

SURFSIDE

Water Local Service Area

Annual Report 2008





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1. Introduction

The following annual report describes the Surfside Water Local Service Area and summarizes the water quality and production data from 2008. This report also includes a summary of inquiries and complaints, completed and proposed maintenance activities, the Emergency Response Plan, and the Cross Connection Control Program.

This report is to be submitted to the Vancouver Island Health Authority by the Spring of 2009.

2. Surfside Water System

The Surfside Water Service Area was established in 1986 and comprises an area northwest of Qualicum Beach on Surfside Drive and part of McFeely Drive. The water source for the Surfside Water Service Area comes from two groundwater wells located nearby. The water source is not chlorinated and is not stored in a reservoir, but is pumped into the system via two pressure tanks. A map of the Surfside Water System is provided in Appendix A for reference.

2.1 Groundwater Wells

Two groundwater production wells are present in the well field at 3547 West Island Highway, north of Qualicum Beach, B.C.

Well / Name	Well Depth	Wellhead Protection	Treated/Untreated with Chlorine
#1	9.4 m	Yes	Untreated
#2	9.8 m	Yes	Untreated

An emergency back-up chlorination station is present inside the pumphouse, should it be required.

2.2 Reservoirs

There is no reservoir in the Surfside Water System. Water supply is pumped into the system via a dual pressure tank arrangement.

2.3 Distribution System

The water distribution system in Surfside is largely comprised of 100mm and 150mm asbestos-concrete watermains, and 200mm PVC watermains. Flushouts are present, but there are no fire hydrants on the system.





3. Water Sampling and Testing Program

Water sampling and testing is carried out weekly in the distribution system. The following table includes a summary of all testing:

Timing	Location	Tests
Weekly	RDN (in-house) Laboratory	Total coliforms, E.Coli Temperature, pH, Conductivity Chlorine residual, Salinity Total Dissolved Solids Iron, Manganese
Weekly (Health Dept. Requirement)	North Island Labs	Total, Fecal coliforms
Monthly	North Island Labs	Chloride
Quarterly	North Island Labs	Sodium, Chloride, Conductivity Total Dissolved Solids
Annual Source Water Testing	North Island Labs	Complete potability testing of each well
Annual System Water Testing	North Island Labs	Complete potability testing of distribution system

4. Water Quality - Source Water and Distribution System

Up-to-date water quality reports and lab data are posted monthly on the RDN website at www.rdn.bc.ca in the WaterSmart section, under "Communities". Tables of water quality testing results for both the source water and distribution system are provided at the end of this report under Appendix B.

5. Water Quality Inquiries and Complaints

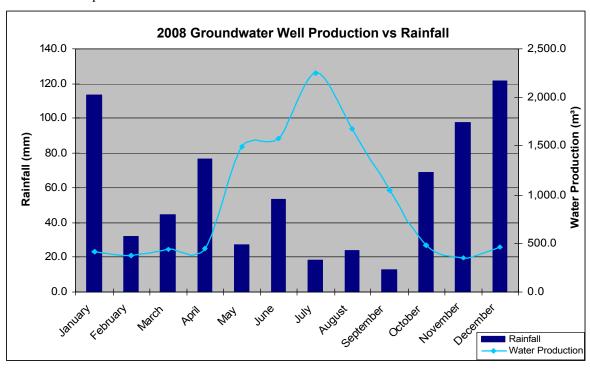
Very few complaints and inquiries were received from the Surfside water service area, and were typically related to interruption of supply (power outages).



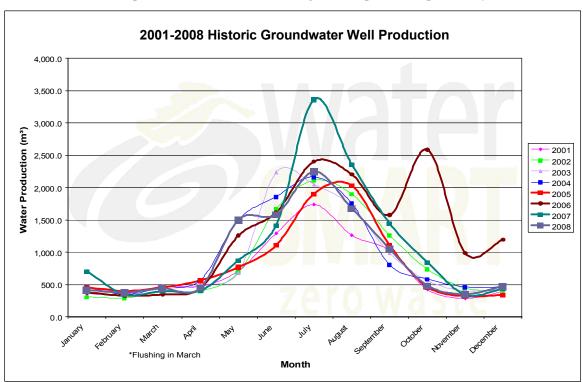


6. Groundwater Production and Consumption

The 2008 monthly groundwater production for Surfside is shown in the chart below. There are 38 water service connections in Surfside. Groundwater production has been charted against rainfall data from the City of Parksville website to show the correlation between rainfall and water consumption.



The monthly groundwater production for Surfside for the past 8 years is shown in the chart below. Groundwater production in 2008 was average in comparison to previous years.





Consumption

In the Fall/Winter of 2008, the average usage per home in Surfside was 0.53 cubic metres per day (117 imperial gallons). In the summer, the average water usage was 1.42 cubic metres per day (312 imperial gallons). Based on these figures, the annual consumption per capita is estimated to be 354 L/day. This consumption is 18.6% more than the RDN system average of 298.4 L/day/capita for 2008.

7. Maintenance Program

Regular maintenance and inspections are completed around the wellhead areas to reduce or eliminate the risk of contamination and system failure. Watermains are flushed once annually; in the Spring. There are no fire hydrants in this water system due to insufficient supply and capacity for fire flows.

8. Water System Projects

8.1 2008 Completed Studies Projects

- Replaced all facility signs.
- Began keyless door entry installation (card lock) at the Water Services field office, and all pumphouse sites.
- Re-keyed all gates and points of entry.
- Established electrical connections for the mobile generator at key sites.
- Completed annual watermain flushing.
- Completed a comprehensive water conservation program (**Team WaterSmart**) from May to October.
- Updated and improved the RDN WaterSmart website.
- Updated the Emergency Response Plan.
- Expanded the Operating Procedures binder.
- Completed the SCADA (Supervisory Control and Data Acquisition) Study.
- Completed the Innovative Water Supply and Re-Use study.
- Completed the *Action for Water* referendum process.
- Achieved Backflow Prevention Tester's Certification for 3 Operations staff.
- Created the Auto E-Message notification sign-up on the RDN website.

8.2 2009 Proposed Projects & Upgrades

- Install a stand-alone water sampling station.
- Install a permanent stand-by generator.
- Establish the Drinking Water Protection Advisory Committee.
- Review the SCADA report and options for implementation.
- Purchase well sequencing controllers.
- Complete the keyless door entry installations at all field sites.
- Commence the 2009 **Team WaterSmart** education program.
- Develop a rebate / incentive program.
- Develop the *Well Aware* well safety program.

8.3 2009 Proposed Studies

• Complete the well re-development study.





9. Emergency Response Plan

The Emergency Response Plan (ERP) was reviewed and updated in 2008. A copy of the ERP is attached in Appendix C.

10. Cross Connection Control

A formalized Cross Connection Control Program was initiated in 2007. Cross connection controls in-place include dual check valves at each service connection, fire hydrant use permits, and water supply bylaws noting discontinued service if a threat to the water supply is perceived by staff.

In 2008, a review and comparison of successful cross-connection control programs in other small water systems nearby was undertaken. A database of commercial customers was set-up in order to keep track of the maintenance history of testable backflow prevention assemblies at each site. Three RDN Operations staff achieved Backflow Prevention Tester's certification.

The program in 2009 will include:

- A survey of existing and potential cross-connections,
- An audit of RDN-owned facilities in each water service area,
- The preparation of a draft bylaw to allow enforcement of the Cross Connection Control Program.

11. Closing

An annual report for the year 2009 will be prepared and submitted to the Vancouver Island Health Authority in the Spring of 2010. Annual reports are also available on our website at www.rdn.bc.ca in the WaterSmart section, under "Communities".





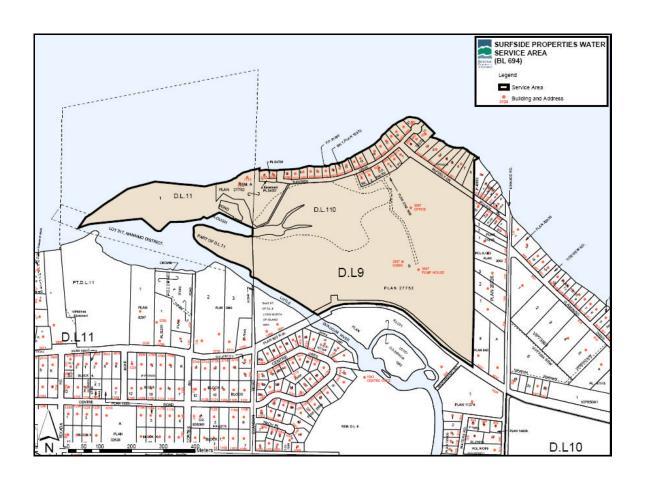
APPENIDX A

MAP OF SURFSIDE WATER LOCAL SERVICE AREA





SURFSIDE WATER LOCAL SERVICE AREA







APPENDIX B

WATER QUALITY TESTING RESULTS





Distribution Potability Test Results - Surfside



(Treated Drinking Water)

Date

												Date		
Test	Wat	er Qualit	y Guideli	nes								May 17	May 22	May 26
	Units	CDWG	ВСА	WQG	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Color	CU	15	=15</td <td>AO</td> <td></td> <td>15</td> <td>3</td> <td>2</td> <td>2</td> <td>5</td> <td><5</td> <td><5</td> <td>8</td> <td><5</td>	AO		15	3	2	2	5	<5	<5	8	<5
Conductivity	uS		700	MAC		291	137	128	175	159	163.1	148.3	163.7	151
TDS	mg/L	500	=500</td <td>AO</td> <td></td> <td>211</td> <td>87</td> <td>53</td> <td>53</td> <td>93</td> <td>53</td> <td>93</td> <td>86</td> <td>104</td>	AO		211	87	53	53	93	53	93	86	104
Hardness (CaCO3)	mg/L	80-100	=500</td <td>AO</td> <td></td> <td>88</td> <td>55.3</td> <td>55.2</td> <td>58.4</td> <td>64</td> <td>68</td> <td>58</td> <td>73</td> <td>53</td>	AO		88	55.3	55.2	58.4	64	68	58	73	53
рН	pH units	6.5-8.5	6.5-8.5	AO		7.35	6.8	6.39	6.8	6.8	6.7	6.8	6.7	6.96
Turbidity	NTU's	5	1	MAC		1.1	<.05	0.43	0.06	0.5	<0.5	<0.5	<0.5	<0.5
Alkalinity	mg/L					151	47	47	23	53	59	53	53	49
Chloride	mg/L	250	=250</td <td>AO</td> <td></td> <td>12.5</td> <td>7.3</td> <td>6.41</td> <td>7.58</td> <td>7.9</td> <td>9.3</td> <td>6.8</td> <td>10.5</td> <td>8.5</td>	AO		12.5	7.3	6.41	7.58	7.9	9.3	6.8	10.5	8.5
Fluoride	mg/L	1.5	1.5	MAC		0.12	<.04	0.07	<0.01	<1	<1.0	<0.1	<1.0	<1.0
Sulfate	mg/L	500	=500</td <td>AO</td> <td></td> <td>0.5</td> <td>3.97</td> <td>4.08</td> <td>4.86</td> <td>17.4</td> <td>6.4</td> <td>7.3</td> <td>8.1</td> <td>6.1</td>	AO		0.5	3.97	4.08	4.86	17.4	6.4	7.3	8.1	6.1
Nitrate	mg/L	10	10	MAC		0.33	0.459	0.46	0.52	0.6	0.6	0.54	0.4	0.6
Nitrite	mg/L	1				0.068	<.002	<.006	<0.01	<0.1	<0.1	<0.01	<0.1	<0.1
T-Aluminum	mg/L		0.2	MAC			0.031	<.009	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05
T-Antimony	mg/L		0.006	MAC			<.006	<.006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.001
T-Arsenic	mg/L	0.025	0.025	IMAC		0.001	<.01	<.01	<0.0002	<0.0002	0.0002	<0.0002	<0.0004	<0.001
T-Barium	mg/L	1.0	1	MAC		0.005	0.0448	0.0004	0.002	0.002	0.002	0.002	< 0.002	<0.005
T-Boron	mg/L	5.0	5	MAC		0.1	0.021	0.02	0.022	0.02	0.022	0.016	0.022	< 0.02
T-Cadmium	mg/L	0.005					<.0006	<.0006	<0.00001	<0.00001	<0.00001	<0.00001	<0.00002	<0.0003
T-Calcium	mg/L						18	16.7	18.8	21	21.7	18.9	23.5	17.1
T-Chromium	mg/L	0.05	0.05	MAC			<.0009	<.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.003
T-Copper	mg/L	1.0	=1</td <td>MAC</td> <td></td> <td></td> <td>0.016</td> <td>0.014</td> <td>0.013</td> <td>0.014</td> <td>0.013</td> <td>0.011</td> <td>0.01</td> <td>0.02</td>	MAC			0.016	0.014	0.013	0.014	0.013	0.011	0.01	0.02
T-Iron	mg/L	0.3	=0.3</td <td>AO</td> <td></td> <td>0.17</td> <td>0.031</td> <td>0.109</td> <td><0.1</td> <td><.01</td> <td><0.1</td> <td><0.1</td> <td><0.2</td> <td>0.06</td>	AO		0.17	0.031	0.109	<0.1	<.01	<0.1	<0.1	<0.2	0.06
T-Lead	mg/L	0.01	0.01	MAC			<.002	0.003	0.0003	0.0002	0.0003	0.0002	0.0004	<0.0005
T-Magnesium	mg/L		=700</td <td>AO</td> <td></td> <td>9.24</td> <td>2.53</td> <td>3.29</td> <td>2.8</td> <td>3</td> <td>3.4</td> <td>2.7</td> <td>3.4</td> <td>2.6</td>	AO		9.24	2.53	3.29	2.8	3	3.4	2.7	3.4	2.6
T-Manganese	mg/L	0.05	=0.05</td <td>AO</td> <td></td> <td>0.11</td> <td>0.0006</td> <td>0.0018</td> <td><0.005</td> <td><0.005</td> <td><0.005</td> <td><0.005</td> <td><0.005</td> <td>0.002</td>	AO		0.11	0.0006	0.0018	<0.005	<0.005	<0.005	<0.005	<0.005	0.002
T-Mercury	mg/L	0.001	0.001	MAC			<.0001	<.0001	<0.0002	<0.0002	<0.0002	<0.0001	<0.02	<0.01
T-Potassium	mg/L						<.4	<.4	<0.4	<0.4	<0.4	<0.4	<0.8	0.3
T-Selium	mg/L	0.01	0.01	MAC			0.007	<.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.003
T-Sodium	mg/L	200	=200</td <td>AO</td> <td></td> <td></td> <td>3.6</td> <td>4.4</td> <td>4.4</td> <td>4.5</td> <td>5.3</td> <td>5.5</td> <td>6.6</td> <td>6.5</td>	AO			3.6	4.4	4.4	4.5	5.3	5.5	6.6	6.5
T-Uranium	mg/L	0.1	0.1	MAC			<.06	<.02	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.002
T-Zinc	mg/L	5	<5	AO		0.009	0.009	0.0211	0.004	0.003	0.003	0.004	0.027	<0.005
Total Coliform	cfu/100ml	<1	<1	cfu/100ml		<1	<1	n/a	n/a	<1	<1	<1	<1	<1.0
Fecal Coliform	cfu/100ml	<1	<1	cfu/100ml		<1	<1	n/a	n/a	<1	<1	<1	<1	
E.coli	cfu/100ml	<1	<1	cfu/100ml								<1	<1	<1.0
Tannins & Lignins						n/a	n/a	<.1	n/a	n/a	n/a	n/a	n/a	n/a
Trihalomethanes	mg/l	0.1		MAC		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

BCAWQG - BC approved water quality guidelines

MAC - maximum acceptable concentrations

IMAC - interim maximum acceptable concentrations

AO - aesthetic objective

Red font indicates non-compliance.



Surfside Well #1 Water Analysis Results Canadian Drinking Water Guidelines Package



Red font indicates non-compliance with Canadian Drinking Water Guidelines

MAC=Maximum Acceptable Concentration.

IMAC= Interim Maximum Acceptable Concentration.

AO= Asthetic Objective.

Parameter	Units	CDWG	ВСА	WQG	2002	2003	2004	2005	Oct 24 2006	Oct 22 2007	Oct 8 2008
Color	CU	15	=15</th <th>AO</th> <th>2</th> <th><5</th> <th><5</th> <th><5</th> <th><5</th> <th>5</th> <th><5</th>	AO	2	<5	<5	<5	<5	5	<5
Conductivity	μS		700	MAC	150	190.9	309	168.8	381	148.2	198.5
Total Dissolved Solids	mg/L	500	=500</td <td>AO</td> <td>53</td> <td>100</td> <td>170</td> <td>122</td> <td>220</td> <td>96</td> <td>154</td>	AO	53	100	170	122	220	96	154
Hardness (CaCO3)	mg/L	80-100	=500</td <td>AO</td> <td>53.1</td> <td>77</td> <td>120</td> <td>68</td> <td>130</td> <td>56</td> <td>82</td>	AO	53.1	77	120	68	130	56	82
pH	pH units	6.5-8.5	6.5-8.5	AO	6.69	6.75	6.7	7.1	6.7	6.83	6.7
Turbidity	NTU's	5	1	MAC	< 0.05	0.43	<0.5	0.7	<0.5	<0.5	<0.5
Alkalinity	mg/L				46	51	45	50	43	50	50
Chloride	mg/L	250	=250</td <td>AO</td> <td>7.06</td> <td>20.9</td> <td>66.3</td> <td>14.9</td> <td>72.4</td> <td>7.8</td> <td>30.9</td>	AO	7.06	20.9	66.3	14.9	72.4	7.8	30.9
Fluoride	mg/L	1.5	1.5	MAC	0.05	<0.6	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfate	mg/L	500	=500</td <td>AO</td> <td>4.21</td> <td>7.7</td> <td>9.2</td> <td>6.4</td> <td>10.8</td> <td>8.3</td> <td>7.6</td>	AO	4.21	7.7	9.2	6.4	10.8	8.3	7.6
Nitrate (N)	mg/L	10	10	MAC	0.35	0.5	0.5	0.5	0.4	0.4	0.4
Nitrite (N)	mg/L	1			< 0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
T-Aluminum	mg/L		0.2	MAC	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.006
T-Antimony	mg/L		0.006	MAC	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0002	< 0.0002	< 0.0002
T-Arsenic	mg/L	0.025	0.025	IMAC	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
T- Barium	mg/L	1.0	1	MAC	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
T-Boron	mg/L	5.0	5	MAC	0.014	0.017	0.021	0.018	0.019	0.018	0.017
T-Cadmium	mg/L	0.005			< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
T-Calcium	mg/L				16	23.2	34.7	20.7	39.5	17.1	24.7
T-Chromium	mg/L	0.05	0.05	MAC	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0004
T-Copper	mg/L	1.0	=1</td <td>MAC</td> <td>0.007</td> <td>0.006</td> <td>0.007</td> <td>0.011</td> <td>0.004</td> <td>0.007</td> <td>0.016</td>	MAC	0.007	0.006	0.007	0.011	0.004	0.007	0.016
T-Iron	mg/L	0.3	=0.3</td <td>AO</td> <td><0.1</td> <td><0.1</td> <td><0.1</td> <td><0.1</td> <td><0.1</td> <td><0.1</td> <td>0.08</td>	AO	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.08
T-Lead	mg/L	0.01	0.01	MAC	0.0007	0.0006	0.0004	0.0004	0.0003	0.0003	0.0007
T-Magnesium	mg/L		=700</td <td>AO</td> <td>3.2</td> <td>4.7</td> <td>6.8</td> <td>3.9</td> <td>7.5</td> <td>3.3</td> <td>5.01</td>	AO	3.2	4.7	6.8	3.9	7.5	3.3	5.01
T-Manganese	mg/L	0.05	=0.05</td <td>AO</td> <td>< 0.005</td> <td>< 0.005</td> <td>< 0.005</td> <td>< 0.005</td> <td>< 0.005</td> <td>< 0.005</td> <td>0.0007</td>	AO	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0007
T-Mercury	mg/L	0.001	0.001	MAC	< 0.0002	< 0.0002	< 0.0002	< 0.0001	< 0.0001	<0.0001	<0.01
T-Potassium	mg/L				<0.4	0.4	0.6	0.5	0.5	<0.4	0.4
T-Selenium	mg/L	0.01	0.01	MAC	< 0.0002	< 0.0002	0.0003	< 0.0002	< 0.0002	0.0003	<0.0006
T-Sodium	mg/L	200	=200</td <td>AO</td> <td>3.8</td> <td>4.9</td> <td>8.1</td> <td>6.3</td> <td>12.9</td> <td>5.7</td> <td>8.35</td>	AO	3.8	4.9	8.1	6.3	12.9	5.7	8.35
T-Uranium	mg/L	0.1	0.1	MAC	<0.0005	<0.0005	<0.0005	<0.0005	< 0.0005	<0.0005	<0.0004
T-Zinc	mg/L	5	<5	AO	0.037	0.012	0.012	0.005	0.007	0.004	0.009
Total Coliform	cfu/100ml	<1	<1	cfu/100ml			<1	*16	*1	<1	*12.4
Fecal Coliform	cfu/100ml	<1	<1	cfu/100ml			<1	<1	<1	<1	<1
E.coli	cfu/100ml	<1	<1	cfu/100ml					<1	<1	<1

Note: Total coliforms can be an indicator of adverse water quality if the result in the re-sample is confirmed positive. (United States Environmental Protection Agency (EPA), 2008) RDN Water samples are always tested for Fecal coliform bacteria at the same time as Total coliforms to rule out the presence of harmful pathogens.

*Resampled and had <1 for all Coliforms



Surfside Well #2 Water Analysis Results Canadian Drinking Water Guidelines Package



Red font indicates non-compliance with Canadian Drinking Water Guidelines

MAC=Maximum Acceptable Concentration.

IMAC= Interim Maximum Acceptable Concentration.

AO= Asthetic Objective.

Parameter	Units	CDWG	ВСА	WQG	2002	2003	2004	2005	Oct 24 2006	Oct 22 2007	Oct 8 2008
Color	CU	15	=15</th <th>AO</th> <th>1</th> <th><5</th> <th>70</th> <th>5</th> <th><5</th> <th>10</th> <th><5</th>	AO	1	<5	70	5	<5	10	<5
Conductivity	μS		700	MAC	144	238	312	192.5	600	147.4	301
Total Dissolved Solids	mg/L	500	=500</td <td>AO</td> <td>60</td> <td>120</td> <td>140</td> <td>88</td> <td>340</td> <td>98</td> <td>226</td>	AO	60	120	140	88	340	98	226
Hardness (CaCO3)	mg/L	80-100	=500</td <td>AO</td> <td>55.7</td> <td>81</td> <td>99</td> <td>69</td> <td>180</td> <td>51</td> <td>100</td>	AO	55.7	81	99	69	180	51	100
pH	pH units	6.5-8.5	6.5-8.5	AO	6.67	6.55	6.6	7	6.7	6.75	6.6
Turbidity	NTU's	5	1	MAC	< 0.05	21.1	8.9	5	5.7	<0.5	<0.5
Alkalinity	mg/L				48	46	45	47	40	49	44
Chloride	mg/L	250	=250</td <td>AO</td> <td>9.3</td> <td>32.1</td> <td>61</td> <td>21.6</td> <td>120</td> <td>7.7</td> <td>61.7</td>	AO	9.3	32.1	61	21.6	120	7.7	61.7
Fluoride	mg/L	1.5	1.5	MAC	0.05	<0.6	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfate	mg/L	500	=500</td <td>AO</td> <td>5.03</td> <td>10.6</td> <td>9.5</td> <td>8.1</td> <td>17.3</td> <td>8.9</td> <td>11.5</td>	AO	5.03	10.6	9.5	8.1	17.3	8.9	11.5
Nitrate (N)	mg/L	10	10	MAC	0.34	0.4	0.4	0.4	0.3	0.4	0.4
Nitrite (N)	mg/L	1			< 0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
T-Aluminum	mg/L		0.2	MAC	< 0.005	< 0.005	0.007	< 0.005	< 0.005	< 0.005	0.005
T-Antimony	mg/L		0.006	MAC	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0002	< 0.0002	< 0.0002
T-Arsenic	mg/L	0.025	0.025	IMAC	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
T- Barium	mg/L	1.0	1	MAC	< 0.001	< 0.001	0.001	< 0.001	0.002	< 0.001	0.001
T-Boron	mg/L	5.0	5	MAC	0.013	0.017	0.02	0.019	0.024	0.016	0.019
T-Cadmium	mg/L	0.005			< 0.00001	0.0001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00007
T-Calcium	mg/L				16.7	24.4	30.4	21.5	55.8	15.7	31.7
T-Chromium	mg/L	0.05	0.05	MAC	< 0.0005	< 0.0005	0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0004
T-Copper	mg/L	1.0	=1</td <td>MAC</td> <td>0.008</td> <td>0.009</td> <td>0.017</td> <td>0.004</td> <td>0.003</td> <td>0.005</td> <td>0.01</td>	MAC	0.008	0.009	0.017	0.004	0.003	0.005	0.01
T-Iron	mg/L	0.3	=0.3</td <td>AO</td> <td><0.1</td> <td>2.9</td> <td>2.2</td> <td>0.5</td> <td>0.4</td> <td><0.1</td> <td>0.06</td>	AO	<0.1	2.9	2.2	0.5	0.4	<0.1	0.06
T-Lead	mg/L	0.01	0.01	MAC	0.0007	0.0014	0.0027	0.0005	0.0002	0.0002	0.0005
T-Magnesium	mg/L		=700</td <td>AO</td> <td>3.4</td> <td>4.9</td> <td>5.7</td> <td>3.8</td> <td>10.6</td> <td>2.9</td> <td>6.12</td>	AO	3.4	4.9	5.7	3.8	10.6	2.9	6.12
T-Manganese	mg/L	0.05	=0.05</td <td>AO</td> <td>< 0.005</td> <td>0.013</td> <td>0.026</td> <td>0.006</td> <td>0.008</td> <td>< 0.005</td> <td>0.0013</td>	AO	< 0.005	0.013	0.026	0.006	0.008	< 0.005	0.0013
T-Mercury	mg/L	0.001	0.001	MAC	< 0.0002	< 0.0002	< 0.0002	< 0.0001	< 0.0001	<0.0001	< 0.01
T-Potassium	mg/L				<0.4	0.4	0.5	0.4	0.8	<0.4	0.5
T-Selenium	mg/L	0.01	0.01	MAC	< 0.0002	< 0.0002	0.0003	0.0004	< 0.0002	0.0005	<0.0006
T-Sodium	mg/L	200	=200</td <td>AO</td> <td>4.2</td> <td>8.2</td> <td>10.4</td> <td>9.4</td> <td>32.6</td> <td>7.6</td> <td>17.7</td>	AO	4.2	8.2	10.4	9.4	32.6	7.6	17.7
T-Uranium	mg/L	0.1	0.1	MAC	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0004
T-Zinc	mg/L	5	<5	AO	0.023	0.009	0.019	0.005	0.007	0.008	0.01
Total Coliform	cfu/100ml	<1	<1	cfu/100ml			*1	<1	<1	*OG	<1
Fecal Coliform	cfu/100ml	<1	<1	cfu/100ml			<1	<1	<1	<1	<1
E.coli	cfu/100ml	<1	<1	cfu/100ml					<1	<1	<1

Note: Total coliforms can be an indicator of adverse water quality if the result in the re-sample is confirmed positive. (United States Environmental Protection Agency (EPA), 2008) RDN Water samples are always tested for Fecal coliform bacteria at the same time as Total coliforms to rule out the presence of harmful pathogens.

*Resampled and had <1 for all Coliforms

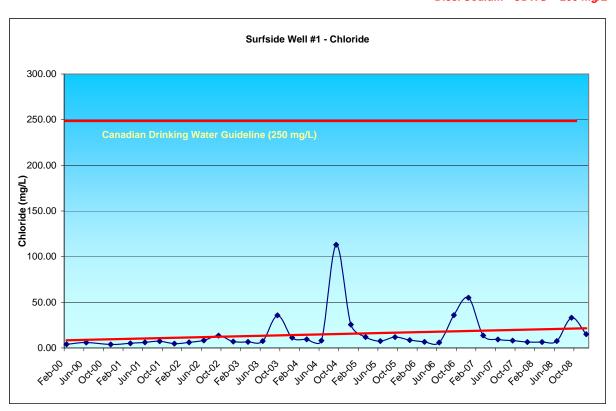


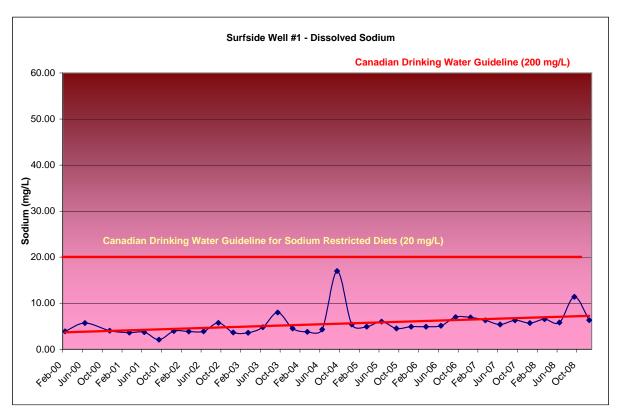
Quarterly Chloride - Sodium Comparison

Chloride - CDWG = 250 mg/L Diss. Sodium - CDWG = 200 mg/L

Date	Chloride	Sodium
	(mg/L)	(mg/L)
Jun-99	5.30	5.00
Oct-99	pump out of	commision
Feb-00	4.10	3.90
Jun-00	5.90	5.70
Nov-00	3.81	4.04
Mar-01	5.13	3.61
Jun-01	6.16	3.71
Sep-01	7.33	2.09
Dec-01	4.76	3.97
Mar-02	6.16	3.86
Jun-02	8.23	3.90
Sep-02	13.55	5.72
Dec-02	6.96	3.65
Mar-03	6.59	3.58
Jun-03	7.50	4.80
Sep-03	35.70	8.00
Dec-03	11.20	4.50
Mar-04	9.50	3.80
Jun-04	8.10	4.30
Sep-04	113.00	17.00
Dec-04	25.60	5.40
Mar-05	12.00	4.90
Jun-05	7.60	6.00
Sep-05	11.90	4.50
Dec-05	8.50	4.90
Mar-06	6.60	4.90
Jun-06	5.90	5.10
Sep-06	36.00	7.00
Dec-06	55.00	6.90
Mar-07	13.60	6.30
Jun-07	9.30	5.40
Sep-07	8.10	6.30
Dec-07	6.40	5.70
Mar-08	6.50	6.54
Jun-08	7.50	5.80
Sep-08	33.10	11.40
	15.1	







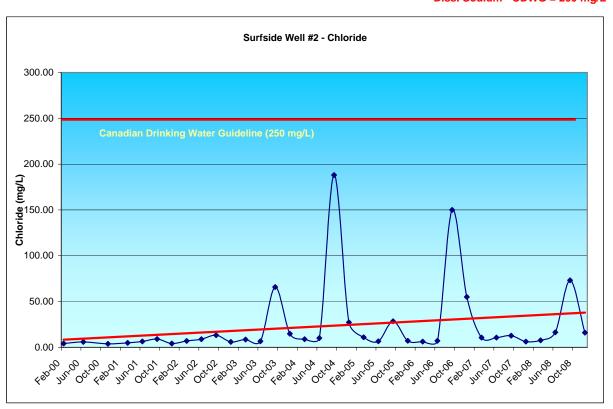


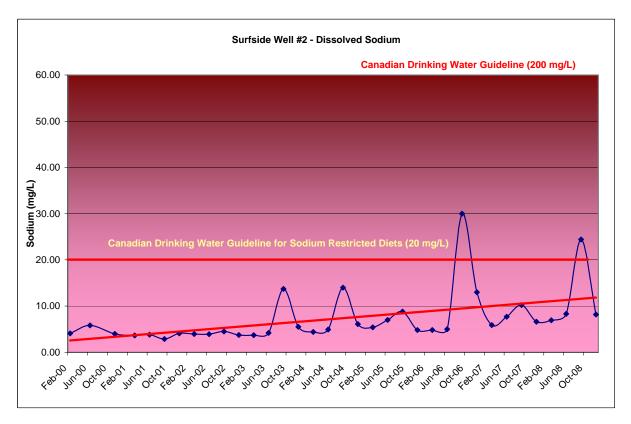
Quarterly Chloride - Sodium Comparison

Chloride - CDWG = 250 mg/L Diss. Sodium - CDWG = 200 mg/L

Date	Chloride	Sodium
	(mg/L)	(mg/L)
Jun-99	5.30	4.10
Oct-99	4.40	4.60
Feb-00	4.20	4.10
Jun-00	6.00	5.80
Nov-00	3.76	3.99
Mar-01	4.88	3.63
Jun-01	6.47	3.81
Sep-01	9.05	2.88
Dec-01	4.24	4.07
Mar-02	6.93	3.96
Jun-02	8.82	3.92
Sep-02	13.30	4.50
Dec-02	6.01	3.73
Mar-03	8.52	3.71
Jun-03	6.70	4.20
Sep-03	65.80	13.70
Dec-03	14.90	5.50
Mar-04	8.90	4.40
Jun-04	10.10	4.90
Sep-04	188.00	14.00
Dec-04	27.30	6.10
Mar-05	11.00	5.40
Jun-05	6.60	7.00
Sep-05	28.50	8.80
Dec-05	7.2	4.8
Mar-06	6.30	4.80
Jun-06	7.10	5.00
Sep-06	150.00	30.00
Dec-06	55.00	13.00
Mar-07	10.70	5.90
Jun-07	10.70	7.70
Sep-07	12.70	10.20
Dec-07	6.3	6.6
Mar-08	7.70	6.91
Jun-08	16.50	8.30
Sep-08	73.20	24.40
Dec-08	16	8.16







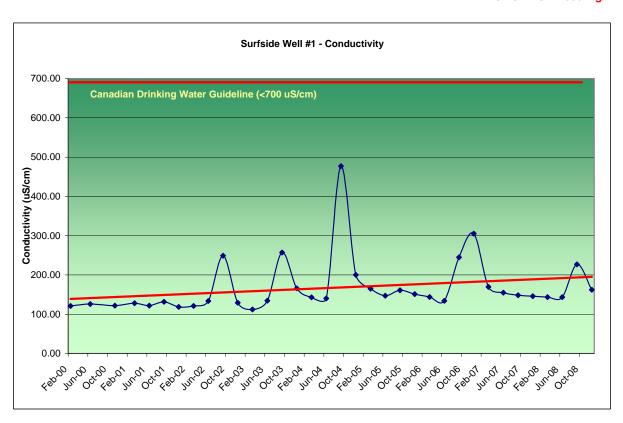


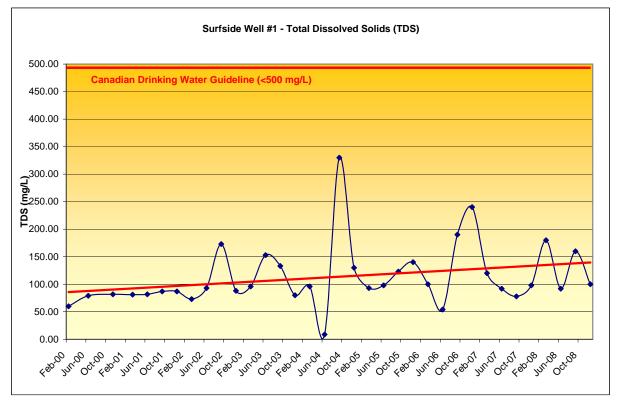
Quarterly Conductivity - TDS Comparison

Cond. - CDWG = <700 uS/cm TDS - CDWG = <500 mg/L

Date	Cond.	TDS
	(µS)	(mg/L)
Jun-99	118.00	91.00
Oct-99	pump out of	commision
Feb-00	121.00	60.00
Jun-00	126.00	79.00
Nov-00	122.00	81.70
Mar-01	128.00	81.00
Jun-01	122.00	81.70
Sep-01	131.60	87.00
Dec-01	118.70	87.00
Mar-02	121.00	73.00
Jun-02	133.50	93.00
Sep-02	249.00	173.00
Dec-02	129.00	88.00
Mar-03	112.00	96.00
Jun-03	134.60	153.00
Sep-03	257.00	133.00
Dec-03	166.00	80.00
Mar-04	143.00	96.00
Jun-04	140.00	8.700
Sep-04	477.00	330.00
Dec-04	200.00	130.00
Mar-05	164.90	93.00
Jun-05	147.00	98.00
Sep-05	160.80	123.00
Dec-05	151.00	140.00
Mar-06	144.00	100.00
Jun-06	134.10	54.00
Sep-06	245.00	190.00
Dec-06	305.00	240.00
Mar-07	169.60	120.00
Jun-07	155.00	92.00
Sep-07	148.30	78.00
Dec-07	146.00	98.00
Mar-08	143.40	180.00
Jun-08	143.40	92.00
Sep-08	227.00	160.00
Dec-08	162.00	100.00







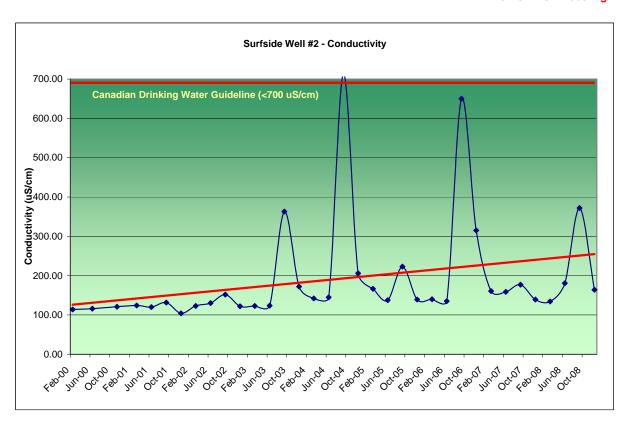


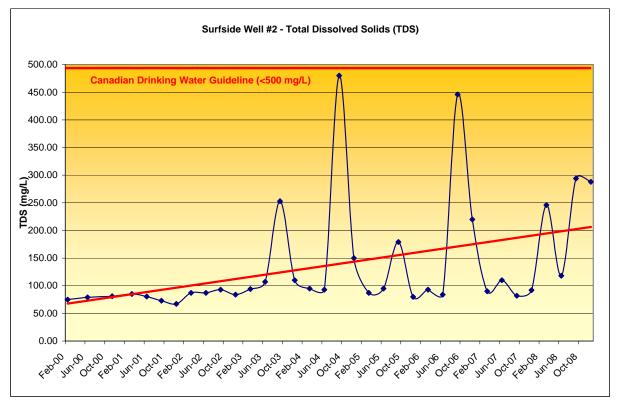
Quarterly Conductivity - TDS Comparison

Cond. - CDWG = <700 uS/cm TDS - CDWG = <500 mg/L

Date	Cond.	TDS
	(µS)	(mg/L)
Jun-99	115.00	91.00
Oct-99	114.00	75.00
Feb-00	114.00	75.00
Jun-00	116.00	79.00
Nov-00	121.00	81.10
Mar-01	124.00	85.00
Jun-01	120.00	80.40
Sep-01	131.60	73.00
Dec-01	104.10	67.00
Mar-02	123.00	87.00
Jun-02	130.20	87.00
Sep-02	152.00	93.00
Dec-02	122.00	84.00
Mar-03	123.00	94.00
Jun-03	123.80	107.00
Sep-03	363.00	253.00
Dec-03	172.00	110.00
Mar-04	142.00	95.00
Jun-04	145.00	93.00
Sep-04	713.00	480.00
Dec-04	206.00	150.00
Mar-05	166.50	87.00
Jun-05	137.40	95.00
Sep-05	223.00	179.00
Dec-05	139.20	80.00
Mar-06	139.80	93.00
Jun-06	135.20	84.00
Sep-06	650.00	446.00
Dec-06	315.00	220.00
Mar-07	160.80	90.00
Jun-07	158.60	110.00
Sep-07	177.00	82.00
Dec-07	139.00	92.00
Mar-08	134.10	246.00
Jun-08	180.60	118.00
Sep-08	372.00	294.00
Dec-08	164.00	288.0









Surfside Water Analysis - Monthly Report



Date	Sample Location	Fecal Coli *	Total Coli *	Total Coli	E Coli	Temp	рН	Cl ₂	TDS	Sal	Cond	Fe	Mn
Jan-08	(Address)	Health Dep	Health Dep	RDN	RDN	°C		ppm	ppm	%	uS/cm	ppm	ppm
08-Jan	1081 Surfside Dr	0	0	0	0	6	6.7	n/a	68	0.1	148.6	0.03	0.005
10-Jan	121 Kinkade					7	6.7	n/a	96	0.1	206		
15-Jan	965 Surfside Dr	0	0	0	0	6	6.9	n/a	70	0.1	150		
17-Jan	121 Kinkade					7	6.8	n/a	96	0.1	76		
22-Jan	1081 Surfside Dr					6	6.7	n/a	68	0.1	149		
24-Jan	121 Kinkade							n/a					
	Average	0	0	0	0	6.4	6.8	#DIV/0!	68.7	0.1	149.2	0.03	0.005
	Maximum	0	0	0	0	7	6.9	0	96	0.1	206	0.03	0.005
	Minimum	0	0	0	0	6	6.7	0	68	0.1	76	0.03	0.005

Red font indicates non-compliance with Canadian Drinking Water Guidelines / BC Approved Water Quality Guidelines Coliforms are measured in colony forming units (CFU) per 100 millilitres of water

Comments:

^{*} Yellow Column Coliform tests are done by Health Department Green tests are completed by RDN



Surfside Water Analysis - Monthly Report



Date	Sample Location	Fecal Coli *	Total Coli *	Total Coli	E Coli	Temp	рН	Cl ₂	TDS	Sal	Cond	Fe	Mn
Feb-08	(Address)	Health Dep	Health Dep	RDN	RDN	°C		ppm	ppm	%	uS/cm	ppm	ppm
05-Feb	1081 Surfside Dr	0	0	0	0	5	6.8	n/a	74	0.1	159	0.07	0.006
07-Feb	121 Kinkade					6	6.7	n/a	97	0.1	208		
12-Feb	965 Surfside Dr	0	0	0	0	5	6.8	n/a	69	0.1	147		
20-Feb	1081 Surfside Dr			0	0	6	6.9	n/a	66	0.1	141		
21-Feb	121 Kinkade					7	6.8	n/a	95	0.1	201		
26-Feb	965 Surfside Dr			0	0	7	6.8	n/a	66	0.1	141		
28-Feb	121 Kinkade					7	6.8	n/a	93	0.1	196		
	Average	0	0	0	0	6.1	6.8	#DIV/0!	68.8	0.1	147.0	0.07	0.006
	Maximum	0	0	0	0	7	6.9	0	97	0.1	208	0.07	0.006
	Minimum	0	0	0	0	5	6.7	0	66	0.1	141	0.07	0.006

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Surfside Water Analysis - Monthly Report



Date	Sample Location	Fecal Coli *	Total Coli *	Total Coli	E Coli	Temp	рН	Cl ₂	TDS	Sal	Cond	Fe	Mn
Mar-08	(Address)	Health Dep	Health Dep	RDN	RDN	°C		ppm	ppm	%	uS/cm	ppm	ppm
04-Mar	965 Surfside Dr	0	0	0	0	8	6.8	n/a	64	0.1	140	0.09	0.005
06-Mar	121 Kinkade					8	6.8	n/a	98	0.1	206		
12-Mar	1081 Surfside Dr	0	0	0	0	7	6.5	n/a	66	0.1	142		
13-Mar	121 Kinkade					7	6.8	n/a	95	0.1	203		
18-Mar	965 Surfside Dr			0	0	8	6.8	n/a	73	0.1	155		
26-Mar	1081 Surfside Dr					8	6.8	n/a	72	0.1	152		
	Average	0	0	0	0	7.7	6.8	#DIV/0!	78.0	0.1	166.3	0.09	0.005
	Maximum	0	0	0	0	8	6.8	0	98	0.1	206	0.09	0.005
	Minimum	0	0	0	0	7	6.5	0	64	0.1	140	0.09	0.005

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Surfside Water Analysis - Monthly Report



Date Apr-08	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ° C	рН	Cl ₂	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
02-Apr	965 Surfside Dr	0	0	0	0	8	6.9	n/a	69	0.1	148	0.01	
08-Apr	1081 Surfside Dr	0	0	0	0	9	6.8	n/a	69	0.1	144		
10-Apr	121 Kinkade					8	6.7	n/a	100	0.1	209		
15-Apr	965 Surfside Dr			0	0	9	6.7	n/a	70	0.1	148		0
17-Apr	121 Kinkade					10	6.8	n/a	95	0.1	201		
22-Apr	1081 Surfside Dr			0	0	10	6.9	n/a	69	0.1	145		
24-Apr	121 Kinkade					10	6.9	n/a	94	0.1	198		
	Average	0	0	0	0	9.1	6.8	#DIV/0!	80.9	0.1	170.4	0.01	0
	Maximum	0	0	0	0	10	6.9	0	100	0.1	209	0.01	0
	Minimum	0	0	0	0	8	6.7	0	69	0.1	144	0.01	0

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Comments:



Surfside Water Analysis - Monthly Report



Date	Sample Location	Fecal Coli *	Total Coli *	Total Coli	E Coli	Temp	рН	Cl ₂	TDS	Sal	Cond	Fe	Mn
May-08	(Address)	Health Dep	Health Dep	RDN	RDN	°C		ppm	ppm	%	uS/cm	ppm	ppm
06-May	1081 Surfside Dr	0	0	0	0	11	6.5	n/a	69	0.1	148	0.03	0.001
15-May	121 Kinkade Rd					11	6.8	n/a	90	0.1	190		
21-May	965 Surfside Dr	0	0	0	0	13	6.8	n/a	7	0.1	150		
27-May	1081 Surfside Dr			0	0	14	6.5	n/a	68	0.1	145		
29-May	121 Kinkade Rd					14	6.7	n/a	79	0.1	181		
	Average	0	0	0	0	12.6	6.7	#DIV/0!	62.6	0.1	162.8	0.03	0.001
	Maximum	0	0	0	0	14	6.8	0	90	0.1	190	0.03	0.001
	Minimum	0	0	0	0	11	6.5	0	7	0.1	145	0.03	0.001

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Surfside Water Analysis - Monthly Report



Date	Sample Location	Fecal Coli *	Total Coli *	Total Coli	E Coli	Temp	рН	Cl ₂	TDS	Sal	Cond	Fe	Mn
Jun-08	(Address)	Health Dep	Health Dep	RDN	RDN	°C		ppm	ppm	%	uS/cm	ppm	ppm
04-Jun	1081 Surfside Dr	0	0	0	0	13	6.6	n/a	72	0.1	155	0.07	0.002
05-Jun	121 Kinkade					13	6.7	n/a	93	0.1	196		
11-Jun	965 Surfside Dr	0	0	0	0	14	6.8	n/a	78	0.1	163		
17-Jun	1081 Surfside Dr			0	0	15	6.7	n/a	77	0.1	161		
19-Jun	121 Kinkade					15	6.7	n/a	88	0.1	185		
24-Jun	965 Surfside Dr			0	0	18	6.6	n/a	75	0.1	158		
	Average	0	0	0	0	14.7	6.7	#DIV/0!	80.5	0.1	169.7	0.07	0.002
	Maximum	0	0	0	0	18	6.8	0	93	0.1	196	0.07	0.002
	Minimum	0	0	0	0	13	6.6	0	72	0.1	155	0.07	0.002

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Comments:

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Surfside Water Analysis - Monthly Report



Date	Sample Location	Fecal Coli *	Total Coli *	Total Coli	E Coli	Temp	рН	Cl ₂	TDS	Sal	Cond	Fe	Mn
Jul-08	(Address)	Health Dep	Health Dep	RDN	RDN	°C		ppm	ppm	%	uS/cm	ppm	ppm
02-Jul	1081 Surfside Dr	0	0					n/a					
09-Jul	965 Sufside Dr	0	0	0	0	17	6.8	n/a	92	0.1	198	80.0	0.003
15-Jul	1081 Surfside Dr			0	0	17	6.8	n/a	86	0.1	186		
22-Jul	965 Sufside Dr			0	0	18	6.7	n/a	91	0.1	192		
29-Jul	1081 Surfside Dr			0	0	17	6.7	n/a	89	0.1	188		
	Average	0	0	0	0	17.3	6.8	#DIV/0!	89.5	0.1	191.0	0.08	0.003
	Maximum	0	0	0	0	18	6.8	0	92	0.1	198	0.08	0.003
	Minimum	0	0	0	0	17	6.7	0	86	0.1	186	0.08	0.003

Red font indicates non-compliance with Canadian Drinking Water Guidelines / BC Approved Water Quality Guidelines Coliforms are measured in colony forming units (CFU) per 100 millilitres of water

Comments:

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Surfside Water Analysis - Monthly Report



Date	Sample Location	Fecal Coli *	Total Coli *	Total Coli	E Coli	Temp	рН	Cl ₂	TDS	Sal	Cond	Fe	Mn
Aug-08	(Address)	Health Dep	Health Dep	RDN	RDN	°C		ppm	ppm	%	uS/cm	ppm	ppm
06-Aug	965 Surfside Dr	0	0	0	0	17	6.7	n/a	126	0.1	264	0.09	0.003
12-Aug	1081 Surfside Dr	0	0	0	0	17	6.7	n/a	120	0.1	251		
19-Aug	965 Surfside Dr			0	0	19	6.6	n/a	135	0.1	282		
26-Aug	1081 Surfside Dr			0	0	17	6.3	n/a	143	0.1	301		
	Average	0	0	0	0	17.5	6.6	#DIV/0!	131.0	0.1	274.5	0.09	0.003
	Maximum	0	0	0	0	19	6.7	0	143	0.1	301	0.09	0.003
	Minimum	0	0	0	0	17	6.3	0	120	0.1	251	0.09	0.003

Red font indicates non-compliance with Canadian Drinking Water Guidelines / BC Approved Water Quality Guidelines Coliforms are measured in colony forming units (CFU) per 100 millilitres of water

Comments:

^{*} Yellow Column Coliform tests are done by Health Department Green tests are completed by RDN



Surfside Water Analysis - Monthly Report



Date	Sample Location	Fecal Coli *	Total Coli *	Total Coli	E Coli	Temp	рН	Cl ₂	TDS	Sal	Cond	Fe	Mn
Sep-08	(Address)	Health Dep	Health Dep	RDN	RDN	°C		ppm	ppm	%	uS/cm	ppm	ppm
03-Sep	1081 Surfside Dr							n/a					
16-Sep	1081 Surfside Dr	0	0	0	0	17	6.6	n/a	141	0.1	295	0.1	0.004
24-Sep	962 Surfside Dr	0	0					n/a					
_	Average	0	0	0	0	17.0	6.6	#DIV/0!	141.0	0.1	295.0	0.10	0.004
	Maximum	0	0	0	0	17	6.6	0	141	0.1	295	0.1	0.004
	Minimum	0	0	0	0	17	6.6	0	141	0.1	295	0.1	0.004

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Comments:

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Surfside Water Analysis - Monthly Report



Date Oct-08	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ° C	pН	Cl ₂	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
001-00	(Addicss)	Ticaltii Dcp	ricaitii Dcp	KDN	KDN	Ů		ppiii	ррш	70	uo/ciii	ррш	ррііі
07-Oct	962 Surfside Dr	0	2	0	0	13	6.8	n/a	149	0.1	311	0.11	0.004
15-Oct	1081 Surfside Dr	0	1	0	0	14	6.7	n/a	104	0.1	219		
21-Oct	962 Surfside Dr			0	0	14	7	n/a	105	0.1	222		
29-Oct	1081 Surfside Dr			0	0	13	6.6	n/a	99	0.1	207		
	Average	0	1.5	0	0	13.5	6.8	#DIV/0!	114.3	0.1	239.8	0.11	0.004
	Maximum	0	2	0	0	14	7	0	149	0.1	311	0.11	0.004
	Minimum	0	1	0	0	13	6.6	0	99	0.1	207	0.11	0.004

Red font indicates non-compliance with Canadian Drinking Water Guidelines / BC Approved Water Quality Guidelines Coliforms are measured in colony forming units (CFU) per 100 millilitres of water

Comments:

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Surfside Water Analysis - Monthly Report



Date	Sample Location	Fecal Coli *	Total Coli *	Total Coli	E Coli	Temp	рН	Cl ₂	TDS	Sal	Cond	Fe	Mn
Nov-08	(Address)	Health Dep	Health Dep	RDN	RDN	°C		ppm	ppm	%	uS/cm	ppm	ppm
04-Nov	962 Surfside Dr	0	0	0	0	12	6.8	n/a	94	0.1	198	0	0.008
12-Nov	1081 Surfside Dr		2	1	0	12	6.8	n/a	92	0.1	195		
18-Nov	962 Surfside Dr			1	0	12	6.5	n/a	88	0.1	187		
19-Nov	*1081 Surfside Dr	0	0					n/a					
25-Nov	1081 Surfside Dr			1	0	10	6.5	n/a	87	0.1	183		
	Average	0	0.67	0.75	0	11.5	6.7	#DIV/0!	90.3	0.1	190.8	0.00	0.008
	Maximum	0	2	1	0	12	6.8	0	94	0.1	198	0	0.008
	Minimum	0	0	0	0	10	6.5	0	87	0.1	183	0	0.008

Red font indicates non-compliance with Canadian Drinking Water Guidelines / BC Approved Water Quality Guidelines Coliforms are measured in colony forming units (CFU) per 100 millilitres of water

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

* Health department re-sample

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Surfside Water Analysis - Monthly Report



Date	Sample Location	Fecal Coli *	Total Coli *	Total Coli	E Coli	Temp	рН	Cl ₂	TDS	Sal	Cond	Fe	Mn
Dec-08	(Address)	Health Dep	Health Dep	RDN	RDN	°C		ppm	ppm	%	uS/cm	ppm	ppm
02-Dec	962 Surfside Dr	0	1	1	0	11	6.6	n/a	81	0.1	172	0.01	0
09-Dec	1081 Surfside Dr	0	0	1	0	9	6.8	n/a	86	0.1	185		
16-Dec	962 Surfside Dr			0	0			n/a					
	Average	0	0.5	0.67	0	10.0	6.7	#DIV/0!	83.5	0.1	178.5	0.01	0
	Maximum	0	1	1	0	11	6.8	0	86	0.1	185	0.01	0
	Minimum	0	0	0	0	9	6.6	0	81	0.1	172	0.01	0

Red font indicates non-compliance with Canadian Drinking Water Guidelines / BC Approved Water Quality Guidelines Coliforms are measured in colony forming units (CFU) per 100 millilitres of water

Comments:

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APPENDIX C

EMERGENCY RESPONSE PLAN





* Emergency Response Plan not included in Public Copy.

