYTICAL RESULTS

Sample ID	Selous Creek @ Stanley & Stibbs			Sample #	6	
Date/Time Sampled	2019-10-01	8:40 AM	Matrix	DW	Temperature on Receipt	8
Date/Time on Test	2019-10-01	6:00 PM				
<u>Analyses</u>	<u>Result</u>		<u>Units</u>	<u>RDL</u>		
Coliforms, Total	less than 1		CFU/100mL	1		
Verified E.coli	less than 1		CFU/100mL	1		

Glossary of Terms

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

References



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test@passmorelaboratory.ca
passmorelaboratory.ca

Client City of Nelson
Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample ID	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-10-08	9:00 AM	Matrix DW

Date/Time on Test 2019-10-08 5:45 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Sampler @ Silica and Stanley Sample # 2

Date/Time Sampled	2019-10-08	9:15 AM	Matrix DW	Temperature on Receipt	8
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Date/Time on Test 2019-10-08 5:50 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Sampler @ 3rd and Davies Sample # 3

Date/Time Sampled	2019-10-08	10:30 AM	Matrix DW	Temperature on Receipt	8
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Date/Time on Test 2019-10-08 5:55 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Sampler @ Fell and 11th Sample # 4

Date/Time Sampled	2019-10-08	10:40 AM	Matrix DW	Temperature on Receipt	8
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Date/Time on Test 2019-10-08 6:00 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Mtn. Station Reservoir - Raw Sample # 5

Date/Time Sampled	2019-10-08	12:27 PM	Matrix SW	Temperature on Receipt	9
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Date/Time on Test 2019-10-08 6:05 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	28	CFU/100mL	1
Verified E.coli	2	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	2	CFU/100mL	1

ANALYTICAL RESULTS

Sample ID	Selous Creek			Sample #	6
Date/Time Sampled	2019-10-08	10:49 PM	Matrix	DW	Temperature on Receipt 10
Date/Time on Test	2019-10-08 6:10 PM				
<u>Analyses</u>	<u>Result</u>		<u>Units</u>	<u>RDL</u>	
Coliforms, Total	less than 1		CFU/100mL	1	
Verified E.coli	less than 1		CFU/100mL	1	

Glossary of Terms

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Lynne Alexander

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample ID	Rosemont Res.	Sample #	1
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Date/Time Sampled	2019-10-15	11:00 AM	Matrix TW	Temperature on Receipt	9
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Date/Time on Test	2019-10-15	3:50 PM
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<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
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Coliforms, Total	Less than 1	CFU/100mL	1
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Verified E.coli	Less than 1	CFU/100mL	1
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Sample ID	Sampler @ Silica and Stanley	Sample #	2
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Date/Time Sampled	2019-10-15	9:15 AM	Matrix TW	Temperature on Receipt	10
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Date/Time on Test	2019-10-15	3:55 PM
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<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
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Coliforms, Total	Less than 1	CFU/100mL	1
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Verified E.coli	Less than 1	CFU/100mL	1
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Sample ID	Sampler @ 3rd and Davies	Sample #	3
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Date/Time Sampled	2019-10-15	8:00 AM	Matrix TW	Temperature on Receipt	9
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Date/Time on Test	2019-10-15	3:55 PM
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<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
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Coliforms, Total	Less than 1	CFU/100mL	1
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Verified E.coli	Less than 1	CFU/100mL	1
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Sample ID	Sampler @ Fell and 11th	Sample #	4
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Date/Time Sampled	2019-10-15	6:00 AM	Matrix TW	Temperature on Receipt	8
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Date/Time on Test	2019-10-15	4:00 PM
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<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
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Coliforms, Total	Less than 1	CFU/100mL	1
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Verified E.coli	Less than 1	CFU/100mL	1
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Sample ID	Mtn. Station Reservoir - Raw	Sample #	5
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Date/Time Sampled	2019-10-15	11:30 AM	Matrix UGW	Temperature on Receipt	9
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Date/Time on Test	2019-10-15	4:00 PM
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<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
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Coliforms, Total	63	CFU/100mL	1
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Verified E.coli	Less than 1	CFU/100mL	1
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Fecal (Thermotolerant) Coliforms	Less than 1	CFU/100mL	1
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ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

References



Report# 1990
Filename 191017CN.pdf

4240 Passmore Upper Road, Winlaw BC, V0G2J0
250-226-7339
test@passmorelaboratory.ca
passmorelaboratory.ca

Client City of Nelson

Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Jennifer Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample ID	200 block Josephine St	Sample #	1
Date/Time Sampled	2019-10-17 9:30 AM	Matrix	DW

Date/Time on Test 2019-10-17 4:00 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1

Glossary of Terms

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Lynne Alexander

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample ID	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-10-22	Matrix	TW

Date/Time on Test 2019-10-22 3:35 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1

Sample ID Sampler @ Silica and Stanley Sample # 2

Date/Time Sampled 2019-10-22 Matrix TW Temperature on Receipt 9

Date/Time on Test 2019-10-22 3:35 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1

Sample ID Sampler @ 3rd and Davies Sample # 3

Date/Time Sampled 2019-10-22 Matrix TW Temperature on Receipt 9

Date/Time on Test 2019-10-22 3:40 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1

Sample ID Sampler @ Fell and 11th Sample # 4

Date/Time Sampled 2019-10-22 Matrix TW Temperature on Receipt 13

Date/Time on Test 2019-10-22 3:40 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	Less than 1	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1

Sample ID Mtn. Station Reservoir - Raw Sample # 5

Date/Time Sampled 2019-10-22 Matrix UGW Temperature on Receipt 13

Date/Time on Test 2019-10-22 3:45 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	32*	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	Less than 1	CFU/100mL	1

Comments * Heavy background growth was positive for total coliforms

ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Lynne Alexander

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample ID	Selous Creek			Sample #	1
Date/Time Sampled	2019-10-22	10:00 AM	Matrix	UGW	Temperature on Receipt 11

Date/Time on Test 2019-10-22 3:45 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	272	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	Less than 1	CFU/100mL	1

Sample ID	Anderson Creek			Sample #	2
Date/Time Sampled	2019-10-22	11:00 AM	Matrix	UGW	Temperature on Receipt 15

Date/Time on Test 2019-10-22 3:45 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	gt 400*	CFU/100mL	1
Verified E.coli	Less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	Less than 1	CFU/100mL	1

Comments *Heavy background growth positive for total coliforms gt - greater than

Glossary of Terms

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CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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Client City of Nelson
Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample ID	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-10-29	9:00 AM	Matrix DW

Date/Time on Test 2019-10-29 4:40 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Sampler @ Silica and Stanley Sample # 2

Date/Time Sampled 2019-10-29 9:10 AM Matrix DW Temperature on Receipt 6

Date/Time on Test 2019-10-29 4:45 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Sampler @ 3rd and Davies Sample # 3

Date/Time Sampled 2019-10-29 9:20 AM Matrix DW Temperature on Receipt 7

Date/Time on Test 2019-10-29 4:50 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Sampler @ Fell and 11th Sample # 4

Date/Time Sampled 2019-10-29 9:30 AM Matrix DW Temperature on Receipt 6

Date/Time on Test 2019-10-29 4:55 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Mtn. Station Reservoir - Raw Sample # 5

Date/Time Sampled 2019-10-29 9:45 AM Matrix SW Temperature on Receipt 8

Date/Time on Test 2019-10-29 5:00 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	37	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
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CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample ID	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-05-11	9:15 AM	Matrix DW

Date/Time on Test 2019-05-11 5:20 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Silica st. Sampler Sample # 2

Date/Time Sampled 2019-05-11 8:50 AM Matrix DW Temperature on Receipt 6

Date/Time on Test 2019-05-11 5:25 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Third and Davies Sampler Sample # 3

Date/Time Sampled 2019-05-11 8:25 AM Matrix DW Temperature on Receipt 5

Date/Time on Test 2019-05-11 5:30 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Sampler @ Fell and 11th Sample # 4

Date/Time Sampled 2019-05-11 8:10 AM Matrix DW Temperature on Receipt 6

Date/Time on Test 2019-05-11 5:35 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Mtn. Station Reservoir - Raw Sample # 5

Date/Time Sampled 2019-05-11 8:35 AM Matrix SW Temperature on Receipt 7

Date/Time on Test 2019-05-11 5:40 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	34	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

References



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test@passmorelaboratory.ca
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Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample ID	Rosemont Res.	Sample #	1
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Date/Time Sampled	2019-11-12	8:20 AM	Matrix DW	Temperature on Receipt	7
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Date/Time on Test	2019-11-12	5:35 PM
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<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
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Coliforms, Total	less than 1	CFU/100mL	1
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Verified E.coli	less than 1	CFU/100mL	1
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Sample ID	Silica st. Sampler	Sample #	2
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Date/Time Sampled	2019-11-12	9:00 AM	Matrix DW	Temperature on Receipt	7
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Date/Time on Test	2019-11-12	5:40 PM
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<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
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Coliforms, Total	less than 1	CFU/100mL	1
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Verified E.coli	less than 1	CFU/100mL	1
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Sample ID	Sampler @ 3rd and Davies	Sample #	3
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Date/Time Sampled	2019-11-12	9:15 AM	Matrix DW	Temperature on Receipt	7
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Date/Time on Test	2019-11-12	5:45 PM
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<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
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Coliforms, Total	less than 1	CFU/100mL	1
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Verified E.coli	less than 1	CFU/100mL	1
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Sample ID	Sampler @ Fell and 11th	Sample #	4
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Date/Time Sampled	2019-11-12	9:30 AM	Matrix DW	Temperature on Receipt	8
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Date/Time on Test	2019-11-12	5:50 PM
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<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
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Coliforms, Total	less than 1	CFU/100mL	1
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Verified E.coli	less than 1	CFU/100mL	1
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Sample ID	Mtn. Station Reservoir - Raw	Sample #	5
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Date/Time Sampled	2019-11-12	9:45 AM	Matrix SW	Temperature on Receipt	8
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Date/Time on Test	2019-11-12	6:00 PM
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<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
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Coliforms, Total	11	CFU/100mL	1
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Verified E.coli	less than 1	CFU/100mL	1
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Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1
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ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

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ANALYTICAL RESULTS

Sample ID	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-11-19	8:00 AM	Matrix DW

Date/Time on Test 2019-11-19 5:15 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Silica st. Sampler	Sample #	2
Date/Time Sampled	2019-11-19	8:20 AM	Matrix DW

Date/Time on Test 2019-11-19 5:20 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Sampler @ 3rd and Davies	Sample #	3
Date/Time Sampled	2019-11-19	8:35 AM	Matrix DW

Date/Time on Test 2019-11-19 5:25 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Sampler @ Fell and 11th	Sample #	4
Date/Time Sampled	2019-11-19	8:45 AM	Matrix DW

Date/Time on Test 2019-11-19 5:30 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-11-19	9:03 AM	Matrix SW

Date/Time on Test 2019-11-19 5:35 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	52	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample ID	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-11-26	9:00 AM	Matrix DW

Date/Time on Test 2019-11-26 5:50 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Silica st. Sampler	Sample #	2
Date/Time Sampled	2019-11-26	9:15 AM	Matrix DW

Date/Time on Test 2019-11-26 5:55 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Sampler @ 3rd and Davies	Sample #	3
Date/Time Sampled	2019-11-26	10:55 AM	Matrix DW

Date/Time on Test 2019-11-26 6:00 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Sampler @ Fell and 11th	Sample #	4
Date/Time Sampled	2019-11-26	11:05 AM	Matrix DW

Date/Time on Test 2019-11-26 6:00 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-11-26	9:35 AM	Matrix SW

Date/Time on Test 2019-11-26 6:05 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	62	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

References



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250-226-7339
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Client City of Nelson
Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample ID	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-12-03	8:15 AM	Matrix DW

Date/Time on Test 2019-12-03 4:25 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Silica st. Sampler Sample # 2

Date/Time Sampled 2019-12-03 8:40 AM Matrix DW Temperature on Receipt 4

Date/Time on Test 2019-12-03 4:30 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Sampler @ 3rd and Davies Sample # 3

Date/Time Sampled 2019-12-03 9:15 AM Matrix DW Temperature on Receipt 4

Date/Time on Test 2019-12-03 4:35 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Sampler @ Fell and 11th Sample # 4

Date/Time Sampled 2019-12-03 9:00 AM Matrix DW Temperature on Receipt 4

Date/Time on Test 2019-12-03 4:40 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Mtn. Station Reservoir - Raw Sample # 5

Date/Time Sampled 2019-12-03 9:32 AM Matrix SW Temperature on Receipt 5

Date/Time on Test 2019-12-03 4:45 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	16	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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Attention Martin Grill

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample ID	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-12-10	9:15 AM	Matrix DW

Date/Time on Test 2019-12-10 6:05 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Silica st. Sampler Sample # 2

Date/Time Sampled	2019-12-10	8:52 AM	Matrix DW	Temperature on Receipt	5
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Date/Time on Test 2019-12-10 6:10 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Sampler @ 3rd and Davies Sample # 3

Date/Time Sampled	2019-12-10	8:15 AM	Matrix DW	Temperature on Receipt	5
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Date/Time on Test 2019-12-10 6:15 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Sampler @ Fell and 11th Sample # 4

Date/Time Sampled	2019-12-10	8:00 AM	Matrix DW	Temperature on Receipt	4
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Date/Time on Test 2019-12-10 6:20 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID Mtn. Station Reservoir - Raw Sample # 5

Date/Time Sampled	2019-12-10	8:34 AM	Matrix SW	Temperature on Receipt	6
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Date/Time on Test 2019-12-10 6:25 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	20	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

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Processed by: Zach Yeow

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample ID	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-12-17	8:30 AM	Matrix DW

Date/Time on Test 2019-12-17 4:40 PM

Analyses	Result	Units	RDL
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Silica st. Sampler	Sample #	2
Date/Time Sampled	2019-12-17	8:50 AM	Matrix DW

Date/Time on Test 2019-12-17 4:45 PM

Analyses	Result	Units	RDL
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Sampler @ 3rd and Davies	Sample #	3
Date/Time Sampled	2019-12-17	9:41 AM	Matrix DW

Date/Time on Test 2019-12-17 4:50 PM

Analyses	Result	Units	RDL
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Sampler @ Fell and 11th	Sample #	4
Date/Time Sampled	2019-12-17	9:10 AM	Matrix DW

Date/Time on Test 2019-12-17 4:55 PM

Analyses	Result	Units	RDL
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-12-17	11:30 AM	Matrix SW

Date/Time on Test 2019-12-17 4:55 PM

Analyses	Result	Units	RDL
Coliforms, Total	12	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Lynne Alexander

Jennifer Yeow,
Lab Manager

Please call or Email for with any questions, feedback, or more information

ANALYTICAL RESULTS

Sample ID	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-12-23	8:00 AM	Matrix DW
			Temperature on Receipt 12
Date/Time on Test	2019-12-23	3:40 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample ID	Silica st. Sampler	Sample #	2
Date/Time Sampled	2019-12-23	8:15 AM	Matrix DW
			Temperature on Receipt 12
Date/Time on Test	2019-12-23	3:40 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample ID	Sampler @ 3rd and Davies	Sample #	3
Date/Time Sampled	2019-12-23	8:25 AM	Matrix DW
			Temperature on Receipt 14
Date/Time on Test	2019-12-23	3:45 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample ID	Sampler @ Fell and 11th	Sample #	4
Date/Time Sampled	2019-12-23	8:32 AM	Matrix DW
			Temperature on Receipt 12
Date/Time on Test	2019-12-23	3:45 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Sample ID	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-12-23	9:00 AM	Matrix SW
			Temperature on Receipt 14
Date/Time on Test	2019-12-23	3:50 PM	
<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	12	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
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CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I
Fecal Coliforms	Membrane Filtration on mFC medium	APHA 9222D

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Processed by: Lynne Alexander

Jennifer Yeow,
Lab Manager

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ANALYTICAL RESULTS

Sample ID	Rosemont Res.	Sample #	1
Date/Time Sampled	2019-12-30	8:50 AM	Matrix DW

Date/Time on Test 2019-12-30 4:30 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Silica st. Sampler	Sample #	2
Date/Time Sampled	2019-12-30	8:40 AM	Matrix DW

Date/Time on Test 2019-12-30 4:35 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Sampler @ 3rd and Davies	Sample #	3
Date/Time Sampled	2019-12-30	9:40 AM	Matrix DW

Date/Time on Test 2019-12-30 4:35 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Sampler @ Fell and 11th	Sample #	4
Date/Time Sampled	2019-12-30	10:30 AM	Matrix DW

Date/Time on Test 2019-12-30 4:40 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	Mtn. Station Reservoir - Raw	Sample #	5
Date/Time Sampled	2019-12-30	10:00 AM	Matrix RW

Date/Time on Test 2019-12-30 4:40 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	27	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1
Fecal (Thermotolerant) Coliforms	less than 1	CFU/100mL	1

ANALYTICAL RESULTS**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
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Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

References