



Regional District of Nanaimo - Utilities Department

Madrona 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
Jan-07													
3-Jan	1819 NW Bay Rd	0	0	0	0	9	7.3	0.04	151	0.2	320	0.02	0.009
9-Jan	1566 Arbutus	0	0	0	0	8	7.1	0.06	152	0.2	322		
16-Jan	1358 Madrona Dr	0	0	0	0	7	7.2	0.02	156	0.2	330		
	Average	0	0	0	0	8.0	7.2	0.04	153.0	0.2	324.0	0.02	0.009
	Maximum	0	0	0	0	9	7.3	0.06	156	0.2	330	0.02	0.009
	Minimum	0	0	0	0	7	7.1	0.02	151	0.2	320	0.02	0.009

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

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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Feb-07													
6-Feb	1819 NW Bay Rd	0	0	0	0	8	7.4	0.08	145	0.1	308	0.01	0.008
13-Feb	1566 Arbutus Dr	0	0	0	0	8	7.4	0.02	150	0.1	317		
20-Feb	1358 Madrona Dr	0	0	0	0	8	7.4	0.02	153	0.2	323		
27-Feb	1819 NW Bay Rd			0	0	8	7.2	0.07	150	0.1	318		
	Average	0	0	0	0	8.0	7.4	0.05	149.5	0.1	316.5	0.01	0.008
	Maximum	0	0	0	0	8	7.4	0.08	153	0.2	323	0.01	0.008
	Minimum	0	0	0	0	8	7.2	0.02	145	0.1	308	0.01	0.008

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6-Mar	1358 Madrona	0	0				7.4	0	153	0.2	320	0.01	0.008
13-Mar	1819 NW Bay Rd	0	0	0	0	8	7.4	0.04	150	0.1	318		
20-Mar	1566 Arbutus Dr	0	0	0	0	8	7.6	0.03	150	0.1	319		
27-Mar	1358 Madrona			0	0	9	7.9	0.04	153	0.2	323		
Average		0	0	0	0	8.3	7.6	0.03	151.5	0.2	320.0	0.01	0.008
Maximum		0	0	0	0	9	7.9	0.04	153	0.2	323	0.01	0.008
Minimum		0	0	0	0	8	7.4	0	150	0.1	318	0.01	0.008

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Date Apr-07	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-Apr	1819 NW Bay	0	0	0	0	9	7.2	0.03	152	0.2	320	0.01	0.012
11-Apr	1358 Madrona	0	0	0	0	9	7.5	0.05	156	0.2	329		
17-Apr	1566 Arbutus	0	0	0	0		7.6	0.09	156	0.2	327		
24-Apr	1819 NW Bay			0	0	9	7.7	0.03	150	0.1	316		
	Average	0	0	0	0	9.0	7.5	0.05	153.5	0.2	323.0	0.01	0.012
	Maximum	0	0	0	0	9	7.7	0.09	156	0.2	329	0.01	0.012
	Minimum	0	0	0	0	9	7.2	0.03	150	0.1	316	0.01	0.012

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1-May	1819 NW Bay	0	0	0	0	10	7.9	0.03	150	0.1	314	0.01	0.009
8-May	1566 Arbutus	0	0	0	0	12	7.3	0.05	154	0.2	322		
15-May	1358 Madrona	0	0	0	0	12	7.5	0.03	156	0.2	328		
23-May	1819 NW Bay			0	0	12	7.1	0.06	45	0	94		
29-May	1566 Arbutus			0	0	13	7.1	0.04	28	0	58		
	Average	0	0	0	0	11.8	7.4	0.04	106.6	0.1	223.2	0.01	0.009
	Maximum	0	0	0	0	13	7.9	0.06	156	0.2	328	0.01	0.009
	Minimum	0	0	0	0	10	7.1	0.03	28	0	58	0.01	0.009

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5-Jun	1819 NW Bay Rd	0	0	0	0	14	7	0.06	66	0.1	140	0.02	0.003
12-Jun	1358 Madrona Dr	0	0	0	0	14	6.9	0	38	0	79		
19-Jun	1566 Arbutus	0	0	0	0		6.7	0.02	33	0	69.1		
26-Jun	1819 NW Bay Rd			0	0		7.2	0.03	150	0.1	314		
	Average	0	0	0	0	14.0	7.0	0.03	71.8	0.1	150.5	0.02	0.003
	Maximum	0	0	0	0	14	7.2	0.06	150	0.1	314	0.02	0.003
	Minimum	0	0	0	0	14	6.7	0	33	0	69.1	0.02	0.003

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Date Jul-07	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
4-Jul	1819 NW Bay Rd	0	0	0	0	14	7.4	0.02	151	0.1	316	0.01	0.004
10-Jul	1566 Arbutus Dr	0	0	0	0	14	7	0.06	97	0.1	264		
17-Jul	1358 Madrona Dr	0	0	0	0	17	6.8	0.01	46	0	97		
25-Jul	1819 NW Bay Rd			0	0	15	7	0.04	150	0.1	315		
	Average	0	0	0	0	15.0	7.1	0.03	111.0	0.1	248.0	0.01	0.004
	Maximum	0	0	0	0	17	7.4	0.06	151	0.1	316	0.01	0.004
	Minimum	0	0	0	0	14	6.8	0.01	46	0	97	0.01	0.004

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Date Aug-07	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
8-Aug	1819 NW Bay Rd	0	0	0	0	15	7.1	0.06	148	0.1	310	0.02	0.015
14-Aug	1566 Arbutus Dr	0	0	0	0	18	6.9	0.05	52	0.1	109		
21-Aug	1358 Madrona	0	0	0	0		7	0.02	67	0.1	140.2		
28-Aug	1819 NW Bay Rd			0	0	15	7.2	0.02	151	0.1	317		
	Average	0	0	0	0	16.0	7.1	0.04	104.5	0.1	219.1	0.02	0.015
	Maximum	0	0	0	0	18	7.2	0.06	151	0.1	317	0.02	0.015
	Minimum	0	0	0	0	15	6.9	0.02	52	0.1	109	0.02	0.015

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5-Sep	1358 Madrona	0	0	0	0	17	6.9	0.01	72	0.1	151.9	0.05	0.029
11-Sep	1819 NW Bay Rd	0	0	0	0	15	7.2	0.02	150	0.1	315		
18-Sep	1566 Arbutus	0	0					0.05					
25-Sep	1819 NW Bay Rd			0	0	15	7.4	0.03	150	0.1	316		
	Average	0	0	0	0	15.7	7.2	0.03	124.0	0.1	261.0	0.05	0.029
	Maximum	0	0	0	0	17	7.4	0.05	150	0.1	316	0.05	0.029
	Minimum	0	0	0	0	15	6.9	0.01	72	0.1	151.9	0.05	0.029

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2-Oct	1819 NW Bay Rd	0	0	BG	0	14	7.2	0.04	151	0.1	317	0.03	0.003
10-Oct	1566 Arbutus Dr	0	0	0	0	14	6.9	0.02	116	0.1	243		
16-Oct	1358 Madrona Dr	0	0	0	0	14	7.2	0.03	140	0.1	293		
30-Oct	1819 NW Bay Rd			0	0	11	7.4	0.04	149	0.1	315		
	Average	0	0	0	0	13.3	7.2	0.03	139.0	0.1	292.0	0.03	0.003
	Maximum	0	0	0	0	14	7.4	0.04	151	0.1	317	0.03	0.003
	Minimum	0	0	0	0	11	6.9	0.02	116	0.1	243	0.03	0.003

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BG - Background bacteria



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6-Nov	1819 NW Bay Rd	0	0	0	0	11	7	0.04	150	0.1	318	0.01	0.01
14-Nov	1358 Madrona Dr	0	0	0	0	12	7.3	0.06	154	0.2	327		
20-Nov	1566 Arbutus Dr	0	0	0	0	10	7.1	0.07	152	0.2	323		
27-Nov	1819 NW Bay Rd			0	0	9	7.1	0.04	151	0.2	320		
	Average	0	0	0	0	10.5	7.1	0.05	151.8	0.2	322.0	0.01	0.01
	Maximum	0	0	0	0	12	7.3	0.07	154	0.2	327	0.01	0.01
	Minimum	0	0	0	0	9	7	0.04	150	0.1	318	0.01	0.01

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Date Dec-07	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
4-Dec	1358 Madrona	0	0	0	0	10	7.1	0.02	153	0.2	324	0.04	0.014
11-Dec	1819 NW Bay	0	0	0	0	9	7	0.05	150	0.1	320		
18-Dec	1566 Arbutus	0	0	0	0	8	7.1	0.02	151	0.2	320		
	Average	0	0	0	0	9.0	7.1	0.03	151.3	0.2	321.3	0.04	0.014
	Maximum	0	0	0	0	10	7.1	0.05	153	0.2	324	0.04	0.014
	Minimum	0	0	0	0	8	7	0.02	150	0.1	320	0.04	0.014

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