EMERGENCY RESPONSE & CONTINGENCY PLAN 2023

Water System Name: Wix brown

Emergency Contacts	Name and Title	Phone	Fax	E-mail
Water System - Primary Contact (person responsible for receiving call from lab and/or FHA)	Ryan Smith	Office: 604-534-3294 Cell: 604-830-4326	604-534-0841	rsmith@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	·e:	Title:	
Name:	Brad Cairns	Date:	MAR 1 5 2023
	Manager, Mechanical Systems		

Sample Range Report

Fraser Health Authority

Facility Name: Date Range:

Wix Brown Elementary School WS Jan 1 2022 to Dec 31 2022

Operator

Brad Cairns 20260 64th Ave Langley, BC V3A 4P7

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
Kitchen, 23851 24t	<u>h</u>			
<u>Ave</u>	1-4-2022 10:50:00	LT1	LT1	
	AM 1-25-2022 10:10:00	LT1	LT1	
	AM 2-8-2022 10:10:00 AM	LT1	LT1	
	2-22-2022 10:20:00 AM	LT1	LT1	
	3-8-2022 9:15:00 AM	LT1	LT1	
	3-22-2022 10:10:00 AM	LT1	LT1	
	4-5-2022 9:40:00 AM	LT1	LT1	
	4-26-2022 9:20:00 AM	LT1	LT1	
	5-10-2022 9:10:00 AM	LT1	LT1	
	5-24-2022 10:10:00 AM	LT1	LT1	
	6-7-2022 10:10:00 AM	· LT1	LT1	
	6-22-2022 9:15:00 AM	LT1	LT1	
	7-6-2022 9:10:00 AM	LT1	LT1	
	7-19-2022 10:40:00 AM	LT1	LT1	
	8-3-2022 9:55:00 AM	LT1	LT1	
	8-16-2022 10:15:00 AM	LT1	LT1	
	9-6-2022 9:25:00 AM	LT1	LT1	
	9-20-2022 9:50:00 AM	LT1	LT1	
	10-4-2022 10:30:00 AM	LT1	LT1	
	10-18-2022 9:55:00 AM	LT1	LT1	
	11-8-2022 9:10:00 AM	LT1	LT1	
	11-22-2022 9:15:00 AM	LT1	LT1	

	12-5-2022 9:25:00 AM	LT1	LT1	
	12-19-2022 9:55:00 AM	QRWRT	<u>QRWRT</u>	
	Total Positive:	0	0	0
Mechanical Room, 23851 24th Ave	-			
23631 2411 AVE	1-4-2022 10:55:00 AM	LT1	LT1	
	1-25-2022 10:15:00 AM	LT1	LT1	
	2-8-2022 10:15:00 AM	LT1	LT1	
	2-22-2022 10:15:00 AM	LT1	LT1	
	3-8-2022 9:20:00 AM	LT1	LT1	
	3-22-2022 10:15:00	LT1	LT1	
	AM	L 1 1	···· 1	
	4-5-2022 9:45:00 AM	LT1	LT1	
	4-26-2022 9:25:00	LT1	LT1	
	AM			
	5-10-2022 9:15:00 AM	LT1	LT1	
	5-24-2022 10:15:00 AM	LT1	LT1	
	6-7-2022 10:15:00 AM	LT1	LT1	
	6-22-2022 9:10:00 AM	LT1	LT1	
	7-6-2022 9:15:00 AM	LT1	LT1	
	7-19-2022 10:45:00	LT1	LT1	
	AM			
	8-3-2022 10:00:00 AM	LT1	LT1	
	8-16-2022 10:20:00 AM	LT1	LT1	
	9-6-2022 9:30:00 AM	LT1	LT1	
	9-20-2022 9:55:00 AM	LT1	LT1	
	10-4-2022 10:40:00 AM	LT1	LT1	
	10-18-2022 10:00:00 AM	LT1	LT1	
	11-8-2022 9:15:00 AM	LT1	LT1	
	11-22-2022 9:20:00 AM	LT1	LT1	
	12-5-2022 9:30:00 AM	LT1	LT1	
	12-19-2022 10:00:00 AM	QRWRT	QRWRT	
	Total Positive:	0	0	0
	i otal i ositive.	J	U	v

AUDIT Wix Brown Elem School, 23851 24th Ave

	6-7-2022 11:30 AM	:00	<u>LT1</u>	<u>LT1</u>	
	Total Positive) <u>; </u>	0	0	0
Result Values:	t Values: E - estimated		L - less than	n G - greater than	
Samples that co	ntain total coliform:	0		0.00% c	f total
Samples that contain e coli:		lo lo		10.00% c	of total

Samples that contain total coliform:	0	0.00% of total
Samples that contain e. coli:	0	0.00% of total
Samples that contain fecal coliform:	0	0.00% of total
Number of consecutive samples that contain total coliform:	0	
Number of samples that contain total coliform in last 30 days:	0/0	
Total number of samples:	49	

Comments:

Environmental Health Officer Mar 16 2023

FOR FURTHER INFORMATION PLEASE CALL: Barb Haworth





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

T: +1 (604) 514-3322 F: +1 (604) 514-3323 E: info.vancouver@element.com W: www.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: 1585967

Control Number:

Date Received: Jul 19, 2022 Date Reported: Jul 25, 2022

Report Number: 2769495

Reference Number

Sample Date

1585967-3 July 19, 2022 10:45

Sample Time Sample Location

Sample Description

Wix Brown / 11.2 °C

Drinking Water Sample Matrix

		Sample Matrix	Drinking wate			
Analyte		Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	< 0.001	0.001	0.1 OG; 2.9 MAC	Below OG
Antimony	Extractable	mg/L	< 0.00002	0.00002	0.006	Below MAC
Arsenic	Extractable	mg/L	0.0013	0.0001	0.010	Below MAC
Barium	Extractable	mg/L	0.028	0.0001	2.0	Below MAC
Boron	Extractable	mg/L	0.077	0.002	5	Below MAC
Cadmium	Extractable	mg/L	< 0.00001	0.00001	0.007	Below MAC
Chromium	Extractable	mg/L	0.00006	0.00005	0.05	Below MAC
Copper	Extractable	mg/L	0.0009	0.0005	1 AO; 2 MAC	Below AO
Lead	Extractable	mg/L	0.00001	0.00001	0.005	Below MAC
Selenium	Extractable	mg/L	< 0.0002	0.0002	0.05	Below MAC
Strontium	Extractable	mg/L	0.099	0.0001	7.0	Below MAC
Uranium	Extractable	mg/L	0.00001	0.00001	0.02	Below MAC
Vanadium	Extractable	mg/L	0.00009	0.00005		
Zinc	Extractable	mg/Ľ	< 0.0005	0.0005	5.0	Below AO
Physical and Aggregate	Properties	-				
Colour	True	Colour units	<5	5		
Turbidity		NTU	2.55	0.1	0.1/0.3/1.0 OG	
Routine Water						
pH - Holding Time			Exceeded			
pH	at 25 °C		7.90	0.01	7.0-10.5	Within Range
Electrical Conductivity		μS/cm at 25 °C	298	1		
Calcium	Extractable	mg/L	20	0.01		
Iron	Extractable	mg/L	0.74	0.004	0.3	Above AO
Magnesium	Extractable	mg/L	10	0.02		
Manganese	Extractable	mg/L	0.25	0.001	0.02 AO; 0.12 MAC	Above MAC
Potassium	Extractable	mg/L	2.3	0.04		
Silicon	Extractable	mg/L	13	0.005		
Sodium	Extractable	mg/L	25	0.1	200	Below AO
T-Alkalinity	as CaCO3	mg/L	146	5		
Chloride	Dissolved	mg/L	1.25	0.05	250	Below AO
Fluoride	Dissolved	mg/L	0.07	0.01	1.5	Below MAC
Nitrate - N	Dissolved	mg/L	<0.01	0.01	10	Below MAC
Nitrite - N	Dissolved	mg/L	<0.01	0.01	1	Below MAC
Sulfate (SO4)	Dissolved	mg/L	3.1	0.1	500	Below AO
Hardness	as CaCO3 (extractable)	mg/L	90	1		
Total Dissolved Solids	Extractable	mg/L	185	1	500	Below AO



Element #104, 19575-55 A Ave. Surrey, British Columbia V3S 8P8, Canada T: +1 (604) 514-3322 F: +1 (604) 514-3323

E: info.vancouver@element.com

W: www.element.com

Analytical Report

Company:

Bill To: School District #35

20260 - 64 Avenue

Langley, BC, Canada

V3A 4P7

Accounts Payable Attn:

Sampled By:

S00023

1585967 Lot ID:

Control Number:

Date Received: Jul 19, 2022 Date Reported: Jul 25, 2022

Report Number: 2769495

Reference Number Sample Date

Sample Time

Sample Matrix

1585967-7

July 21, 2022

08:15

Sample Location

Project ID:

LSD:

P.O.:

Project Name:

Project Location:

Proj. Acct. code:

Sample Description

Wix Brown / 3.3°C **Drinking Water**

				Nominal Detection	Guideline Limit	Guideline Comments
Analyte		Units	Result	Limit	Limit	Comments
Microbiological Analy	ysis					
Total Coliforms	Enzyme Substrate	MPN/100 mL	<1.0	1.0	0 per 100 mL	Below MAC
	Test					
Escherichia coli	Enzyme Substrate	MPN/100 mL	<1.0	1.0	0 per 100 mL	Below MAC
	Test					

Approved by:

Max Hewitt

Operations Manager

DIVA	0-	1 0)F 4

DRINKING WATER SYSTEM ANNUAL REPORT

Reporting Period:	January 1 st to Decen	Reporting Period: January 1 st to December 31 st , 2022 (year)					
Water System Wix Brown Elei	mentary						
Water System Owner Langley Schoo	I District						
Primary Contact Name (Operator or Mana	ger) Brad cairns						
Phone Number (Operator or Manager)	604-830-6367						
E-mail (Operator or Manager)	brcairns@sd35.bc.ca						
DESCRIBE YOUR WATER SUPPLY SYSTEM							
What is the Source(s) of Raw Water?							
✓ Deep Well Shallow We	II Surface Water	Other					
If other, specify details:							
Does the Drinking Water System have	e Primary Disinfection?	Yes	□No				
☐ Chlorination ✓ Ultraviolet I	_ight	Other					
If other, specify details:							
Does the Drinking Water System have	e Secondary Disinfection?	Yes	√No				
Chlorination Other							
If other, specify details:							
Does the Drinking Water System have	e Filtration?	✓Yes	□No				
Check all boxes that apply		_					
✓ Cartridge Filter(s) Carbon Filter	er Sand Filtration	Reverse Osmosis	Other				
If other, specify details:							
PUBLIC REPORTING	/)						
Emergency Response & Contingency							
Is your ERCP up to Date?	√Yes	No					
How do you Inform the System Users			Zharataritar				
Hand Delivered Bulletin Boa	ard Newspaper	Utility Bill Insert	✓Website				
Other (specify details)							
Drinking Water System Annual Repor							
How do you Inform the System Users	-		Zhaz-t-t-				
Hand Delivered Bulletin Boa	ard Newspaper	Utility Bill Insert	✓ Website				
Other (specify details)							

Revised June 2014

CONTRIBUTE	WITH OPERATING P	ERMIT			
ist the cond	ditions of your Op	perating Permit (Contact the DWC) for a copy	if needed):	
Are you in c	ompliance with y	our Operating Permit?	√Ye	5	□No
BACTERIOLOG	SICAL TESTING AND [DRINKING WATER PROTECTION REGULA	TION WATER	Quality Stan	DARDS
How many l	bacteriological so	amples were collected during this	reporting p	eriod?	49
	minimum require ampling details:	ed sampling frequency for this sys	tem? (#sam	ples/month)	1
Was the minimum required sampling frequency achieved? ✓ Yes Comments:					□No
Bacteriological summary attached to this report?					
	ITY STANDARDS FO			Didabi	Church made de comment
		Standard:			stem meet standard?
	coli				
Escherichia		No detectable <i>Escherichia coli</i> per 10	0ml	√Yes	∐No
Escherichia (for all sample: Total Colifor (if only 1 samp	s)	No detectable <i>Escherichia coli</i> per 10 No detectable total coliform bacteria		√ Yes √ Yes	∐No
Escherichia (for all sample: Total Colifor (if only 1 samp day period) Total Colifor	s) rm Bacteria ble collected in a 30 rm Bacteria I sample collected in	No detectable total coliform bacteria	per 100ml n total		
Escherichia (for all sample: Total Colifor (if only 1 samp day period) Total Colifor (if more than 1 30 day period)	s) rm Bacteria ole collected in a 30 rm Bacteria I sample collected in a	No detectable total coliform bacteria No more than 10% of samples contai coliform bacteria, and No sample has	per 100ml n total s more than	✓Yes ✓Yes	□No □No
Escherichia (for all sample: Total Colifor (if only 1 samp day period) Total Colifor (if more than 1 30 day period) If the syster the table be	s) rm Bacteria ole collected in a 30 rm Bacteria I sample collected in m did not meet a	No detectable total coliform bacteria No more than 10% of samples contai coliform bacteria, and No sample has 10 total coliform bacteria per 100ml	per 100ml n total s more than	✓Yes ✓Yes	□No □No rds, record the results
Escherichia (for all sample: Total Colifor (if only 1 samp day period) Total Colifor (if more than 1 30 day period) If the syster	s) rm Bacteria ole collected in a 30 rm Bacteria I sample collected in m did not meet a	No detectable total coliform bacteria No more than 10% of samples contai coliform bacteria, and No sample has 10 total coliform bacteria per 100ml ny of above Drinking Water Prote	per 100ml n total s more than	✓Yes ✓Yes	□No □No rds, record the results

PA		

DRINKING WATER SYSTEM ANNUAL REPORT

Was any chen	nical sampling	conducted during reporting	period?			
lf no, when we for this systen		mical samples conducted	If yes, did all water samples meet the Guidelines for Canadian Drinking Water Quality? ☐ Yes			
(date) 07/19/20	22 Don't l	(now Never				
	-	meet the Guidelines for Ca tional sheets if necessary.	nadian Drinking Water Quality, record the results in			
Parameter	Result	Corrective Action / Treatment / Comments				
Iron	0.74	Cleaned and disinfected cistern filters replaced				
Maganese	0.25	Cleaned and disinfected cistern filters replaced				
ADDITIONAL TES						
		ers for continuous monitor	ring?			
Does the syste			ing? ☑Yes ☑No			
Does the syste	em have analyz					
Does the syste If yes, check a Chlorine	em have analyz	opply: bidity Other (
Does the syste If yes, check a Chlorine Are the result If any addition	em have analyz Il boxes that ap Tur s available on i nal testing or s	oply: bidity Other (request?				
Does the syste If yes, check a Chlorine Are the result If any addition sheets if nece	em have analyz Il boxes that ap Tur s available on i nal testing or s	oply: bidity	details)			
Does the syste If yes, check a Chlorine Are the result If any addition sheets if nece	em have analyz Il boxes that ap Tui s available on a nal testing or sessary.	oply: bidity	details) cord results in the table below; attach additional			
Does the syste If yes, check a Chlorine Are the result If any addition sheets if nece	em have analyz Il boxes that ap Tui s available on a nal testing or sessary.	oply: bidity	details) cord results in the table below; attach additional			
Does the syste If yes, check a Chlorine Are the result If any addition sheets if nece	em have analyz Il boxes that ap Tui s available on a nal testing or sessary.	oply: bidity	details) cord results in the table below; attach additional			
Does the syste If yes, check a Chlorine Are the result If any addition sheets if nece	em have analyz Il boxes that ap Tui s available on a nal testing or sessary.	oply: bidity	details) cord results in the table below; attach additional			
Does the syste If yes, check a Chlorine Are the result If any addition sheets if nece	em have analyz Il boxes that ap Tuit s available on a nal testing or se ssary. Sting & Reason	oply: bidity	details) cord results in the table below; attach additional			
Does the syste If yes, check a Chlorine Are the result If any addition sheets if nece. Additional Tes WATER QUALITY Were there as	em have analyzed liboxes that apullation in the savailable on the	poply: bidity	details) cord results in the table below; attach additional ve Action Taken			
Does the system of the system of the result. If any additions sheets if necessable the sheets of the	em have analyzed liboxes that apullation in the savailable on the savailable of	poply: bidity	details) cord results in the table below; attach additional ve Action Taken ing Yes			
Does the system of yes, check as the result. If any additions sheets if necessable water Quality Were there as period? (e.g., in period? (e.g., in period?)	em have analyzed by boxes that applications available on a second	poply: bidity Other (request? compling was conducted, re for Sampling Corrective y complaints in this reportion of the complete of the compl	details) cord results in the table below; attach additional ve Action Taken ing Yes			
Does the syste If yes, check a Chlorine Are the result If any additional sheets if neces Additional Tes WATER QUALIT Were there as period? (e.g. and period) (e.g. and period)	em have analyzed by boxes that applications available on a second	poply: bidity Other (request? compling was conducted, re for Sampling Corrective y complaints in this reportion of the complete of the compl	details) cord results in the table below; attach additional ve Action Taken ing Yes No ets if necessary.			

Revised June 2014

OPERATIONAL PR	OBLEMS						
Were there any operational problems during this reporting period? (e.g. insufficient water supply, malfunction of Section equipment, line breaks, elevated turbidity etc.).							
If yes, complete	e the table below; att	ach additional she	ets if necessary.				
Incident Date	Type of Operational	Problem Corr	ective Action Tak	en			
Major Upgrade	ES/REPAIRS & EXPENSES						
	y major upgrades/rep		ostsY	'es	√No		
	g this reporting period						
If yes, complete	e the table below; att	ach additional she	ets if necessary.				
Major Upgrade	es/Expenses	Details					
Improvements	required by DWO						
Additions/chan	iges to system						
Purchase or ins	stall new equipment						
Equipment rep	air or replacement						
Annual mainte	nnual maintenance of system Filters,UV lamps replaced. Cistern cleaned and disinfected softener add						
Specialist repo	rt						
Other							
			7				
FUTURE IMPROV	EMENTS						
Are there any	plans for future impro	ovements?	Z	'es	√No		
If yes, complet	e the table below; at	tach additional she	ets if necessary.				
Future Upgrades or Improvements				Estimated Date of Completion			
Click here to enter a date. DATE COMPLETED: March 15 2023			COMPLETED BY: Brad cairns				