



island health

DRINKING WATER SYSTEM ANNUAL REPORT

Reporting Period: January 1st to December 31st, (year) 2016

Water System FALSE BAY ELEMENTARY school

Water System Owner School DISTRICT 69

Primary Contact Name (Operator or Manager) CHRIS DEMPSTER

Phone Number (Operator or Manager) 250-248-2067

E-mail (Operator or Manager) cdempster@SD69.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 Primary Disinfection? Yes No

Chlorination Ultraviolet Light Ozone Other

If other, specify details: SAND FILTER / CARBON FILTER

Does the Drinking Water System have Secondary Disinfection? Yes No

Chlorination Other

If other, specify details: RO SYSTEM - CARBON FILTER - 5 MICRON CARTIDGE - UV

Does the Drinking Water System have Filtration? 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 the ERCP?

Hand Delivered Bulletin Board Newspaper Utility Bill Insert Website
 Other (specify details)

Drinking Water System Annual Report

How do you Inform the System Users of the Annual Report?

Hand Delivered Bulletin Board Newspaper Utility Bill Insert Website
 Other (specify details)

**COMPLIANCE WITH OPERATING PERMIT**

List the conditions of your Operating Permit (Contact the DWO for a copy if needed):

WATER - DWS

MONITORING, LAB REPORTS,

FACILITY # 1390174

EMERGENCY RESPONSE PLAN

Are you in compliance with your Operating Permit?

 Yes No**BACTERIOLOGICAL TESTING AND DRINKING WATER PROTECTION REGULATION WATER QUALITY STANDARDS**

How many bacteriological samples were collected during this reporting period?

9

What is the minimum required sampling frequency for this system? (#samples/month)

1

Additional sampling details:

Was the minimum required sampling frequency achieved?

 Yes No

Comments: DIFFICULTY IN OBTAINING SAMPLES (weather, FERRY,)

Bacteriological summary attached to this report?

 Yes No

If no, how do the users of the system view the results?

WATER QUALITY STANDARDS FOR POTABLE WATER

Parameter:	Standard:	Did this system meet standard?	
Escherichia coli (for all samples)	No detectable Escherichia coli per 100ml	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Total Coliform Bacteria (if only 1 sample collected in a 30 day period)	No detectable total coliform bacteria per 100ml	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Total Coliform Bacteria (if more than 1 sample collected in a 30 day period)	No more than 10% of samples contain total coliform bacteria, and No sample has more than 10 total coliform bacteria per 100ml	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

If the system did not meet any of above Drinking Water Protection Regulation standards, record the results in the table below; attach additional sheets if necessary.

Date	TC/100ml	E.coli/100ml	Reason	Corrective Action



island health

CHEMICAL SAMPLING COMPLETED DURING THIS REPORTING PERIOD

Was any chemical sampling conducted during reporting period? Yes No

If no, when were the last chemical samples conducted for this system? (date) 30 AUG 2012 Don't know

If yes, attach a list of the chemical results

If any water samples did not meet the Guidelines for Canadian Drinking Water Quality, record the results in the table below; attach additional sheets if necessary.

Next scheduled full chemical test (date)

Parameter	Result	Corrective Action / Treatment / Comments
TURBIDITY	8.6	Replace SEDIMENT FILTER / CHLORINATE FINISH WATER TANK.

ADDITIONAL TESTING

Does the system have analyzers for continuous monitoring? Yes No

If yes, check all boxes that apply:

Chlorine Turbidity Other (details)

Are the results available on request?

If any additional testing or sampling was conducted, record results in the table below; attach additional sheets if necessary.

Additional Testing & Reason for Sampling	Corrective Action Taken

WATER QUALITY COMPLAINTS

Were there any water quality complaints in this reporting period? (e.g. taste, odour, colour etc.) Yes No

If yes, complete the table below; attach additional sheets if necessary.

Date	Water Quality Complaint	Corrective Action / Treatment



OPERATIONAL PROBLEMS

Were there any operational problems during this reporting period? (e.g. insufficient water supply, malfunction of disinfection equipment, line breaks, elevated turbidity etc.) Yes No

If yes, complete the table below; attach additional sheets if necessary.

Incident Date	Type of Operational Problem	Corrective Action Taken
MAY/2016	LINE BREAK	REPAIR SUPPLY LINE
AUG/2016	INSUFFICIENT WATER	REPLACE RO FILTERS

MAJOR UPGRADES/REPAIRS & EXPENSES

Were there any major upgrades/repairs or any major costs incurred during this reporting period? Yes No

If yes, complete the table below; attach additional sheets if necessary.

Major Upgrades/Expenses	Details
Improvements required by DWO	
Additions/changes to system	
Purchase or install new equipment	REPLACE RO MEMBRANE FILTERS AUG/2016
Equipment repair or replacement	
Annual maintenance of system	REPLACE SEDIMENT FILTER / CHLORINATE FINISH WATER TANKS
Specialist report	
Other	

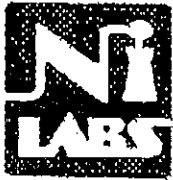
FUTURE IMPROVEMENTS

Are there any plans for future improvements? Yes No

If yes, complete the table below; attach additional sheets if necessary.

Future Upgrades or Improvements	Estimated Date of Completion

Click here to enter a date. DATE COMPLETED: MAY-24-2017	COMPLETED BY: <i>[Signature]</i>
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North Island Laboratories

• 2755 B Moray Avenue, Courtenay, B.C. V9N 8M9 Tel: (250) 338-7786 Fax: (250) 338-7553

Certificate of Analysis

Report To: School District #69
Rob Des Rosiers
P.O. Box 430
Parksville, BC
V9P 2G5

Lab Number: 97341
Date Reported: 30 Aug 12
Date Completed: 30 Aug 12
Date Received: 16 Aug 12 12:23

97341-01 False Bay

Well Water

Post Treatment

Sampled By: Gordon Asher

Sampling Date: 15 Aug 12 15:00

Test	Result	Units	Drinking Water Guidelines
Alkalinity	<20	mg/L (CaCO ₃)	
Total Ammonia (N)	<0.05	mg/L	
Chloride	0.8	mg/L	250 AO
Fluoride	<0.05	mg/L	1.5 MAC
Nitrate (N)	0.05	mg/L	10 MAC
Nitrite (N)	<0.05	mg/L	1 MAC
Sulphate	<0.5	mg/L	500 AO
Colour - True	<1	Colour Units	15
pH	6.9	pH Units	6.5-8.5
Conductivity	31.4	uS/cm	
Corrosivity	-2.48		
Total Dissolved Solids	18	mg/L dried at 180 °	500 AO
Total Organic Carbon	0.6	mg/L	
Total Organic Nitrogen	<0.08	mg/L	
T-Aluminium	<0.005	mg/L	0.1 Operational Std
T-Antimony	0.0002	mg/L	0.006 MAC
T-Arsenic	<0.0002	mg/L	0.010 MAC
T-Barium	<0.001	mg/L	1.0 MAC
T-Beryllium	<0.00004	mg/L	
T-Boron	0.015	mg/L	5 MAC
T-Bismuth	<0.0010	mg/L	
T-Cadmium	<0.00001	mg/L	0.005 MAC
T-Calcium	3.64	mg/L	
T-Chromium	<0.0004	mg/L	0.05 MAC
T-Cobalt	0.00015	mg/L	
T-Copper	0.263	mg/L	1.0 AO
T-Iron	<0.010	mg/L	0.3 AO

AO = Aesthetic Objective; MAC = Max. Allowable Concentration; IMAC = Interim MAC
> = Greater than; < = Less than

Results relate only to samples as submitted. This certificate must not be reproduced, except in its entirety, without written consent from the laboratory.

Canadian Drinking Water Guidelines as listed on Dec. 5th, 2005 and are subject to change.

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97341-01 False Bay

Well Water

Post Treatment

Sampled By: Gordon Asher

Sampling Date: 15 Aug 12 15:00

Test	Result	Units	Drinking Water Guidelines
T-Lead	0.0034	mg/L	0.010 MAC
T-Lithium	0.004	mg/L	
T-Magnesium	0.24	mg/L	
T-Manganese	<0.0050	mg/L	0.05 AO
T-Molybdenum	0.0001	mg/L	
T-Nickel	<0.001	mg/L	
T-Potassium	<0.10	mg/L	
T-Selenium	<0.0006	mg/L	0.01 MAC
T-Silicon	0.14	mg/L	
T-Silver	<0.00001	mg/L	
T-Sodium	1.19	mg/L	200 AO
T-Strontium	0.002	mg/L	
T-Thallium	<0.00001	mg/L	
T-Tin	0.0002	mg/L	
T-Titanium	<0.0010	mg/L	
T-Uranium	<0.0004	mg/L	
T-Vanadium	<0.0001	mg/L	
T-Zinc	0.016	mg/L	5.0 AO
Hardness (CaCO ₃)	10	mg/L	80-100
Turbidity	8.6	NTU's	5 AO

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97341-01

We suggest the following Health Canada website for further information regarding the latest drinking water quality guidelines to help you assess your results:

http://www.hc-sc.gc.ca/ewh-semt/pubs/water-eau/doc_sup-appui/sum_guide-res_recom/index_e.html

Test	Method	Analyst	Date
Alkalinity	Titration to 4.5, APHA 2320 B -modified	NISL	8/17/2012
Chloride	Ion Chromatography, EPA 300.1 -modified	NISL	8/17/2012
Colour - True	Spectrophotometer, APHA 2120 C -modified	NISL	8/20/2012
Conductivity	Conductivity @25C, APHA 2510 B -modified	NISL	8/17/2012
Corrosivity	Langelier Saturation Index, www.awwa.org	NISL	8/30/2012
Fluoride	Ion Chromatography, EPA 300.1 -modified	NISL	8/17/2012
Hardness (CaCO ₃)	Hardness by Calculation, APHA 2340 B -modified	NISL	8/30/2012
Nitrate (N)	Ion Chromatography, EPA 300.1 -modified	NISL	8/17/2012
Nitrite (N)	Ion Chromatography, EPA 300.1 -modified	NISL	8/17/2012
pH	Electrometric, APHA 4500 B -modified	NISL	8/17/2012
Sulphate	Ion Chromatography, EPA 300.1 -modified	NISL	8/17/2012
T-Aluminium	Exova Subcontract, ICP-MS, USEPA 200.8-modified	EXL	8/22/2012
T-Antimony	Exova Subcontract, ICP-MS, USEPA 200.8-modified	EXL	8/22/2012
T-Arsenic	Exova Subcontract, ICP-MS, USEPA 200.8-modified	EXL	8/22/2012
T-Barium	Exova Subcontract, ICP-MS, USEPA 200.8-modified	EXL	8/22/2012
T-Beryllium	Exova Subcontract, ICP-MS, USEPA 200.8-modified	EXL	8/22/2012
T-Bismuth	Exova Subcontract, ICP-MS, USEPA 200.8-modified	EXL	8/22/2012
T-Boron	Exova Subcontract, ICP-MS, USEPA 200.8-modified	EXL	8/22/2012
T-Cadmium	Exova Subcontract, ICP-MS, USEPA 200.8-modified	EXL	8/22/2012
T-Calcium	Exova Subcontract, ICP, APHA 3120B -modified	EXL	8/22/2012
T-Chromium	Exova Subcontract, ICP-MS, USEPA 200.8-modified	EXL	8/22/2012
T-Cobalt	Exova Subcontract, ICP-MS, USEPA 200.8-modified	EXL	8/22/2012
T-Copper	Exova Subcontract, ICP-MS, USEPA 200.8-modified	EXL	8/22/2012
T-Iron	Exova Subcontract, ICP, APHA 3120B -modified	EXL	8/22/2012
T-Lead	Exova Subcontract, ICP-MS, USEPA 200.8-modified	EXL	8/22/2012
T-Lithium	Exova Subcontract, ICP-MS, USEPA 200.8-modified	EXL	8/22/2012
T-Magnesium	Exova Subcontract, ICP, APHA 3120B -modified	EXL	8/22/2012
T-Manganese	Exova Subcontract, ICP, APHA 3120B -modified	EXL	8/22/2012
T-Molybdenum	Exova Subcontract, ICP-MS, USEPA 200.8-modified	EXL	8/22/2012
T-Nickel	Exova Subcontract, ICP-MS, USEPA 200.8-modified	EXL	8/22/2012
T-Potassium	Exova Subcontract, ICP, APHA 3120B -modified	EXL	8/22/2012
T-Selenium	Exova Subcontract, ICP-MS, USEPA 200.8-modified	EXL	8/22/2012
T-Silicon	Exova Subcontract, ICP, APHA 3120B -modified	EXL	8/22/2012

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T-Silver	Exova Subcontract, ICP-MS, USEPA 200.8-modified	EXL	8/22/2012
T-Sodium	Exova Subcontract, ICP, APHA 3120B - modified	EXL	8/22/2012
T-Strontium	Exova Subcontract, ICP-MS, USEPA 200.8-modified	EXL	8/22/2012
T-Thallium	Exova Subcontract, ICP-MS, USEPA 200.8-modified	EXL	8/22/2012
T-Tin	Exova Subcontract, ICP-MS, USEPA 200.8-modified	EXL	8/22/2012
T-Titanium	Exova Subcontract, ICP, APHA 3120B - modified	EXL	8/22/2012
T-Uranium	Exova Subcontract, ICP-MS, USEPA 200.8-modified	EXL	8/22/2012
T-Vanadium	Exova Subcontract, ICP, APHA 3120B - modified	EXL	8/22/2012
T-Zinc	Exova Subcontract, ICP-MS, USEPA 200.8-modified	EXL	8/22/2012
Total Ammonia (N)	Exova Subcontract, APHA 4500-NH3 C -modified	EXL	8/27/2012
Total Dissolved Solids	Exova Subcontract, dried @180C, APHA 2540C-modified	EXL	8/27/2012
Total Organic Carbon	Exova Subcontract, Ch.34 SSSA BookSeries5-modified	EXL	8/23/2012
Total Organic Nitrogen	Exova Subcontract, Ch.37 SSSA BookSeries5-modified	EXL	8/23/2012
Turbidity	Nephelometric, APHA 2130 B -modified	NISL	8/17/2012

Approved By:

Catherine Black, Owner/Operator

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Water Sample Range Report
Island Health

Facility Name: FALSE BAY ELEMENTARY SCHOOL
 Facility Type: DWS
 Date Range: Jan 1 2016 to May 23 2017
 Date Created: May 23 2017

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
<u>Weldon Road, Lasqueti Island BC, School Office @ False Bay Elementary School, Lasqueti Island, Dist. site, Monthly</u>	18-Jan-2016	L1	L1	
	22-Feb-2016	L1	L1	
	07-Mar-2016	L1	L1	
	18-Apr-2016	L1	L1	
	06-Jun-2016	L1	L1	
	11-Jul-2016	L1	L1	
	22-Aug-2016	L1	L1	
	26-Sep-2016	L1	L1	
	21-Nov-2016	A		
	28-Nov-2016	L1	L1	
	12-Dec-2016	L1	L1	
	23-Jan-2017	L1	L1	
	20-Feb-2017	L1	L1	
	27-Mar-2017	L1	L1	
	24-Apr-2017	5	L1	
	01-May-2017	<u>L1</u>	<u>L1</u>	
	Total Positive:	1	0	0
<u>Weldon Road, Lasqueti Island BC, False Bay Elem. School, KITCHEN, Lasqueti Island (NRS), Dist. site, No Regular Sampling</u>	11-Jul-2016	<u>L1</u>	<u>L1</u>	
	Total Positive:	0	0	0

Result Values: E - estimated L - less than G - greater than

Interpreting Sample Reports

In VIHA, the results of drinking water sampling are reported using the following coding system:
 L1 Less than 1 (no detectable bacteria) - Meaning: No bacteria present
 OG Overgrown - Meaning: Too many background bacteria to give an accurate count
 EST Estimated Count

Water System Inspection Report

Facility Info for FALSE BAY ELEMENTARY SCHOOL			
Address PO BOX 430 Weldon Road	Municipality Lasqueti Island	Facility Officer Thomson, Elizabeth	Facility Type DWS
Owner School District 69	Manager Mr. Rob Desroglers-Lasqueti Isl.	Facility # 1340174	Facility Phone # (250) 333-8813
Facility Office Parksville Office	Months Open 12		

Inspection Information			
Inspection Officer Thomson, Elizabeth <input checked="" type="checkbox"/>	Inspection Type Routine <input checked="" type="checkbox"/>	Inspection Date 07-May-2015 <input checked="" type="checkbox"/>	

Observed Violations	CRITICAL COUNT	NON-CRITICAL COUNT
319 - Inadequate Chemical Analysis Data Observation: Correction: Retest finished water quality turbidity. Chemical analysis received May 12/15 from August 15/12. Results show turbidity equal to 8.6 NTU's.	0	2
323 - Other (Specify) Observation: Correction: Look into when sand/carbon/reminerzalization filter medias are to be charged.	0	0

Corrected Violations
No corrections entered

Inspection Summary			
Hazard Rating Low <input checked="" type="checkbox"/>	Time Spent 1 Hours <input checked="" type="checkbox"/>	Follow-Up Inspection Required No <input checked="" type="checkbox"/>	Follow-Up Date

Comments/Attachments
Review and update Emergency Response Plan. Ensure 2014 Annual Report is completed and available to users by the end of June 2015. Look into which outside taps are potable/non-potable. In general water system is well operated. Maintenance logs posted in locked equipment rooms. Monthly bacteriological samples are satisfactory. Ministry of Health permit to be update to Island Heal permit, complete application to ensure information is up-to-date.