

Regional District of Nanaimo - Utilities Department

Arbutus Water Analysis - Monthly Report

Date	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ° C	pH	Cl ₂ ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
5-Jan	2329 Chain Way	0	0	0	0	9	7	0.08	176	0.2	374		
18-Jan	2940 Fairwinds	0	0	0	0	8	6.9	0.15	176	0.2	374	0.48	0.215
25-Jan	2832 Powder Pt	0	0	0	0	8	7.1	0.17	177	0.2	374		
	Average	0	0	0	0	8.3	7.0	0.13	176.3	0.2	374.0	0.48	0.215
	Maximum	0	0	0	0	9	7.1	0.17	177	0.2	374	0.48	0.215
	Minimum	0	0	0	0	8	6.9	0.08	176	0.2	374	0.48	0.215

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

* Yellow Column Coliform tests are done by Health Department

Green tests are completed by RDN

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1-Feb	2329 Chain Way	0	0	0	0	8	7.1	0.09	177	0.2	377	0.04	0.01
8-Feb	2832 Powder Pt			0	0	8	7	0.12	177	0.2	372		
15-Feb	2940 Fairwinds	0	0	0	0	7	7	0.43	179	0.2	384		
22-Feb	2329 Chain Way			0	0	6	7	0.04	178	0.2	377		
	Average	0	0	0	0	7.3	7.0	0.17	177.8	0.2	377.5	0.04	0.01
	Maximum	0	0	0	0	8	7.1	0.43	179	0.2	384	0.04	0.01
	Minimum	0	0	0	0	6	7	0.04	177	0.2	372	0.04	0.01

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1-Mar	2832 Powder Pt	0	0	0	0	8	6.8	0.15	171	0.2	357	0.46	0.181
8-Mar	2940 Fairwinds Dr	0	0			9	7.1	0.12	175	0.2	368		
15-Mar	2329 Chain Way	0	0	0	0	8	7.2	0.05	179	0.2	375		
	Average	0	0	0	0	8.3	7.0	0.11	175.0	0.2	366.7	0.46	0.181
	Maximum	0	0	0	0	9	7.2	0.15	179	0.2	375	0.46	0.181
	Minimum	0	0	0	0	8	6.8	0.05	171	0.2	357	0.46	0.181

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Date Apr-05	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ° C	pH	Cl ₂ ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
5-Apr	2832 Powder Pt	0	0	0	0	9	7.2	0.16	181	0.2	383	0.62	0.261
12-Apr	2940 Fairwinds	0	0	0	0	9	7.1	0.11	177	0.2	374		
19-Apr	2329 Chain			0	0	9	6.9	0.04	177	0.2	372		
26-Apr	2832 Powder Pt			0	0	11	7	0.12	177	0.2	371		
	Average	0	0	0	0	9.5	7.1	0.11	178.0	0.2	375.0	0.62	0.261
	Maximum	0	0	0	0	11	7.2	0.16	181	0.2	383	0.62	0.261
	Minimum	0	0	0	0	9	6.9	0.04	177	0.2	371	0.62	0.261

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Green tests are completed by RDN

Comments:

Not all bacteria test results are returned from Health Department therefore some data may be missing.

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



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Date	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ° C	pH	Cl ₂ ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
3-May	2940 Fairwinds	0	0	0	0	12	6.9	0.04	168	0.2	353	0.1	0.098
10-May	2832 Powder Pt	0	0	0	0	11	7	0.03	168	0.2	352		
17-May	2329 Chain	0	0	0	0	12	7	0.05	172	0.2	361		
25-May	2940 Fairwinds			0	0	13	7	0.03	169	0.2	353		
31-May	2329 Chain			0	0	12	7	0.06	174	0.2	365		
	Average	0	0	0	0	12.0	7.0	0.04	170.2	0.2	356.8	0.10	0.098
	Maximum	0	0	0	0	13	7	0.06	174	0.2	365	0.1	0.098
	Minimum	0	0	0	0	11	6.9	0.03	168	0.2	352	0.1	0.098

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Date Jun-05	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ° C	pH	Cl ₂ ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
7-Jun	2832 Powder Pt	0	0	0	0	11	7	0.31	181	0.2	383	0.58	0.283
14-Jun	2940 Fairwinds	0	0	0	0	14	7	0.11	176	0.2	369		
21-Jun	2329 Chain Way	0	0	0	0	13	7	0.11	175	0.2	368		
28-Jun	2832 Powder Pt			0	0	11	6.9	0.16	176	0.2	370		
	Average	0	0	0	0	12.3	7.0	0.17	177.0	0.2	372.5	0.58	0.283
	Maximum	0	0	0	0	14	7	0.31	181	0.2	383	0.58	0.283
	Minimum	0	0	0	0	11	6.9	0.11	175	0.2	368	0.58	0.283

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



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5-Jul	2940 Fairwinds	0	0	0	0	16	7	0.12	174	0.2	365	0.36	0.181
12-Jul	2832 Powder Pt	0	0	0	0	12	6.9	0.25	161	0.2	338		
19-Jul	2329 Chain Way			0	0	13	7.1	0.12	172	0.2	361		
26-Jul	2940 Fairwinds			1	0	17	6.9	0.1	176	0.2	370		
	Average	0	0	0.25	0	14.5	7.0	0.15	170.8	0.2	358.5	0.36	0.181
	Maximum	0	0	1	0	17	7.1	0.25	176	0.2	370	0.36	0.181
	Minimum	0	0	0	0	12	6.9	0.1	161	0.2	338	0.36	0.181

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Date Aug-05	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ° C	pH	Cl ₂ ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
3-Aug	2832 Powder Pt	0	0	0	0	12	6.9	0.5	177	0.2	372	0.58	0.267
9-Aug	2329 Chain Way	0	0	0	0	13	7.1	0.13	172	0.2	360		
16-Aug	2940 Fairwinds	0	0	0	0	17	6.8	0.17	173	0.2	363		
23-Aug	2832 Powder Pt			0	0	12	7	0.23	175	0.2	367		
30-Aug	2329 Chain Way			0	0	13	7	0.15	173	0.2	363		
	Average	0	0	0	0	13.4	7.0	0.24	174.0	0.2	365.0	0.58	0.267
	Maximum	0	0	0	0	17	7.1	0.5	177	0.2	372	0.58	0.267
	Minimum	0	0	0	0	12	6.8	0.13	172	0.2	360	0.58	0.267

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Date Sep-05	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp °C	pH	Cl ₂ ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
7-Sep	2940 Fairwinds			0	0	15	7	0.19	172	0.2	361	0.18	0.143
13-Sep	2329 Chain			0	0	13	7	0.16	171	0.2	358		
20-Sep	2832 Powder Pt			0	0	12	7	0.14	172	0.2	360		
27-Sep	2940 Fairwinds			0	0	14	6.9	0.06	173	0.2	363		
Average		#DIV/0!	#DIV/0!	0	0	13.5	7.0	0.14	172.0	0.2	360.5	0.18	0.143
Maximum		0	0	0	0	15	7	0.19	173	0.2	363	0.18	0.143
Minimum		0	0	0	0	12	6.9	0.06	171	0.2	358	0.18	0.143

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4-Oct	2329 Chain			0	0	11	7	0.08	170	0.2	358	0.33	0.211
12-Oct	2832 Powder Pt			0	0	12	6.9	0.24	166	0.2	348		
18-Oct	2940 Fairwinds			0	0	12	7	0.05	161	0.2	338		
25-Oct	2329 Chain			0	0	15	6.8	0.09	170	0.2	358		
	Average			0	0	12.5	6.9	0.12	166.8	0.2	350.5	0.33	0.211
	Maximum			0	0	15	7	0.24	170	0.2	358	0.33	0.211
	Minimum			0	0	11	6.8	0.05	161	0.2	338	0.33	0.211

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1-Nov	2832 Powder Pt	0	0	0	0	11	6.8	0.15	166	0.2	352	0.21	0.14
8-Nov	2940 Fairwinds	0	0	0	0	10	7.1	0.09	169	0.2	355		
15-Nov	2329 Chain	0	0	0	0	9	7.3	0.08	171	0.2	360		
22-Nov	2832 Powder Pt			0	0	9	6.8	0.12	170	0.2	359		
29-Nov	2940 Fairwinds			0	0	9	6.9	0.19	170	0.2	361		
	Average	0	0	0	0	9.6	7.0	0.13	169.2	0.2	357.4	0.21	0.14
	Maximum	0	0	0	0	11	7.3	0.19	171	0.2	361	0.21	0.14
	Minimum	0	0	0	0	9	6.8	0.08	166	0.2	352	0.21	0.14

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Dec-05													
06-Dec	2832 Powder Pt	0	0	0	0	9	7.0	0.14	172	0.2	363	0.6	0.26
13-Dec	2940 Fairwinds Dr	0	0	0	0	10	6.9	0.11	171	0.2	361		
20-Dec	2329 Chain					8	7.2	0.22	168	0.2	356		
	Average	0	0	0	0	9.0	7.0	0.16	170.3	0.2	360.0	0.60	0.26
	Maximum	0	0	0	0	10	7.2	0.22	172	0.2	363	0.6	0.26
	Minimum	0	0	0	0	8	6.9	0.11	168	0.2	356	0.6	0.26

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