



Regional District of Nanaimo - Water Services Department

Surfside Water Analysis - 2012 Monthly Report



Date	Sample Location (Address)	Health Department		In-House									
		E.coli *	Total Coliform *	E.coli *	Total Coliform *	Temp. (°C)	pH	Free Chlorine Residual (mg/L)	Total Dissolved Solids (mg/L)	Salinity (%)	Conductivity (µS/cm)	Total Iron (mg/L)	Manganese (mg/L)
5-Jan-12	962 Surfside			0	0	7	6.69	0.62	67.7	0.07	143.0	0.02	0.001
11-Jan-12	1081 Surfside	0	0	0	0		6.51	0.31	76.6	0.08	161.8		
16-Jan-12	923 McFeely	0	0	0	0	6	6.60	0.20	66.3	0.06	140.1		
24-Jan-12	962 Surfside	0	0	0	0	6	6.70	0.41	65.7	0.07	138.9		
30-Jan-12	923 McFeely			0	0	7	6.58	0.26	69.3	0.07	124.4		
	Average	0	0	0	0	6.5	6.6	0.36	69.1	0.07	141.6	0.02	0.001
	Maximum	0	0	0	0	7	6.7	0.62	76.6	0.08	161.8	0.02	0.001
	Minimum	0	0	0	0	6	6.51	0.2	65.7	0.06	124.4	0.02	0.001

Red font indicates non-compliance with Canadian Drinking Water Guidelines

Aesthetic Objective for Iron is ≤0.3 mg/L

Aesthetic Objective for Manganese is ≤0.05mg/L

*Coliforms are measured in colony forming units (CFU) per 100 millilitres of water (CFU/100mL)

Yellow Column Coliform tests are completed by Health Department

Blue column tests are completed by RDN

Comments:

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

Total coliforms can be an indicator of adverse water quality if the result in the resample is positive (US Environmental Protection Agency). 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. If background bacteria (BG), total or fecal bacteria are detected location is resampled. If the bacteria test is overgrown (OG) location is also resampled.



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6-Feb-12	962 Surfside	0	0	0	0	6	6.71	0.59	63.7	0.06	134.6	0.02	0.004
14-Feb-12	1081 Surfside	0	0	0	0	7	6.56	0.33	73.1	0.07	154.5		
21-Feb-12	923 McFeely	0	0	0	0	6	6.62	0.27	65.9	0.07	139.9		
27-Feb-12	962 Surfside			0	0	7	6.66	0.53	65.3	0.06	137.9		
	Average	0	0	0	0	6.5	6.6	0.43	67.0	0.07	141.7	0.02	0.004
	Maximum	0	0	0	0	7	6.71	0.59	73.1	0.07	154.5	0.02	0.004
	Minimum	0	0	0	0	6	6.56	0.27	63.7	0.06	134.6	0.02	0.004

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7-Mar-12	1081 Surfside	0	0	0	0	6	6.62	0.36	67.9	0.07	143.5	0.005	0.001
12-Mar-12	923 McFeely	0	0	0	0	6	6.51	0.35	62.2	0.06	129.8		
20-Mar-12	962 Surfside	0	0	0	0	7	6.49	0.58	64.8	0.06	136.9		
26-Mar-12	1081 Surfside			0	0	6	6.84	0.03	67.3	0.07	142.3		
	Average	0	0	0	0	6.3	6.6	0.33	65.6	0.07	138.1	0.01	0.001
	Maximum	0	0	0	0	7	6.84	0.58	67.9	0.07	143.5	0.005	0.001
	Minimum	0	0	0	0	6	6.49	0.03	62.2	0.06	129.8	0.005	0.001

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2-Apr-12	923 McFeely	0	0	0	0	8	6.55	0.29	62.8	0.06	114.9	0.03	0.012
10-Apr-12	962 Surfside	0	0	0	0	9	6.46	0.29	62.7	0.06	132.2		
16-Apr-12	1081 Surside	0	0	0	0	9	6.7	0.02	61.1	0.06	99.1		
24-Apr-12	923 McFeely			0	0	11	6.62	0.03	62.5	0.06	108		
	Average	0	0	0	0	9.3	6.6	0.16	62.3	0.06	113.6	0.03	0.012
	Maximum	0	0	0	0	11	6.7	0.29	62.8	0.06	132.2	0.03	0.012
	Minimum	0	0	0	0	8	6.46	0.02	61.1	0.06	99.1	0.03	0.012

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1-May-12	962 Surfside	0	0	0	0	11	7.13	0.31	63.4	0.06	113.1	0.03	0.008
8-May-12	923 McFeely	0	0	0	0	11	6.91	0.12	62.4	0.06	105.8		
16-May-12	1081 Surfside	0	0	0	0	12	6.56	0.21	63.1	0.06	133.2		
22-May-12	962 Surfside			0	0	14	6.75	0.41	65.4	0.06	138.3		
	Average	0	0	0	0	12.0	6.8	0.26	63.6	0.06	122.6	0.03	0.008
	Maximum	0	0	0	0	14	7.13	0.41	65.4	0.06	138.3	0.03	0.008
	Minimum	0	0	0	0	11	6.56	0.12	62.4	0.06	105.8	0.03	0.008

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4-Jun-12	1081 Surfside	0	0	0	0	13	6.98	0.24	64.9	0.06	137.1	0.17	0.004
12-Jun-12	923 McFeely	0	0	0	0	14	6.57	0.31	64.7	0.06	137.0		
19-Jun-12	962 Surfside	0	0	0	0	15	6.57	0.49	66.4	0.07	140.5		
26-Jun-12	1081 Surfside			0	0	15	6.92	0.47	68.1	0.07	125.5		
	Average	0	0	0	0	14.3	6.8	0.38	66.0	0.07	135.0	0.17	0.004
	Maximum	0	0	0	0	15	6.98	0.49	68.1	0.07	140.5	0.17	0.004
	Minimum	0	0	0	0	13	6.57	0.24	64.7	0.06	125.5	0.17	0.004

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9-Jul-12	923 McFeely	0	0	0	0	16	6.61	0.44	79.1	0.08	148.3	0.03	0.005
17-Jul-12	1081 Surfside	0	0	0	0		6.55	0.34	81.4	0.08	171.5		
24-Jul-12	962 Surfside	0	0	0	0	13	6.53	0.33	78.7	0.08	166.2		
30-Jul-12	923 McFeely			0	0	17	6.54	0.18	82.3	0.08	173.5		
	Average	0	0	0	0	15.3	6.6	0.32	80.4	0.1	164.9	0.03	0.005
	Maximum	0	0	0	0	17	6.61	0.44	82.3	0.08	173.5	0.03	0.005
	Minimum	0	0	0	0	13	6.53	0.18	78.7	0.08	148.3	0.03	0.005

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7-Aug-12	962 Surfside	0	0	0	0	14	6.71	0.42	89.5	0.09	173.6	0.02	0.023
14-Aug-12	1081 Surfside	0	0	0	0	15	6.87	0.41	101.9	0.10	214.0		
21-Aug-12	962 Surfside			0	0	15	6.85	0.83	99.0	0.10	207.9		
28-Aug-12	923 Mcfeely	0	0	0	0	18	6.97	0.32	105.5	0.10	221.0		
	Average	0	0	0	0	15.5	6.9	0.50	99.0	0.1	204.1	0.02	0.023
	Maximum	0	0	0	0	18	6.97	0.83	105.5	0.1	221	0.02	0.023
	Minimum	0	0	0	0	14	6.71	0.32	89.5	0.09	173.6	0.02	0.023

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5-Sep-12	1081 Surfside	0	0	0	0	15	6.94	0.10	124.6	0.12	261.0	0.02	0.016
12-Sep-12	923 McFeely	0	0	0	0	16	6.43	0.10	104.1	0.10	219.3		
18-Sep-12	962 Surfside	0	0	0	0	14	6.80	0.21	109.4	0.11	229.0		
24-Sep-12	1081 Surfside			0	0	15	6.50	0.24	109.3	0.11	229.0		
	Average	0	0	0	0	15.0	6.7	0.16	111.9	0.1	234.6	0.02	0.016
	Maximum	0	0	0	0	16	6.94	0.24	124.6	0.12	261	0.02	0.016
	Minimum	0	0	0	0	14	6.43	0.1	104.1	0.1	219.3	0.02	0.016

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3-Oct-12	923 Mcfeely	0	0	0	0	15	6.37	0.24	104.5	0.10	218.8	0.04	0.035
15-Oct-12	1081 Surfside	0	0	0	0	14	6.78	0.18	100.6	0.10	211.1		
15-Oct-12	962 Surfside	0	0	0	0	13	6.78	0.16	134.4	0.13	281.0		
24-Oct-12	923 Mcfeely			0	0	13	6.79	0.15	102.7	0.10	215.6		
	Average	0	0	0	0	13.8	6.7	0.18	110.6	0.1	231.6	0.04	0.035
	Maximum	0	0	0	0	15	6.79	0.24	134.4	0.13	281	0.04	0.035
	Minimum	0	0	0	0	13	6.37	0.15	100.6	0.1	211.1	0.04	0.035

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13-Nov-12	1081 Surfside	0	0	0	0		6.68	0.13	97.6	0.09	204.6	0.03	0.26
20-Nov-12	923 McFeely	0	0	0	0	10	6.45	0.09	87.0	0.09	183.2		
27-Nov-12	962 Surfside	0	0	0	0	9	6.68	0.33	79.7	0.08	168.3		
	Average	0	0	0	0	9.5	6.6	0.18	88.1	0.1	185.4	0.03	0.26
	Maximum	0	0	0	0	10	6.68	0.33	97.6	0.09	204.6	0.03	0.26
	Minimum	0	0	0	0	9	6.45	0.09	79.7	0.08	168.3	0.03	0.26

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4-Dec-12	1081 Surfside	0	0	0	0	9	6.56	0.17	91	0.09	191.4	0.03	0.000
11-Dec-12	923 McFeely	0	0	0	0	8	6.56	0.19	82.9	0.08	175.1		
17-Dec-12	962 Surfside	0	0	0	0	7	6.61	0.31	74.8	0.07	158.1		
	Average	0	0	0	0	8.0	6.6	0.22	82.9	0.1	174.9	0.03	0.000
	Maximum	0	0	0	0	9	6.61	0.31	91	0.09	191.4	0.03	0.000
	Minimum	0	0	0	0	7	6.56	0.17	74.8	0.07	158.1	0.03	0.000

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