REGIONAL DISTRICT OF NANAIMO

Melrose Terrace Distribution Water Analysis
3927 Melrose Road

CDWG=Canadian Drinking Water Guidelines
OG= Operational Guidance Value

MAC=Maximum Acceptable Concentration
AO= Asthetic Objective.

water SMART zero waste

Red font indicates non-compliance with Canadian Drinking Water Guidelines

	Units	CDWG		April 20 2005	May 17 2006	May 22 2007	May 26 2008	May 11 2009	May 19 2010	May 18 2011	May 16 2012	June 5 2013						
Miscellaneous Inorganics																		
Fluoride	mg/L	1.5	MAC	<1.0	<0.1	<1.0	<1.0	<1.0	<1.0	<1.0	0.05	<0.05						
Alkalinity (total as $CaCO_3$)	mg/L			73	90	81	80	75	87	93	92	86						
Anions																		
Dissolved Sulphate	mg/L	500	AO	<2	9.1	<2.0	<2.0	<2.0	<2.0	<2.0	1	1.2						
Dissolved Chloride	mg/L	250	AO	80.5	61.2	74.8	79.4	98.5	62	67.5	77	7						
Nitrite	mg/L	1	MAC	<0.1	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.05						
Miscellaneous																		
Apparent Colour	Colour Unit			20	13	15	6	<5	<5	<5	6	7						
Nutrients																		
Total Ammonia	mg/L										0.03	<0.01						
Physical Properties																		
Conductivity	µS/cm			443	388	350	438	480	393	397	451	447						
pH	pH	7.0:10.5	AO	6.8	6.9	7.8	6.98	7	7	7.1	7.1	6.9						
TDS	mg/L	500	AO	280	253	228	302	316	258	264	262	326						
Turbidity	NTU			<0.5	0.6	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0						
Calculated Parameters																		
Total Hardness ($CaCO_3$)	mg/L			130	120	140	130	140	130	120	150	150						
Nitrate	mg/L	10	MAC	<0.1	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.05						
Elements																		
Total Mercury	mg/L	0.001	MAC	<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	<0.005	<0.005	<0.005	<0.05	<0.005	0.011	<0.005	<0.005	<0.005						
Total Antimony	mg/L	0.006	MAC	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002						
Total Arsenic	mg/L	0.01	MAC	0.02	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002						
Total Barium	mg/L	1	MAC	0.02	0.023	0.024	0.02	0.023	0.025	0.025	0.026	0.032						
Total Beryllium	mg/L										<0.00004	<0.00004						
Total Bismuth	mg/L										<0.001	<0.0010						
Total Boron	mg/L	5	MAC	0.007	0.006	0.008	<0.02	0.029	0.014	0.006	0.008	0.006						
Total Cadmium	mg/L	0.005	MAC	<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	0.0007	<0.0005	<0.0005	<0.003	<0.0004	<0.0004	<0.0004	0.0007	0.0004						
Total Cobalt	mg/L										0.00004	<0.00002						
Total Copper	mg/L	1	AO	0.007	0.034	0.019	<0.005	0.008	0.004	0.004	0.004	0.003						
Total Iron	mg/L	0.3	AO	<0.1	0.4	0.4	0.27	0.04	0.191	0.172	0.121	0.061						
Total Lead	mg/L	0.01	MAC	0.0032	0.002	0.0015	<0.0005	0.0011	0.0004	0.0007	0.0016	0.0012						
Total Manganese	mg/L	0.05	AO	<0.005	0.024	0.082	0.0094	0.0913	0.0077	0.014	<0.005	<0.0050						
Total Molybdenum	mg/L										<0.0001	<0.0001						
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	<0.003	0.0007	<0.0006	<0.0006	<0.0006	<0.0006						
Total Silicon	mg/L										14.5	14.2						
Total Silver	mg/L							<0.00001	<0.00001	0.00002	<0.00001	0.00002						
Total Strontium	mg/L										0.07	0.078						
Total Thallium	mg/L										<0.00001	<0.00001						
Total Tin	mg/L										<0.0001	<0.0001						
Total Titanium	mg/L										<0.001	0.0023						
Total Uranium	mg/L	0.02	MAC	<0.0005	<0.0005	<0.0005	<0.002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004						
Total Vanadium	mg/L										0.0001	0.0001						
Total Zinc	mg/L	5	AO	0.033	0.051	0.047	0.056	0.028	0.023	0.021	0.021	0.032						
Total Zirconium	mg/L																	
Total Calcium	mg/L			31.6	31.9	36.6	34.4	33.5	32.5	29.7	37.7	39						
Total Magnesium	mg/L			11.2	10.6	12.8	11.8	12.5	11.5	10.8	13	13.4						
Total Potassium	mg/L			<0.4	<0.4	0.4	0.4	0.4	0.6	0.4	0.6	0.62						
Total Sodium	mg/L	200	AO	36	21.9	14.8	29.9	43.3	23.8	26.3	31.4	33.6						
Total Sulphur	mg/L																	