

**Regional District of Nanaimo - Utilities Department**

**Madrona Water Analysis - Monthly Report**

<b>Date</b>	<b>Sample Location (Address)</b>	<b>Fecal Coli * Health Dep</b>	<b>Total Coli * Health Dep</b>	<b>Total Coli RDN</b>	<b>E Coli RDN</b>	<b>Temp ° C</b>	<b>pH</b>	<b>Cl<sub>2</sub> ppm</b>	<b>TDS ppm</b>	<b>Sal %</b>	<b>Cond uS/cm</b>	<b>Fe ppm</b>	<b>Mn ppm</b>
5-Jan	1566 Arbutus	0	0	0	0	9	7.5	0.04	161	0.2	340		
18-Jan	1825 NW Bay Rd	0	0	0	0	8	7.1	0.03	163	0.2	346	0.01	0.011
25-Jan	1358 Madrona	0	0	0	0	8	6.9	0.02	163	0.2	345		
	<b>Average</b>	0	0	0	0	8.3	7.2	0.03	162.3	0.2	343.7	0.01	0.011
	<b>Maximum</b>	0	0	0	0	9	7.5	0.04	163	0.2	346	0.01	0.011
	<b>Minimum</b>	0	0	0	0	8	6.9	0.02	161	0.2	340	0.01	0.011

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	1566 Arbutus	0	0	0	0	8	7.1	0.02	162	0.2	346	0.05	0.032
8-Feb	1825 NW Bay Rd	0	0	0	0	8	6.9	0.02	160	0.2	337		
15-Feb	1358 Madrona	0	0	0	0	7	7	0.02	165	0.2	353		
22-Feb	1566 Arbutus			0	0	7	7.1	0.04	161	0.2	343		
	<b>Average</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7.5</b>	<b>7.0</b>	<b>0.03</b>	<b>162.0</b>	<b>0.2</b>	<b>344.8</b>	<b>0.05</b>	<b>0.032</b>
	<b>Maximum</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>7.1</b>	<b>0.04</b>	<b>165</b>	<b>0.2</b>	<b>353</b>	<b>0.05</b>	<b>0.032</b>
	<b>Minimum</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>6.9</b>	<b>0.02</b>	<b>160</b>	<b>0.2</b>	<b>337</b>	<b>0.05</b>	<b>0.032</b>

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1-Mar	1825 NW Bay Rd	0	0	0	0	8	7.3	0.05	161	0.2	340	0.01	0.009
8-Mar	1566 Arbutus Dr	0	0			8	7.6	0.04	161	0.2	338		
15-Mar	1358 Madrona Dr	0	0	0	0	9	7.3	0.03	169	0.2	356		
	<b>Average</b>	0	0	0	0	8.3	7.4	0.04	163.7	0.2	344.7	0.01	0.009
	<b>Maximum</b>	0	0	0	0	9	7.6	0.05	169	0.2	356	0.01	0.009
	<b>Minimum</b>	0	0	0	0	8	7.3	0.03	161	0.2	338	0.01	0.009

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3-May	1825 NW Bay	0	0	0	0	11	7.5	0.04	159	0.2	333	0.03	0.021
10-May	1358 Madrona	0	0	0	0	12	7	0.02	167	0.2	350		
17-May	1566 Arbutus	0	0	0	0	13	7.2	0.02	162	0.2	341		
25-May	1825 NW Bay			1	0	13	6.9	0.03	120	0.1	252		
31-May	1566 Arbutus			0	0	13	6.9	0.03	35	0	74.3		
	<b>Average</b>	0	0	0.2	0	12.4	7.1	0.03	128.6	0.1	270.1	0.03	0.021
	<b>Maximum</b>	0	0	1	0	13	7.5	0.04	167	0.2	350	0.03	0.021
	<b>Minimum</b>	0	0	0	0	11	6.9	0.02	35	0	74.3	0.03	0.021

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**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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7-Jun	1825 NW Bay	0	0	0	0	13	7.1	0.09	163	0.2	342	0.21	0.124
14-Jun	1358 Madrona	0	0	0	0	14	6.8	0.03	44	0	94.4		
21-Jun	1566 Arbutus	0	0	0	0	14	6.7	0.05	40	0	83.9		
28-Jun	1825 NW Bay			1	0	14	7.2	0.05	133	0.1	281		
	<b>Average</b>	0	0	0.25	0	13.8	7.0	0.06	95.0	0.1	200.3	0.21	0.124
	<b>Maximum</b>	0	0	1	0	14	7.2	0.09	163	0.2	342	0.21	0.124
	<b>Minimum</b>	0	0	0	0	13	6.7	0.03	40	0	83.9	0.21	0.124

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5-Jul	1358 Madrona	0	0	0	0	16	7	0.04	51	0.1	108.7	0.06	0.004
12-Jul	1566 Arbutus	0	0	0	0	16	6.5	0.06	42	0	88		
19-Jul	1825 NW Bay	0	6	2	0	18	6.9	0.03	49	0	104.4		
26-Jul	1358 Madrona			0	0	17	6.8	0.04	54	0.1	113.9		
	<b>Average</b>	0	2	0.5	0	16.8	6.8	0.04	49.0	0.1	103.8	0.06	0.004
	<b>Maximum</b>	0	6	2	0	18	7	0.06	54	0.1	113.9	0.06	0.004
	<b>Minimum</b>	0	0	0	0	16	6.5	0.03	42	0	88	0.06	0.004

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3-Aug	1566 Arbutus	0	0	1	0	19	6.8	0.04	53	0.1	111.4	0.12	0.014
9-Aug	1825 NW Bay Rd	0	0	BG	0	18	7	0.03	75	0.1	157.4		
16-Aug	1358 Madrona	0	0	0	0	18	6.8	0.04	50	0.1	105.7		
23-Aug	1566 Arbutus			0	0	18	6.8	0.08	47	0	100.5		
30-Aug	1819 NW Bay Rd			0	0	18	6.8	0.09	47	0	98.3		
	<b>Average</b>	0	0	0.25	0	18.2	6.8	0.06	54.4	0.1	114.7	0.12	0.014
	<b>Maximum</b>	0	0	1	0	19	7	0.09	75	0.1	157.4	0.12	0.014
	<b>Minimum</b>	0	0	0	0	18	6.8	0.03	47	0	98.3	0.12	0.014

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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 <sub>2</sub> ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
7-Sep	1358 Madrona			0	0	17	6.8	0.09	49	0	103	0.12	0.001
13-Sep	1566 Arbutus			0	0	17	6.9	0.09	47	0	99		
20-Sep	1819 NW Bay			0	0	17	6.8	0.04	52	0.1	110.5		
27-Sep	1358 Madrona			0	0	16	6.8	0.07	56	0.1	118		
<b>Average</b>		#DIV/0!	#DIV/0!	0	0	16.8	6.8	0.07	51.0	0.1	107.6	0.12	0.001
<b>Maximum</b>		0	0	0	0	17	6.9	0.09	56	0.1	118	0.12	0.001
<b>Minimum</b>		0	0	0	0	16	6.8	0.04	47	0	99	0.12	0.001

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4-Oct	1566 Arbutus			1	0	15	6.8	0.03	114	0.1	240	0.1	0.022
12-Oct	1819 NW Bay			0	0	12	7.5	0.04	150	0.1	315		
18-Oct	1358 Madrona			0	0	14	7.1	0.03	160	0.2	335		
25-Oct	1566 Arbutus			0	0	12	6.9	0.03	153	0.2	324		
	<b>Average</b>			0.25	0	13.3	7.1	0.03	144.3	0.2	303.5	0.10	0.022
	<b>Maximum</b>			1	0	15	7.5	0.04	160	0.2	335	0.1	0.022
	<b>Minimum</b>			0	0	12	6.8	0.03	114	0.1	240	0.1	0.022

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1-Nov	1819 NW Bay	0	0	0	0	10	7.1	0.06	154	0.2	326	0.02	0.015
8-Nov	1358 Madrona	0	0	0	0	13	7.3	0.03	160	0.2	337		
15-Nov	1566 Arbutus	0	0	0	0	10	7.4	0.06	152	0.2	323		
22-Nov	1819 NW Bay			0	0	9	7.1	0.03	150	0.1	317		
29-Nov	1358 Madrona			0	0	10	7.3	0.05	156	0.2	331		
	<b>Average</b>	0	0	0	0	10.4	7.2	0.05	154.4	0.2	326.8	0.02	0.015
	<b>Maximum</b>	0	0	0	0	13	7.4	0.06	160	0.2	337	0.02	0.015
	<b>Minimum</b>	0	0	0	0	9	7.1	0.03	150	0.1	317	0.02	0.015

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06-Dec	1819 NW Bay Rd	0	0	0	0	9	7.1	0.14	165	0.2	351	0.69	0.223
13-Dec	1566 Arbutus	0	0	0	0	9	7.1	0.03	154	0.2	325		
20-Dec	1358 Madrona					9	7.4	0.02	160	0.2	338		
	<b>Average</b>	0	0	0	0	9.0	7.2	0.06	159.7	0.2	338.0	0.69	0.223
	<b>Maximum</b>	0	0	0	0	9	7.4	0.14	165	0.2	351	0.69	0.223
	<b>Minimum</b>	0	0	0	0	9	7.1	0.02	154	0.2	325	0.69	0.223

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