Nanoose Bay Peninsula Distribution Water Analysis
1566 Arbutus Drive (°Bulk Water online, **Sample collected at 1358 Madrona Drive)

CDWG=Canadian Drinking Water Guidelines
OG= Operational Guidance Value

MAC=Maximum Acceptable Concentration
AO= Asthetic Objective.

Red font indicates non-compliance with Canadian Drinking Water Guidelines

	Units	CDWG		2000	June 28 2001**	March 6 2002	2003	2004	April 20 2005	May 17 2006°	May 22 2007°	May 27 2008	May 13 2009	May 18 2010	May 25 2011	May 15 2012	June 5 2013°	
Miscellaneous Inorganics																		
Fluoride	mg/L	1.5	MAC	0.07	0.09	0.16	0.1	<1.0	<1.0	<0.1	<1.0	<1.0	<1.0	<1.0	<1.0	0.1	<0.05	
Alkalinity (total as $CaCO_3$)	mg/L			141	131	132	136	140	140	19	21	140	140	150	140	150	60	
Anions																		
Dissolved Sulphate	mg/L	500	AO	5.9	12.4	2.52	3.33	10.5	2.6	1.3	<2.0	6.6	8	7	6.8	10.7	4.4	
Dissolved Chloride	mg/L	250	AO	14.8	15.5	27.82	24.7	23.3	22.9	4.2	4.4	16.7	14.5	11.1	13.4	10.5	7.1	
Nitrite	mg/L	1	MAC	<0.002	<0.002	<0.006	<0.01	<0.1	<0.1	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.05	
Miscellaneous																		
Apparent Colour	Colour Unit			7	4	4	9	16	6	7	11	6	<5	20	10	16	<5	
Nutrients																		
Total Ammonia	mg/L														<0.01	<0.01	0.02	
Physical Properties																		
Conductivity	µS/cm			300	321	324	320	357	356	55.6	62.5	339	338	335	326	334	144	
pH	pH	7.0:10.5	AO	8.02	7.92	8.35	8.28	8.1	7.9	6.3	6.8	7.76	8.1	8.1	8.2	8.1	7.4	
TDS	mg/L	500	AO	191	180	173	173	233	230	53	38	214	226	224	194	188	104	
Turbidity	NTU			0.11	<0.05	0.52	0.07	0.5	<0.5	0.6	<0.5	<0.5	<0.5	0.5	0.5	0.7	<0.5	
Microbiological Parameters																		
E.coli	MPN/100mL	<1	MAC							<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Total Coliforms	MPN/100mL	<1	MAC	<2	<1			<1	<1	<1	12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Calculated Parameters																		
Total Hardness ($CaCO_3$)	mg/L			77	124.4	29.5	37.3	51	62	21	27	110	130	110	85	130	57	
Nitrate	mg/L	10	MAC	0.18	<0.004	<0.002	0.19	0.2	<0.1	0.03	<0.1	0.7	0.9	0.2	<0.1	0.1	0.15	
Elements																		
Total Mercury	mg/L	0.001	MAC	<0.05	<0.0001	<0.0001	<0.0002	<0.0002	<0.0002	<0.0001	<0.0001	<0.01	<0.01	<0.01	<0.00001	<0.00001	<0.00001	
Total Metals																		
Total Aluminum	mg/L	0.1	OG	0.083	0.043	0.046	0.006	0.007	0.008	0.024	0.03	<0.05	<0.005	0.013	<0.005	<0.005	0.011	
Total Antimony	mg/L	0.006	MAC		<0.006	<0.006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Total Arsenic	mg/L	0.01	MAC	0.005	<0.01	0.01	0.0093	0.0093	0.0069	0.0002	<0.0002	0.005	0.0044	0.0039	0.0054	0.0034	0.0014	
Total Barium	mg/L	1	MAC	0.012	0.014	0.0099	0.008	0.012	0.008	0.005	0.005	0.007	0.008	0.012	0.01	0.013	0.008	
Total Beryllium	mg/L															<0.00004	<0.00004	
Total Bismuth	mg/L															<0.001	<0.0010	
Total Boron	mg/L	5	MAC	0.09	0.047	0.187	0.175	0.167	0.13	0.006	0.008	0.05	0.078	0.072	0.11	0.053	0.027	
Total Cadmium	mg/L	0.005	MAC	<0.0002	<0.0006	<0.0006	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.0003	<0.00001	<0.00001	<0.00001	<0.00001	0.00002	
Total Chromium	mg/L	0.05	MAC	<0.001	<0.0009	<0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.003	0.0004	<0.0004	<0.0004	0.0004	<0.0004	
Total Cobalt	mg/L															0.00004	0.00005	
Total Copper	mg/L	1	AO	0.008	0.001	0.004	0.007	0.082	0.004	0.013	0.01	<0.005	0.008	0.008	0.005	0.011	0.009	
Total Iron	mg/L	0.3	AO	<0.05	0.032	0.066	<0.1	0.7	0.1	<0.1	<0.1	0.12	<0.01	<0.01	0.045	0.023	0.015	
Total Lead	mg/L	0.01	MAC	<0.001	<0.002	<0.002	0.0003	0.0049	0.0003	0.0002	0.0003	<0.0005	0.0003	0.0004	0.0003	0.0002	0.0003	
Total Manganese	mg/L	0.05	AO	0.038	0.0964	0.0154	0.017	0.101	0.055	0.006	<0.005	0.0788	0.0031	0.0557	0.033	0.063	0.0139	
Total Molybdenum	mg/L															0.0008	0.0006	
Total Nickel	mg/L												<0.001	<0.001	<0.001	<0.001	<0.001	
Total Selenium	mg/L	0.05	MAC	<0.002	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.003	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	
Total Silicon	mg/L															10.2	4.49	
Total Silver	mg/L												<0.00001	<0.00001	<0.00001	<0.00001	0.00007	
Total Strontium	mg/L															0.104	0.053	
Total Thallium	mg/L															<0.00001	0.00002	
Total Tin	mg/L															<0.0001	0.0005	
Total Titanium	mg/L															0.003	0.0026	
Total Uranium	mg/L	0.02	MAC	<.0005	<.06	<.02	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	
Total Vanadium	mg/L															0.0009	0.0009	
Total Zinc	mg/L	5	AO	<.005	0.0018	0.0053	0.002	0.006	0.007	0.006	0.015	<0.005	0.008	1	0.005	0.001	0.003	
Total Zirconium	mg/L																	
Total Calcium	mg/L			20.1	32.5	8.1	10	13.6	16	6.7	8.1	27.8	34.9	29.3	22	33.9	15.9	
Total Magnesium	mg/L			7.23	10.5	2.26	3	4.2	5.4	1	1.6	8.8	9.36	9.48	7.37	11.4	4.14	
Total Potassium	mg/L			1.21	1.1	1.7	1.7	1.8	2	<0.4	<0.4	1.5	1.2	1.2	1.5	1.4	0.57	
Total Sodium	mg/L	200	AO	33.3	11.5	66.9	61.5	59.8	53.3	2.3	2.5	26.5	28.8	27.9	37.5	20.6	10.3	
Total Sulphur	mg/L																	

Nanoose Bay Peninsula Distribution Water Analysis
1961 Harlequin Crescent

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	Units	CDWG		2002	2003	2004	April 20 2005	May 17 2006	May 22 2007	May 27 2008	May 13 2009	May 18 2010	May 25 2011	May 23 2012	June 5 2013°			
Miscellaneous Inorganics																		
Fluoride	mg/L	1.5	MAC	0.14	0.08	<1.0	<1.0	0.2	<1.0	<1.0	<1.0	<1.0	<1.0	0.14	<0.05			
Alkalinity (total as $CaCO_3$)	mg/L			144	150	150	150	150	150	150	150	150	150	140	50			
Anions																		
Dissolved Sulphate	mg/L	500	AO	12.07	23.65	22.8	15.5	14.9	15.3	15.4	21.2	18.6	14.1	10.1	3.9			
Dissolved Chloride	mg/L	250	AO	11.28	9.42	11.6	10.9	12.8	9	13.1	14.2	9.9	10.5	13	6.7			
Nitrite	mg/L	1	MAC	0.04	<0.01	<0.01	<0.1	<0.01	<0.1	<0.1	0.1	<0.1	<0.1	<0.05	<0.05			
Miscellaneous																		
Apparent Colour	Colour Unit			45	14	22	6	14	12	18	19	6	20	16	5			
Nutrients																		
Total Ammonia	mg/L												0.58	0.82	0.04			
Physical Properties																		
Conductivity	µS/cm			304	362	357	356	357	358	372	385	368	350	341	131			
pH	pH	7.0:10.5	AO	7.52	7.68	7.8	7.6	7.7	7.7	7.86	7.8	7.8	8	7.9	7.3			
TDS	mg/L	500	AO	193	187	233	210	233	206	238	260	236	214	218	92			
Turbidity	NTU			0.27	0.36	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5			
Microbiological Parameters																		
E.coli	MPN/100mL	<1	MAC					<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
Total Coliforms	MPN/100mL	<1	MAC			<1	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
Calculated Parameters																		
Total Hardness ($CaCO_3$)	mg/L			128	149.3	140	140	140	150	130	170	150	160	130	57			
Nitrate	mg/L	10	MAC	0.04	0.1	0.2	0.3	0.04	<0.1	<0.1	0.2	<0.1	<0.1	0.08	0.08			
Elements																		
Total Mercury	mg/L	0.001	MAC	<0.0001	<0.0002	<0.0002	<0.0002	<0.0001	<0.0001	<0.01	<0.01	<0.01	<0.00001	<0.00001	<0.00001			
Total Metals																		
Total Aluminum	mg/L	0.1	OG	<.009	0.006	<0.005	<0.005	<0.005	0.013	<0.05	<0.005	0.009	<0.005	<0.005	0.009			
Total Antimony	mg/L	0.006	MAC	<.006	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
Total Arsenic	mg/L	0.01	MAC	<.01	0.001	0.0011	0.001	0.0011	0.0009	0.004	0.0009	0.0013	0.0014	0.0014	0.0006			
Total Barium	mg/L	1	MAC	0.0121	0.033	0.015	0.023	0.028	0.03	0.02	0.032	0.026	0.013	0.01	0.007			
Total Beryllium	mg/L													<0.00004	<0.00004			
Total Bismuth	mg/L													<0.001	<0.0010			
Total Boron	mg/L	5	MAC	0.058	0.055	0.065	0.052	0.058	0.069	0.05	0.074	0.06	0.065	0.064	0.019			
Total Cadmium	mg/L	0.005	MAC	<0.0006	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.0003	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001			
Total Chromium	mg/L	0.05	MAC	<0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.003	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004			
Total Cobalt	mg/L													0.00004	<0.00002			
Total Copper	mg/L	1	AO	0.002	0.004	0.004	0.002	0.004	0.005	<0.005	0.004	0.003	0.003	0.002	0.005			
Total Iron	mg/L	0.3	AO	0.199	0.2	<0.1	<0.1	<0.1	<0.1	0.07	0.03	0.094	0.069	0.042	<0.010			
Total Lead	mg/L	0.01	MAC	<0.002	0.0002	0.0003	0.0003	0.0004	0.0005	<0.0005	0.0005	0.0002	0.0002	0.0002	0.0002			
Total Manganese	mg/L	0.05	AO	0.175	0.118	0.102	0.083	0.11	0.123	0.134	0.0997	0.0921	0.104	0.099	<0.0050			
Total Molybdenum	mg/L													0.0005	0.0002			
Total Nickel	mg/L										<0.001	<0.001	<0.001	<0.001	<0.001			
Total Selenium	mg/L	0.05	MAC	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.003	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006			
Total Silicon	mg/L													12.2	4.62			
Total Silver	mg/L										<0.00001	<0.00001	<0.00001	<0.00001	<0.00001			
Total Strontium	mg/L													0.132	0.058			
Total Thallium	mg/L													<0.00001	<0.00001			
Total Tin	mg/L													<0.0001	<0.0001			
Total Titanium	mg/L													0.004	0.0068			
Total Uranium	mg/L	0.02	MAC	<0.02	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004			
Total Vanadium	mg/L													0.0004	0.0005			
Total Zinc	mg/L	5	AO	0.0028	0.017	0.004	0.013	0.022	0.025	0.01	0.017	0.008	0.003	<0.001	0.004			
Total Zirconium	mg/L																	
Total Calcium	mg/L			32.1	45.3	35	41.1	40.7	44.6	37.6	51.8	44.3	32.8	33.2	15.8			
Total Magnesium	mg/L			11.6	8.8	11.6	9.5	8.2	9.5	9	9.66	9.05	10.9	11.1	4.27			
Total Potassium	mg/L			2.4	2	2.5	2	2.1	2.2	2	2.2	1.9	2.3	2.3	0.62			
Total Sodium	mg/L	200	AO	23.3	16.2	22.3	19	21.1	19.7	21.9	23.6	20.2	21.1	23.1	8.2			
Total Sulphur	mg/L																	

Nanoose Bay Peninsula Distribution Water Analysis
1270 Sea Dog Road

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	Units	CDWG		June 28 2001	May 10 2010	May 25 2011	May 15 2012	June 5 2013°										
Miscellaneous Inorganics																		
Fluoride	mg/L	1.5	MAC	0.15	<1.0	<1.0	0.16	<0.05										
Alkalinity (total as $CaCO_3$)	mg/L			145	150	150	160	48										
Anions																		
Dissolved Sulphate	mg/L	500	AO	15.4	14.2	13.7	15.2	3.9										
Dissolved Chloride	mg/L	250	AO	14.4	9.8	10.8	11.9	5.9										
Nitrite	mg/L	1	MAC	<0.002	<0.1	<0.1	<0.05	<0.05										
Miscellaneous																		
Apparent Colour	Colour Unit			27	<5	19	25	5										
Nutrients																		
Total Ammonia	mg/L					0.56	0.91	0.02										
Physical Properties																		
Conductivity	µS/cm			349	354	347	362	119										
pH	pH	7.0:10.5	AO	7.69	8	8	8	7.3										
TDS	mg/L	500	AO	200	236	210	210	92										
Turbidity	NTU			0.84	<0.5	0.6	1	<0.5										
Microbiological Parameters																		
E.coli	MPN/100mL	<1	MAC		<1.0	<1.0	<1.0	<1.0										
Total Coliforms	MPN/100mL	<1	MAC	<1.0	<1.0	<1.0	<1.0	<1.0										
Calculated Parameters																		
Total Hardness ($CaCO_3$)	mg/L			132.1	130	130	140	50										
Nitrate	mg/L	10	MAC	0.092	<0.1	<0.1	<0.05	<0.05										
Elements																		
Total Mercury	mg/L	0.001	MAC	<0.0001	<0.01	<0.00001	<0.00001	<0.00001										
Total Metals																		
Total Aluminum	mg/L	0.1	OG	0.014	0.009	<0.005	<0.005	0.01										
Total Antimony	mg/L	0.006	MAC	<0.006	<0.0002	<0.0002	<0.0002	<0.0002										
Total Arsenic	mg/L	0.01	MAC	<0.01	0.0014	0.0013	0.0017	0.0005										
Total Barium	mg/L	1	MAC	0.0169	0.014	0.014	0.016	0.006										
Total Beryllium	mg/L						<0.00004	<0.00004										
Total Bismuth	mg/L						<0.001	<0.0010										
Total Boron	mg/L	5	MAC	0.065	0.066	0.064	0.063	0.016										
Total Cadmium	mg/L	0.005	MAC	<0.0006	<0.00001	<0.00001	<0.00001	<0.00001										
Total Chromium	mg/L	0.05	MAC	<0.0009	<0.0004	<0.0004	<0.0004	<0.0004										
Total Cobalt	mg/L						0.00003	<0.00002										
Total Copper	mg/L	1	AO	0.002	0.005	0.002	<0.001	0.004										
Total Iron	mg/L	0.3	AO	0.507	0.044	0.07	0.357	0.027										
Total Lead	mg/L	0.01	MAC	<0.002	0.0003	0.0002	0.0001	0.0004										
Total Manganese	mg/L	0.05	AO	0.208	0.106	0.116	0.175	0.006										
Total Molybdenum	mg/L						0.0003	0.0002										
Total Nickel	mg/L				<0.001	<0.001	<0.001	<0.001										
Total Selenium	mg/L	0.05	MAC	<0.004	<0.0006	<0.0006	<0.0006	<0.0006										
Total Silicon	mg/L						12.1	4.08										
Total Silver	mg/L				<0.00001	<0.00001	<0.00001	<0.00001										
Total Strontium	mg/L						0.132	0.051										
Total Thallium	mg/L						<0.00001	<0.00001										
Total Tin	mg/L						<0.0001	<0.0001										
Total Titanium	mg/L						<0.001	0.0011										
Total Uranium	mg/L	0.02	MAC	<0.06	<0.0004	<0.0004	<0.0004	<0.0004										
Total Vanadium	mg/L						0.0004	0.0004										
Total Zinc	mg/L	5	AO	0.0029	0.002	0.003	<0.001	0.002										
Total Zirconium	mg/L																	
Total Calcium	mg/L			34.6	35.2	33	37.1	14										
Total Magnesium	mg/L			11.1	10.9	11	11.9	3.69										
Total Potassium	mg/L			2.2	2.3	2.2	2.4	0.49										
Total Sodium	mg/L	200	AO	20.1	23.6	21.4	22.6	7.42										
Total Sulphur	mg/L																	

Nanoose Bay Peninsula Distribution Water Analysis
2315 Ida Lane (°Bulk Water online)

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	Units	CDWG		June 28 2001	April 23 2003	2004	April 20 2005	May 17 2006	May 22 2007	May 27 2008	May 13 2009	May 18 2010	May 25 2011	May 15 2012	June 5 2013°			
Miscellaneous Inorganics																		
Fluoride	mg/L	1.5	MAC	0.17	0.11	<1.0	<1.0	0.2	<1.0	<1.0	<1.0	<1.0	<1.0	0.15	0.12			
Alkalinity (total as $CaCO_3$)	mg/L			145	147	140	150	160	310	140	150	150	140	140	130			
Anions																		
Dissolved Sulphate	mg/L	500	AO	1.48	1.81	11.9	<2	2.6	2.9	<2.0	5	5.8	4.7	5.5	5.4			
Dissolved Chloride	mg/L	250	AO	10.8	17.62	24.3	17.7	27.3	19.3	10.8	15.6	15.7	16.1	16.5	39.2			
Nitrite	mg/L	1	MAC	<0.002	<0.01	<0.1	<0.1	<0.01	<0.1	<0.1	0.1	<0.1	<0.1	<0.05	<0.05			
Miscellaneous																		
Apparent Colour	Colour Unit			8	11	8	6	18	14	20	12	12	25	15	6			
Nutrients																		
Total Ammonia	mg/L												0.52	0.75	0.03			
Physical Properties																		
Conductivity	µS/cm			361	361	374	345	380	352	324	341	349	340	347	371			
pH	pH	7.0:10.5	AO	7.7	7.78	7.7	7.7	7.8	7.7	7.97	8.1	7.9	8	8	7.7			
TDS	mg/L	500	AO	187	187	250	220	213	202	212	230	232	202	204	240			
Turbidity	NTU			0.11	0.16	0.6	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	0.7	0.9	<0.5			
Microbiological Parameters																		
E.coli	MPN/100mL	<1	MAC					<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
Total Coliforms	MPN/100mL	<1	MAC	<1		<1	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
Calculated Parameters																		
Total Hardness ($CaCO_3$)	mg/L			109.9	110.2	110	110	110	120	100	140	120	110	120	110			
Nitrate	mg/L	10	MAC	0.593	<0.01	<0.1	<0.1	0.04	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.05			
Elements																		
Total Mercury	mg/L	0.001	MAC	<0.0001	<0.0002	<0.0002	<0.0002	<0.0001	<0.0001	<0.01	<0.01	<0.01	<0.00001	<0.00001	<0.00001			
Total Metals																		
Total Aluminum	mg/L	0.1	OG	0.014	0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	0.015	<0.005	<0.005	<0.005			
Total Antimony	mg/L	0.006	MAC	<0.006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
Total Arsenic	mg/L	0.01	MAC	<0.01	0.0009	0.0012	0.0009	0.0013	0.0008	0.002	0.0018	0.001	0.0009	0.0011	0.0012			
Total Barium	mg/L	1	MAC	<0.0006	0.005	0.005	0.005	0.005	0.005	<0.005	0.007	0.006	0.006	0.006	0.006			
Total Beryllium	mg/L													<0.00004	<0.00004			
Total Bismuth	mg/L													<0.001	<0.0010			
Total Boron	mg/L	5	MAC	<0.008	0.08	0.084	0.066	0.07	0.078	0.05	0.063	0.068	0.071	0.074	0.068			
Total Cadmium	mg/L	0.005	MAC	<0.0006	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.0003	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001			
Total Chromium	mg/L	0.05	MAC	<0.0009	<0.0005	<0.0003	<0.0005	<0.0005	<0.0005	<0.003	<0.0004	0.0004	<0.0004	0.0004	<0.0004			
Total Cobalt	mg/L													0.00004	0.00002			
Total Copper	mg/L	1	AO	0.002	0.002	0.001	0.002	0.005	0.002	<0.005	0.001	0.003	0.002	0.003	0.005			
Total Iron	mg/L	0.3	AO	0.092	0.2	<0.1	0.2	<0.1	<0.1	0.35	0.19	0.046	0.082	0.073	0.099			
Total Lead	mg/L	0.01	MAC	<0.002	0.0003	0.0001	0.0003	0.0001	0.0001	<0.0005	0.0002	0.0002	0.0003	<0.0001	0.0002			
Total Manganese	mg/L	0.05	AO	0.13	0.174	0.142	0.15	0.087	0.099	0.208	0.136	0.0912	0.103	0.11	0.0167			
Total Molybdenum	mg/L													0.0002	0.0002			
Total Nickel	mg/L										<0.001	<0.001	<0.001	<0.001	<0.001			
Total Selenium	mg/L	0.05	MAC	<0.004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.003	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006			
Total Silicon	mg/L													13.9	13.3			
Total Silver	mg/L										<0.00001	<0.00001	<0.00001	<0.00001	<0.00001			
Total Strontium	mg/L													0.109	0.115			
Total Thallium	mg/L													<0.00001	<0.00001			
Total Tin	mg/L													0.0002	<0.0001			
Total Titanium	mg/L													0.002	0.0041			
Total Uranium	mg/L	0.02	MAC	<0.06	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004			
Total Vanadium	mg/L													0.0006	0.0006			
Total Zinc	mg/L	5	AO	0.0018	0.003	0.004	0.006	0.005	0.009	<0.005	0.006	0.003	0.003	0.002	0.004			
Total Zirconium	mg/L																	
Total Calcium	mg/L			27.5	27.3	28.9	27.8	28.6	30.6	25.5	35.8	31.2	28.6	32.8	29.5			
Total Magnesium	mg/L			10	10.2	10.3	10.3	9.7	10.8	8.9	11.3	9.82	9.51	10.1	9.36			
Total Potassium	mg/L			2.3	2.7	2.6	2	2.7	2.6	2.3	2.3	2.4	2.4	2.6	2.69			
Total Sodium	mg/L	200	AO	30.7	28.9	35.4	29	34.9	31.3	23.5	26.9	26.7	25.8	27	42.2			
Total Sulphur	mg/L																	

Nanoose Bay Peninsula Distribution Water Analysis
3500 Fairwinds Drive (*Sample collected at 3541 Shelby Lane)

CDWG=Canadian Drinking Water Guidelines
OG= Operational Guidance Value

MAC=Maximum Acceptable Concentration
AO= Asthetic Objective.

Red font indicates non-compliance with Canadian Drinking Water Guidelines

	Units	CDWG		April 14 2000	June 28 2001*	March 6 2002	April 23 2003	2004	April 20 2005	May 17 2006	May 22 2007	May 27 2008	May 13 2009	May 18 2010	May 25 2011	May 15 2012	June 5 2013°	
Miscellaneous Inorganics																		
Fluoride	mg/L	1.5	MAC	0.12	0.17	0.19	0.12	<1.0	<1.0	0.2	<1.0	<1.0	<1.0	<1.0	<1.0	0.16	0.16	
Alkalinity (total as $CaCO_3$)	mg/L			151	138	138	142	140	150	150	150	140	140	140	150	140	140	
Anions																		
Dissolved Sulphate	mg/L	500	AO	0.5	1.26	0.91	1.36	16.8	<2	2.6	2.9	3.4	4.5	4.6	4.1	4.2	5.7	
Dissolved Chloride	mg/L	250	AO	12.5	21.9	21.52	17.16	25.6	27.9	29.4	20.6	28.7	35.6	20.1	20.9	23.2	43.9	
Nitrite	mg/L	1	MAC	0.068	0.309	0.03	<0.01	<0.1	<0.1	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.05	
Miscellaneous																		
Apparent Colour	Colour Unit			15	12	13	10	24	20	28	19	24	55	19	26	36	6	
Nutrients																		
Total Ammonia	mg/L														<0.01	0.11	0.02	
Physical Properties																		
Conductivity	µS/cm			291	352	327	355	376	380	386	352	380	394	354	348	353	401	
pH	pH	7.0:10.5	AO	7.35	7.63	7.53	7.58	7.8	7.7	7.7	7.4	7.86	7.8	7.7	7.9	7.8	7.7	
TDS	mg/L	500	AO	211	193	193	187	210	200	260	200	250	258	234	218	218	262	
Turbidity	NTU			1.1	0.15	0.4	0.38	0.9	1	0.9	<0.5	1.2	1.5	0.9	1.1	0.9	<0.5	
Microbiological Parameters																		
E.coli	MPN/100mL	<1	MAC							<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Total Coliforms	MPN/100mL	<1	MAC	<1	<1			<1	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Calculated Parameters																		
Total Hardness ($CaCO_3$)	mg/L			88	109.8	108	110.4	110	110	110	120	100	120	120	110	120	110	
Nitrate	mg/L	10	MAC	0.33	0.053	0.03	0.17	<0.1	<0.1	0.02	<0.1	<0.1	0.1	<0.1	<0.1	<0.05	<0.05	
Elements																		
Total Mercury	mg/L	0.001	MAC		<0.0001	<0.0001	<0.0002	<0.0002	<0.0002	<0.0001	<0.0001	<0.01	<0.01	<0.01	<0.00001	<0.00001	<0.00001	
Total Metals																		
Total Aluminum	mg/L	0.1	OG		0.015	<.009	0.006	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	0.01	<0.005	<0.005	<0.005	
Total Antimony	mg/L	0.006	MAC		<.006	<.006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Total Arsenic	mg/L	0.01	MAC	0.001	<.01	<.01	0.0009	0.0015	0.001	0.0014	0.0009	<0.001	0.0013	0.001	0.001	0.001	0.0013	
Total Barium	mg/L	1	MAC	0.005	0.0049	0.0079	0.006	0.007	0.007	0.007	0.007	0.006	0.007	0.007	0.008	0.007	0.005	
Total Beryllium	mg/L															<0.00004	<0.00004	
Total Bismuth	mg/L															<0.001	<0.0010	
Total Boron	mg/L	5	MAC	0.1	0.071	0.074	0.081	0.085	0.07	0.07	0.075	0.06	0.071	0.071	0.072	0.07	0.078	
Total Cadmium	mg/L	0.005	MAC		<0.0006	<0.0006	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.0003	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Total Chromium	mg/L	0.05	MAC		<0.009	<0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.003	<0.0004	0.0005	<0.0004	0.0004	<0.0004	
Total Cobalt	mg/L															0.00003	0.00003	
Total Copper	mg/L	1	AO		0.002	0.003	0.005	0.006	0.006	0.004	0.003	<0.005	0.002	0.004	0.003	0.002	0.008	
Total Iron	mg/L	0.3	AO	0.17	0.107	0.686	0.3	0.5	0.5	0.5	0.6	0.51	0.47	0.556	0.64	0.52	0.057	
Total Lead	mg/L	0.01	MAC		<0.002	0.003	0.0004	0.0003	0.0005	0.0001	0.0001	<0.0005	0.0001	0.0001	0.0002	<0.0001	0.0002	
Total Manganese	mg/L	0.05	AO	0.11	0.0796	0.259	0.101	0.186	0.19	0.182	0.224	0.22	0.228	0.209	0.197	0.163	0.0176	
Total Molybdenum	mg/L															<0.0001	0.0002	
Total Nickel	mg/L												<0.001	<0.001	<0.001	<0.001	<0.001	
Total Selenium	mg/L	0.05	MAC		0.013	<.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	<0.003	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	
Total Silicon	mg/L															14.3	14.4	
Total Silver	mg/L												<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Total Strontium	mg/L															0.107	0.125	
Total Thallium	mg/L															<0.00001	<0.00001	
Total Tin	mg/L															<0.0001	<0.0001	
Total Titanium	mg/L															0.002	0.0029	
Total Uranium	mg/L	0.02	MAC		<.06	<.02	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	
Total Vanadium	mg/L															0.0006	0.0006	
Total Zinc	mg/L	5	AO	0.009	0.0037	0.0046	0.007	0.007	0.006	0.006	0.01	0.007	0.006	0.003	0.004	0.001	0.006	
Total Zirconium	mg/L																	
Total Calcium	mg/L				27.3	27.4	26.9	28.1	28.1	26.9	29.5	25	31.2	29.2	27.4	29.6	28.5	
Total Magnesium	mg/L			9.24	10.1	9.61	10.5	10.4	10.6	9.5	10.8	9.5	10.9	10.5	10.3	10.6	10.6	
Total Potassium	mg/L				2.4	2.6	2.5	2.6	2	2.6	2.5	2.4	2.7	2.6	2.5	2.5	2.76	
Total Sodium	mg/L	200	AO		29.8	31	28.6	36	36	34.8	31.6	35	40.7	31.6	29.6	31	46.2	
Total Sulphur	mg/L																	

Nanoose Bay Peninsula Distribution Water Analysis
3383 Redden Road (~Sample Collected at 3429 Redden Road)

CDWG=Canadian Drinking Water Guidelines
OG= Operational Guidance Value

MAC=Maximum Acceptable Concentration
AO= Asthetic Objective.

Red font indicates non-compliance with Canadian Drinking Water Guidelines

	Units	CDWG		May 18 2010~	May 25 2011	May 15 2012	June 5 2013°											
Miscellaneous Inorganics																		
Fluoride	mg/L	1.5	MAC	<1.0	<1.0	0.16	0.13											
Alkalinity (total as $CaCO_3$)	mg/L			140	140	140	140											
Anions																		
Dissolved Sulphate	mg/L	500	AO	4.5	3.9	4	5.4											
Dissolved Chloride	mg/L	250	AO	20.7	21.8	23.2	42.5											
Nitrite	mg/L	1	MAC	<0.1	<0.1	<0.05	<0.05											
Miscellaneous																		
Apparent Colour	Colour Unit			7	21	81	8											
Nutrients																		
Total Ammonia	mg/L				<0.01	0.13	0.02											
Physical Properties																		
Conductivity	µS/cm			360	349	353	399											
pH	pH	7.0:10.5	AO	7.7	7.9	7.9	7.7											
TDS	mg/L	500	AO	224	210	212	252											
Turbidity	NTU			<0.5	0.6	2.2	<0.5											
Microbiological Parameters																		
E.coli	MPN/100mL	<1	MAC	<1.0	<1.0	<1.0	<1.0											
Total Coliforms	MPN/100mL	<1	MAC	<1.0	<1.0	<1.0	<1.0											
Calculated Parameters																		
Total Hardness ($CaCO_3$)	mg/L			120	110	120	120											
Nitrate	mg/L	10	MAC	<0.1	<0.1	<0.05	<0.05											
Elements																		
Total Mercury	mg/L	0.001	MAC	<0.01	<0.00001	<0.00001	<0.00001											
Total Metals																		
Total Aluminum	mg/L	0.1	OG	0.008	<0.005	<0.005	<0.005											
Total Antimony	mg/L	0.006	MAC	<0.0002	<0.0002	<0.0002	<0.0002											
Total Arsenic	mg/L	0.01	MAC	0.0008	0.0009	0.0013	0.0013											
Total Barium	mg/L	1	MAC	0.005	0.005	0.009	0.006											
Total Beryllium	mg/L					<0.00004	<0.00004											
Total Bismuth	mg/L					<0.001	<0.0010											
Total Boron	mg/L	5	MAC	0.063	0.07	0.069	0.077											
Total Cadmium	mg/L	0.005	MAC	<0.00001	<0.00001	<0.00001	<0.00001											
Total Chromium	mg/L	0.05	MAC	<0.0004	<0.0004	0.0005	<0.0004											
Total Cobalt	mg/L					0.00004	0.00012											
Total Copper	mg/L	1	AO	0.003	0.002	0.002	<0.001											
Total Iron	mg/L	0.3	AO	0.093	0.24	1.23	0.07											
Total Lead	mg/L	0.01	MAC	0.0001	0.0002	0.0002	<0.0001											
Total Manganese	mg/L	0.05	AO	0.044	0.071	0.354	0.0208											
Total Molybdenum	mg/L					<0.0001	0.0002											
Total Nickel	mg/L			<0.001	<0.001	<0.001	<0.001											
Total Selenium	mg/L	0.05	MAC	<0.0006	<0.0006	<0.0006	<0.0006											
Total Silicon	mg/L					14.6	14.6											
Total Silver	mg/L			<0.00001	<0.00001	<0.00001	<0.00001											
Total Strontium	mg/L					0.108	0.124											
Total Thallium	mg/L					<0.00001	<0.00001											
Total Tin	mg/L					<0.0001	0.0003											
Total Titanium	mg/L					0.004	0.0031											
Total Uranium	mg/L	0.02	MAC	<0.0004	<0.0004	<0.0004	<0.0004											
Total Vanadium	mg/L					0.0007	0.0006											
Total Zinc	mg/L	5	AO	0.004	0.003	0.003	<0.001											
Total Zirconium	mg/L																	
Total Calcium	mg/L			28.9	26.5	29.6	28.7											
Total Magnesium	mg/L			10.4	10	10.6	10.6											
Total Potassium	mg/L			2.5	2.5	2.6	2.76											
Total Sodium	mg/L	200	AO	31.8	29.5	31	46.8											
Total Sulphur	mg/L																	

Nanoose Bay Peninsula Distribution Water Analysis
2329 Chain Way (°Bulk Water online)

CDWG=Canadian Drinking Water Guidelines
OG= Operational Guidance Value

MAC=Maximum Acceptable Concentration
AO= Asthetic Objective.

Red font indicates non-compliance with Canadian Drinking Water Guidelines

	Units	CDWG		June 28 2001	2004	April 20 2005	May 17 2006	May 22 2007	May 27 2008	May 13 2009	May 18 2010	May 25 2011	May 23 2012	June 5 2013°				
Miscellaneous Inorganics																		
Fluoride	mg/L	1.5	MAC	0.17	<1.0	<1.0	0.2	<1.0	<1.0	<1.0	<1.0	<1.0	0.16	0.13				
Alkalinity (total as $CaCO_3$)	mg/L			137	140	150	150	51	140	140	140	140	140	140				
Anions																		
Dissolved Sulphate	mg/L	500	AO	1.27	9.4	<2	2.6	2.8	3.3	4	4.3	4.1	3.8	5.7				
Dissolved Chloride	mg/L	250	AO	20.5	23.4	2.8	27.9	19.4	22.9	22.9	20.1	17.1	15.5	46.5				
Nitrite	mg/L	1	MAC	<0.002	<0.1	<0.1	<0.01	<0.1	<0.1	<1.0	<0.1	<0.1	<0.05	<0.05				
Miscellaneous																		
Apparent Colour	Colour Unit			23	13	7	37	13	15	25	9	19	13	8				
Nutrients																		
Total Ammonia	mg/L											0.42	0.78	0.02				
Physical Properties																		
Conductivity	µS/cm			351	381	377	379	348	365	354	352	332	329	414				
pH	pH	7.0:10.5	AO	7.53	7.7	7.6	7.7	7.6	7.8	7.7	7.8	7.9	7.8	7.6				
TDS	mg/L	500	AO	187	220	210	220	202	238	242	222	206	216	262				
Turbidity	NTU			0.37	0.8	<0.5	0.9	<0.5	<0.5	0.7	<0.5	1	0.5	<0.5				
Microbiological Parameters																		
E.coli	MPN/100mL	<1	MAC				<1	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0				
Total Coliforms	MPN/100mL	<1	MAC	<1	<1	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0				
Calculated Parameters																		
Total Hardness ($CaCO_3$)	mg/L			108.3	110	120	110	120	110	120	120	110	120	110				
Nitrate	mg/L	10	MAC	0.041	<0.1	<0.1	0.06	<0.1	<0.1	<1.0	<0.1	<0.1	<0.05	<0.05				
Elements																		
Total Mercury	mg/L	0.001	MAC	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.01	<0.01	<0.01	<0.00001	<0.00001	<0.00001				
Total Metals																		
Total Aluminum	mg/L	0.1	OG	0.015	<0.005	<0.005	<0.005	<0.005	<0.05	0.005	0.011	<0.005	<0.005	<0.005				
Total Antimony	mg/L	0.006	MAC	0.007	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				
Total Arsenic	mg/L	0.01	MAC	<0.01	0.0019	0.0021	0.0014	0.001	<0.001	0.002	0.0014	0.0014	0.0013	0.0018				
Total Barium	mg/L	1	MAC	0.0087	0.006	0.006	0.009	0.008	0.005	0.007	0.006	0.006	0.002	0.005				
Total Beryllium	mg/L												<0.00004	<0.00004				
Total Bismuth	mg/L												<0.001	<0.0010				
Total Boron	mg/L	5	MAC	0.073	0.084	0.07	0.072	0.079	0.06	0.072	0.072	0.073	0.068	0.077				
Total Cadmium	mg/L	0.005	MAC	<0.0006	<0.0001	<0.00001	<0.00001	<0.00001	<0.0003	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001				
Total Chromium	mg/L	0.05	MAC	<0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.003	<0.0004	0.0004	<0.0004	0.0009	<0.0004				
Total Cobalt	mg/L												0.00005	<0.00002				
Total Copper	mg/L	1	AO	0.003	0.002	<0.001	0.002	0.002	<0.005	0.001	0.002	0.004	<0.001	0.002				
Total Iron	mg/L	0.3	AO	0.878	0.4	0.2	0.5	0.6	0.35	0.36	0.233	0.221	0.169	0.081				
Total Lead	mg/L	0.01	MAC	0.003	0.0003	0.0003	0.0001	0.0001	<0.0005	0.0001	0.0004	0.0002	<0.0001	0.0001				
Total Manganese	mg/L	0.05	AO	0.282	0.184	0.18	0.209	0.257	0.201	0.245	0.11	0.118	0.157	0.0212				
Total Molybdenum	mg/L												0.0003	0.0002				
Total Nickel	mg/L									<0.001	<0.001	<0.001	<0.001	<0.001				
Total Selenium	mg/L	0.05	MAC	0.009	<0.0002	<0.0002	<0.0002	<0.0002	<0.003	<0.00001		<0.0006	<0.0006	<0.0006				
Total Silicon	mg/L												14	14.7				
Total Silver	mg/L										0.00001	<0.00001	<0.00001	<0.00001				
Total Strontium	mg/L												0.113	0.124				
Total Thallium	mg/L												<0.00001	<0.00001				
Total Tin	mg/L												<0.0001	<0.0001				
Total Titanium	mg/L												<0.001	<0.0010				
Total Uranium	mg/L	0.02	MAC	<0.06	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004				
Total Vanadium	mg/L												0.0005	0.0006				
Total Zinc	mg/L	5	AO	0.0047	0.008	0.006	0.006	0.01	<0.005	0.007	0.003	0.005	<0.001	0.002				
Total Zirconium	mg/L																	
Total Calcium	mg/L			27	27.4	28.5	27.8	29.8	26	31.2	28.9	27	29.1	28.5				
Total Magnesium	mg/L			9.93	10.2	10.8	9.7	11	9.7	11	10.5	10.2	10.6	10.6				
Total Potassium	mg/L			2.3	2.6	3	2.7	2.6	2.4	<0.0006	2.4	2.5	2.4	2.84				
Total Sodium	mg/L	200	AO	29.3	35	35	34.4	31.7	32.4	31.2	29.6	27.3	26.4	47.4				
Total Sulphur	mg/L																	

Nanoose Bay Peninsula Distribution Water Analysis

Water Treatment Plant: 2480 Nanoose Road

Treated Water

CDWG=Canadian Drinking Water Guidelines
OG= Operational Guidance Value

MAC=Maximum Acceptable Concentration
AO= Asthetic Objective.

Red font indicates non-compliance with Canadian Drinking Water Guidelines

	Units	CDWG		October 31 2012	June 5 2013													
Miscellaneous Inorganics																		
Fluoride	mg/L	1.5	MAC	0.2	0.15													
Alkalinity (total as $CaCO_3$)	mg/L			180	140													
Anions																		
Dissolved Sulphate	mg/L	500	AO	5.8	5.6													
Dissolved Chloride	mg/L	250	AO	27.7	45.4													
Nitrite	mg/L	1	MAC	<0.05	<0.05													
Miscellaneous																		
Apparent Colour	Colour Unit			5	7													
Nutrients																		
Total Ammonia	mg/L			0.2	0.1													
Physical Properties																		
Conductivity	µS/cm			407	409													
pH	pH	7.0:10.5	AO	9.1	7.6													
TDS	mg/L	500	AO	258	266													
Turbidity	NTU			<0.5	<0.5													
Microbiological Parameters																		
E.coli	MPN/100mL	<1	MAC	<1.0	<1.0													
Total Coliforms	MPN/100mL	<1	MAC	<1.0	<1.0													
Calculated Parameters																		
Total Hardness ($CaCO_3$)	mg/L			150	120													
Nitrate	mg/L	10	MAC	<0.05	<0.05													
Elements																		
Total Mercury	mg/L	0.001	MAC	<0.0001	<0.00001													
Total Metals																		
Total Aluminum	mg/L	0.1	OG	0.077	<0.005													
Total Antimony	mg/L	0.006	MAC	<0.0001	<0.0002													
Total Arsenic	mg/L	0.01	MAC	0.0012	0.0014													
Total Barium	mg/L	1	MAC	0.00538	0.005													
Total Beryllium	mg/L			<0.00005	<0.00004													
Total Bismuth	mg/L			0.0001	<0.0010													
Total Boron	mg/L	5	MAC	0.073	0.083													
Total Cadmium	mg/L	0.005	MAC	0.00001	<0.00001													
Total Chromium	mg/L	0.05	MAC	<0.0005	<0.0004													
Total Cobalt	mg/L			<0.0001	0.00005													
Total Copper	mg/L	1	AO	0.0004	0.002													
Total Iron	mg/L	0.3	AO	0.032	0.09													
Total Lead	mg/L	0.01	MAC	<0.0001	<0.0001													
Total Manganese	mg/L	0.05	AO	0.0091	0.0258													
Total Molybdenum	mg/L			0.00031	0.0003													
Total Nickel	mg/L			0.0006	<0.001													
Total Selenium	mg/L	0.05	MAC	<0.0001	<0.0006													
Total Silicon	mg/L			15.6	14.9													
Total Silver	mg/L			<0.00001	<0.00001													
Total Strontium	mg/L			0.121	0.132													
Total Thallium	mg/L			<0.00001	<0.00001													
Total Tin	mg/L			<0.0001	<0.0001													
Total Titanium	mg/L			<0.0005	0.0029													
Total Uranium	mg/L	0.02	MAC	<0.00001	<0.0004													
Total Vanadium	mg/L			0.0012	0.0006													
Total Zinc	mg/L	5	AO	<0.0005	0.005													
Total Zirconium	mg/L																	
Total Calcium	mg/L			29	29.3													
Total Magnesium	mg/L			18.7	10.8													
Total Potassium	mg/L			2.6	3.03													
Total Sodium	mg/L	200	AO	35.3	48.2													
Total Sulphur	mg/L																	