EMERGENCY RESPONSE & CONTINGENCY PLAN 2021

Water System Name: Vanguard Secondary.

Emergency Contacts	Name and Title	Phone	Fax	E-mail
Water System - Primary Contact (person responsible for receiving call from lab and/or FHA)	Terry Walker	Office: 604-534-3294 Cell: 604-841-7299	604-534-0841	tewalker@sd35.bc.ca
Water System - Secondary Contact (Should primary contact be ill or on vacation etc.)	Brad Cairns	Office: 604-534-3294 Cell: 604-830-6367	604-534-0841	breairns@sd35.bc.ca
Water System Owner	Langley School district #35	Ph: 604-534-3294	604-534-0841	
Fraser Health Authority Contacts				
Environmental Health Officer	Barbara Haworth	604-870-7900	604-870-7901	barb.haworth@ fraserhealth.ca
Medical Health Officer	MHO Line 8-4:30 After Hours Line	604-587-3828or 1-877-342-6467 604-527-4806		
Fraser Health After Hours Contact (After 4:30 pm or on weekends)	Fraser Health On-Call Staff	604-527-4806		
Emergency Contacts				
Alternate Source of Water i.e. bottled water or bulk supply	Allied Water Supply	604-534-6085		
Plumbing Services	District Facilities	604-534-3294		
Equipment Services i.e. Treatment/pumps	Union Pumps	604-533-3727		
Electrical Services	District Facilities	604-534-3294		
B.C. Hydro		1-888-769-3766		
Other				

Signatur		Title:		
Name:	Rrad Cairns	Date:	FEB 1 9 2021	
	Manager, Mechanical Systems			

Sample Range Report

Fraser Health Authority

Facility Name: Date Range: Vanquard Sec Otter Elementary School WS Jan 1 2020 to Dec 31 2020

Operator

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
Class Room #5,				
3825 244 th St.				
	1-7-2020	L1	L1	
	1-21-2020 2-4-2020 9:15:00	L1 LT1	L1 LT1	
	2-4-2020 9:15:00 AM	LII	LII	
	2-18-2020 9:05:00 AM	LT1	LT1	
	3-3-2020 8:25:00 AM	LT1	LT1	
	3-16-2020 9:05:00 AM	LT1	LT1	
	4-6-2020 8:15:00 AM	LT1	LT1	
	4-21-2020 10:15:00 AM	LT1	LT1	
	5-5-2020 8:45:00 AM	LT1	LT1	
	5-26-2020 8:55:00 AM	LT1	LT1	
	6-3-2020 9:05:00 AM	QRWRT	QRWRT	
	6-16-2020 10:05:00 AM	LT1	LT1	
	7-7-2020 10:00:00 AM	LT1	LT1	
	7-28-2020 10:05:00 AM	LT1	LT1	
	8-11-2020 10:10:00 AM	LT1	LT1	
	8-25-2020 8:55:00 AM	LT1	LT1	
	9-8-2020 11:05:00 AM	LT1	LT1	
	9-23-2020 11:05:00 AM	LT1	LT1	
	10-7-2020 9:05:00 AM	LT1	LT1	
	10-19-2020 9:05:00 AM	REJCT DELAY3	REJCT DELAY3	
	10-27-2020 9:05:00	LT1	LT1	

	AM 11-17-2020 9:50:00	LT1	LT1	
	AM 11-24-2020 11:05:00	LT1	LT1	
	AM 12-1-2020 9:05:00 AM	LT1	LT1	
	12-15-2020 9:15:00 AM	LT1	<u>LT1</u>	
	Total Positive:	0	0	0
Staff Room, 3825				
244th St.	4 7 0000	1.4	1.4	
	1-7-2020	L1	L1	
	1-21-2020	L1	L1	
	2-4-2020 9:10:00	LT1	LT1	
	AM 2-18-2020 9:00:00	LT1	LT1	
	AM 3-3-2020 8:20:00 AM	LT1	LT1	
	3-16-2020 9:00:00 AM	LT1	LT1	
	4-6-2020 8:10:00 AM	LT1	LT1	
	4-21-2020 10:10:00 AM	LT1	LT1	
	5-5-2020 8:40:00 AM	LT1	LT1	
	5-26-2020 8:50:00 AM	LT1	LT1	
	6-3-2020 9:00:00 AM	QRWRT	QRWRT	
	6-16-2020 10:00:00 AM	LT1	LT1	
	7-7-2020 9:55:00 AM	LT1	LT1	
	7-28-2020 10:00:00 AM	LT1	LT1	
	8-11-2020 10:05:00 AM	LT1	LT1	
	8-25-2020 8:30:00 AM	LT1	LT1	
	9-8-2020 11:00:00 AM	LT1	LT1	
	9-23-2020 11:00:00 AM	LT1	LT1	
	10-7-2020 9:00:00 AM	LT1	LT1	
	10-19-2020 9:00:00 AM			
	10-27-2020 9:00:00 AM	LT1	LT1	
	11-17-2020 9:45:00 AM	LT1	LT1	

11-24-2020 11:00:00 AM	LT1	LT1	
12-1-2020 9:00:00 AM	LT1	LT1	
12-15-2020 9:10:00	LT1	<u>LT1</u>	
AM Total Positive:	0	0	0

Result Values: E - es	timated	L - less than	G - greater than	
Samples that contain total colifo	rm: 0		0.00% of total	
Samples that contain e. coli:	lo		0.00% of total	
Samples that contain fecal colifo	orm: 0		0.00% of total	
Number of consecutive samples contain total coliform:	that 0			
Number of samples that contain coliform in last 30 days:	total 0/0			
Total number of samples:	50			

Comments:

Environmental Health Officer Feb 11 2021

FOR FURTHER INFORMATION PLEASE CALL: Barb Haworth



Element #104, 19575-55 A Ave. Surrey, British Columbia V3S 8P8, Canada

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E: info.vancouver@element.com

W: element.com

Analytical Report

Bill To: School District #35

20260 - 64 Avenue

Langley, BC, Canada

V3A 4P7

Attn: Accounts Payable

Sampled By: Company:

Project ID:

Project Name:

Project Location:

Proj. Acct. code:

LSD: P.O.:

S00023

Lot ID: 1433137 Control Number:

Date Received: Jul 7, 2020 Jul 13, 2020 Date Reported:

2528593 Report Number:

Reference Number

Sample Date Sample Time

July 07, 2020 10:00

1433137-2

Sample Location

Sample Description

VanGuard SEC tary School / 8.8 °C

Drinking Water

Sample Matrix Guideline Guideline **Nominal Detection** Limit Comments Limit Units Result Analyte **Metals Extractable** <0.001 0.001 0.1 Below OG Extractable mg/L Aluminum 0.00004 0.00002 0.006 **Below MAC** Extractable mg/L Antimony **Below MAC** 0.010 0.0010 0.0001 Arsenic Extractable mg/L Below MAC mg/L 0.0090 0.0001 2.0 Extractable Barium Below MAC Extractable mg/L 0.004 0.002 5 Boron 0.00001 0.005 **Below MAC** Extractable mg/L < 0.00001 Cadmium 0.05 Below MAC 0.00013 0.00005 Chromium Extractable mg/L Below AO Extractable mg/L 0.016 0.0005 1 AO; 2 MAC Copper 0.005 **Below MAC** 0.00014 0.00001 Extractable mg/L Lead 0.05 Below MAC Extractable mg/L 0.0007 0.0002 Selenium 7.0 **Below MAC** 0.044 0.0001 Extractable mg/L Strontium 0.02 Below MAC 0.00001 0.00005 Uranium Extractable mg/L Vanadium Extractable mg/L 0.0028 0.00005 Below AO 0.0028 0.0005 5.0 Extractable Zinc mg/L Microbiological Analysis 0 per 100 mL Below MAC MPN/100 mL <1.0 1.0 **Total Coliforms Enzyme Substrate** Test 0 per 100 mL Below MAC Enzyme Substrate MPN/100 mL 1.0 Escherichia coli <1.0 Test **Physical and Aggregate Properties** <5 5 Colour units Colour True 0.1 Above OG 0.1 **Turbidity** NTU 0.14 **Routine Water** Exceeded pH - Holding Time Within Range at 25 °C 7.43 0.01 7.0-10.5 pH µS/cm at 25 °C 136 **Electrical Conductivity** 1 Calcium Extractable mg/L 11 0.01 0.004 0.3 Below AO Extractable mg/L < 0.004 Iron 6.5 0.02 Magnesium Extractable mg/L 0.003 0.001 0.02 AO; 0.12 Below AO Extractable mg/L Manganese MAC 1.1 0.04 Potassium Extractable mg/L 0.005 Extractable mg/L 12 Silicon 200 Below AO Extractable 5.1 0.1 Sodium mg/L as CaCO3 54 5 T-Alkalinity mg/L 250 Below AO 3.07 0.05 Chloride Dissolved mg/L Below MAC 0.05 0.01 1.5 Dissolved mg/L Fluoride **Below MAC** Nitrate - N Dissolved mg/L 1.00 0.01 10 mg/L < 0.01 0.01 1 Below MAC Nitrite - N Dissolved 0.1 500 Below AO Sulfate (SO4) Dissolved mg/L 5.8

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DRINKING WATER SYSTEM ANNUAL REPORT			
Reporting Period:	January 1 st to Decen	nber 31 st , 2020 (year)	
Water System Vanguard Sec	ondary (Otter)		
Water System Owner Langley School	ol District		
Primary Contact Name (Operator or Manager)	Brad Cairns		
Phone Number (Operator or Manager) 604-	830-6367		
E-mail (Operator or Manager) brcai	rns@sd35.bc.ca		
DESCRIBE YOUR WATER SUPPLY SYSTEM			
What is the Source(s) of Raw Water?			
□ Deep Well □ Shallow Well	☐ Surface Water	☐ Other	
If other, specify details:			
Does the Drinking Water System have Prin	mary Disinfection?	☐Yes	□No
☐ Chlorination ☑ Ultraviolet Light	☐ Ozone	☐ Other	
If other, specify details:			
Does the Drinking Water System have Sec	ondary Disinfection?	☐ Yes	⊠ No
☐ Chlorination ☐ Other			
If other, specify details:			
Does the Drinking Water System have Filt	ration?	X Yes	□No
Check all boxes that apply			
□ Cartridge Filter(s) □ Carbon Filter	Sand Filtration	Reverse Osmosis	☐ Other
If other, specify details:			
PUBLIC REPORTING			
Emergency Response & Contingency Plan	(ERCP)		
Is your ERCP up to Date?	✓ Yes	□No	
How do you Inform the System Users of th	ne ERCP?		
☐ Hand Delivered ☐ Bulletin Board	☐ Newspaper	Utility Bill Insert	
Other (specify details)			
Drinking Water System Annual Report			
How do you Inform the System Users of th	ne Annual Report?		
☐ Hand Delivered ☐ Bulletin Board	□ Newspaper	Utility Bill Insert	
☐ Other (specify details)			

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	with Operating ditions that have		on your Operating Pe	rmit (if you have con	nditions, these	will be stated	l on your permi
Are you in c	compliance with	the conditions	s listed on your Opera	iting Permit?	✓ Yes	□No	□ N/A
BACTERIOLOG	GICAL TESTING AND	DRINKING WATI	ER PROTECTION REGULAT	TION WATER QUAL	TY S TANDA	RDS	
How many	bacteriological	samples were o	collected during this r	eporting period?	?	50	
What is the	minimum requ	ired sampling f	frequency for this syst	:em? (#samples/	month)	1	
Additional s	sampling details	:					
Nas the mi	nimum required	l sampling freq	uency achieved?			□No	
Comments:	3						
Bacteriological summary attached to this report?						□No	
	ical summary a lo the users of t			Z res			
If no, how a	lo the users of t	he system view	the results?				
If no, how a WATER QUAI	lo the users of t	he system view	the results?		this syste	em meet st	andard?
WATER QUAI Parameter: Escherichia	lo the users of t	he system view or Potable Wat Standard:	the results?	Did			
WATER QUAI Parameter: Escherichia (for all sample Total Colifo (if only 1 samp	lo the users of t	OR POTABLE WAT Standard: No detectab	the results?	Did	Yes	em meet st	0
WATER QUAI Parameter: Escherichia (for all sample Total Colifo (if only 1 samp day period) Total Colifo	coli es) rm Bacteria ole collected in a 30 rm Bacteria	OR POTABLE WAT Standard: No detectab No more the coliform back	rthe results? TER tele Escherichia coli per 100	Did ml ⊠' per 100ml ⊠'	Yes	em meet st	0
WATER QUAI Parameter: Escherichia Ifor all sample Total Colifor If only 1 sample day period) Total Colifor If more than 2 30 day period)	coli es) rm Bacteria ble collected in a 30 rm Bacteria	No detectable No more that coliform back 10 total colimany of above D	the results? TER Tele Escherichia coli per 100 Tele total coliform bacteria per 100 of samples contain cteria, and No sample has form bacteria per 100ml	Did ml ⊠' per 100ml ⊠' total more than ⊠'	Yes Yes	em meet st	o o o
WATER QUAL Parameter: Escherichia (for all sample Total Colifor (if only 1 sample day period) Total Colifor (if more than 2 30 day period)	coli is) rm Bacteria ole collected in a 30 rm Bacteria 1 sample collected i	No detectable No more that coliform back 10 total colimany of above D	the results? TER Tele Escherichia coli per 100 Tele total coliform bacteria per 100 of samples contain cteria, and No sample has form bacteria per 100ml	Did ml ⊠' per 100ml ⊠' total more than ⊠'	Yes Yes Yes standards	em meet st	o o o
WATER QUAL Parameter: Escherichia (for all sample Total Colifor (if only 1 sample day period) Total Colifor (if more than 2 30 day period)	coli es) rm Bacteria ble collected in a 30 rm Bacteria 1 sample collected i 2 m did not meet elow; attach ad	No detectable No more that coliform bac 10 total colimany of above Diditional sheets	the results? TER Tole Escherichia coli per 100 Tole total coliform bacteria per 10% of samples contain cteria, and No sample has form bacteria per 100ml Trinking Water Protectif necessary.	Did ml 🖂 \ total more than 🔄 \ tion Regulation	Yes Yes Yes standards	em meet st	o o o
WATER QUAI Parameter: Escherichia (for all sample Total Colifor (if only 1 sample day period) Total Colifor (if more than 2 30 day period)	coli es) rm Bacteria ble collected in a 30 rm Bacteria 1 sample collected i 2 m did not meet elow; attach ad	No detectable No more that coliform bac 10 total colimany of above Diditional sheets	the results? TER Tole Escherichia coli per 100 Tole total coliform bacteria per 10% of samples contain cteria, and No sample has form bacteria per 100ml Trinking Water Protectif necessary.	Did ml 🖂 \ total more than 🔄 \ tion Regulation	Yes Yes Yes standards	em meet st	o o o
WATER QUAL Parameter: Escherichia (for all sample Total Colifor (if only 1 sample day period) Total Colifor (if more than 2 30 day period)	coli es) rm Bacteria ble collected in a 30 rm Bacteria 1 sample collected i 2 m did not meet elow; attach ad	No detectable No more that coliform bac 10 total colimany of above Diditional sheets	the results? TER Tole Escherichia coli per 100 Tole total coliform bacteria per 10% of samples contain cteria, and No sample has form bacteria per 100ml Trinking Water Protectif necessary.	Did ml 🖂 \ total more than 🔄 \ tion Regulation	Yes Yes Yes standards	em meet st	o o o

CHEMICAL SAN	IPLING COMPLETE	ED DURING THIS REF	PORTING PER	OD	
Was any che	mical sampling	conducted durin	g reporting	period? 🔀 Yes	□No
lf no, when w for this syste		emical samples o	conducted	If yes, did all water sample Canadian Drinking Water (
(date)	☐ Don't	Know New	ver .		□No
	•	t meet the Guide litional sheets if I	-	ınadian Drinking Water Qua	lity, record the results in
Parameter	Result	Corrective A	ction / Trea	atment / Comments	
Additional Te	STING				
Does the syst	em have analy	zers for continuc	ous monitor	ring? 🗌 Yes	⊠ No
If yes, check (all boxes that a	ıpply:			
☐ Chlorine	□Tu	ırbidity	☐ Other (details)	
Are the resul	ts available on	request?			
If any additionsheets if neces	_	sampling was coi	nducted, re	cord results in the table belo	w; attach additional
Additional Te	esting & Reason	n for Sampling	Correctiv	ve Action Taken	
WATER QUALIT	Y COMPLAINTS				
	ny water quali taste, odour, c	ty complaints in olour etc.)	this reporti	ng ☐ Yes	⊠ No
		alauu este eb eeld	itional shee	ets if necessary.	
If yes, comple	ete the table be	eiow; attach ada	itional shee	iso ij necessary.	
<i>If yes, comple</i> Date		ity Complaint		ective Action / Treatment	
				-	
				-	
				-	

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OPERATIONAL PR	OBLEMS							
Were there any operational problems during this reporting period? (e.g. insufficient water supply, malfunction of ☐ Yes ☐ No disinfection equipment, line breaks, elevated turbidity etc.).								
If yes, complete	If yes, complete the table below; attach additional sheets if necessary.							
Incident Date	Incident Date Type of Operational Problem Corrective Action Taken							
Major Upgrade	S/REPAIRS & EXPENSES							
	najor upgrades/re this reporting perio		najor c	osts	⊠ No			
If yes, complete	e the table below; at	tach additione	al shee	ets if necessary.				
Major Upgrade	s/Expenses	Details						
Improvements	required by DWO							
Additions/chan	ges to system							
Purchase or ins	tall new equipment							
Equipment repa	air or replacement							
Annual mainter	nance of system	Cleaned and	d disinf	ected the reservoir.				
Specialist repor	t							
Other								
FUTURE IMPROVE	MENTS							
Are there any p	olans for future impr	ovements?		☐ Yes	⊠ No			
If yes, complete the table below; attach additional sheets if necessary.								
Future Upgrade	Future Upgrades or Improvements				Estimated Date of Completion			
DATE COMPLETE	D: 18-Feb-2021			COMPLETED BY:	Brad Cairns			