REGIONAL DISTRICT OF NANAIMO

San Pareil Distribution Water Analysis
793 San Malo Crescent (*Sample Collected at Terrien Way)

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		Dec. 14 1999*	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 18 2011*	May 23 2012*	June 5 2013	
Miscellaneous Inorganics																		
Fluoride	mg/L	1.5	MAC	<0.05	<0.04	0.07	<0.01	<1.0	<1.0	<0.1	<1.0	<0.1	<1.0	<1.0	<1.0	<0.05	<0.05	
Alkalinity (total as $CaCO_3$)	mg/L			27.2	23	20	36	17	24	22	21	20	21	25	21	20	24	
Anions																		
Dissolved Sulphate	mg/L	500	AO	1.6	1.69	1.55	1.8	10	<2	1.6	<2.0	<2.0	2	<2.0	<2.0	1.4	1.4	
Dissolved Chloride	mg/L	250	AO	3.8	7.3	5.94	5.48	6.5	5.7	4.9	4.8	4.9	7.3	5	4.6	4	5	
Nitrite	mg/L	1	MAC	<0.002	0.017	<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			5	3	2	2	6	<5	<5	26	<5	<5	24	<5	3	<5	
Nutrients																		
Total Ammonia	mg/L															<0.01	0.02	
Physical Properties																		
Conductivity	µS/cm			66	82.8	68	85	71.1	69	65.5	62.1	56.6	66.8	69.9	62.3	61	65	
pH	pH	7.0:10.5	AO	6.75	6.08	6.15	6.47	6.5	6.5	6.5	6.7	6.63	6.8	6.7	6.9	6.8	6.6	
TDS	mg/L	500	AO	74	40	7	20	53	40	47	26	58	62	72	54	62	60	
Turbidity	NTU			0.12	<0.05	<0.05	0.23	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<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														18	21	23	
Nitrate	mg/L	10	MAC	0.09	0.045	0.09	0.07	0.2	<0.1	0.06	<0.1	<0.1	0.1	<0.1	<0.1	0.05	0.08	
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	0.15	0.013	0.016	0.021	0.016	0.01	<0.005	0.011	<0.05	0.013	0.019	0.012	0.011	0.013	
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	<0.001	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	
Total Barium	mg/L	1	MAC	0	0.0043	0.0038	0.003	0.003	0.003	0.002	0.002	<0.005	0.002	0.002	0.002	<0.001	0.003	
Total Beryllium	mg/L															<0.00004	<0.00004	
Total Bismuth	mg/L															<0.001	<0.0010	
Total Boron	mg/L	5	MAC	<0.05	0.011	0.01	0.012	0.009	0.01	0.007	0.01	<0.02	0.008	0.008	0.02	0.007	0.009	
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	<0.00001	
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	<0.00002	
Total Copper	mg/L	1	AO	0.024	0.012	0.01	0.011	0.008	0.01	0.005	0.007	0.005	0.007	0.007	0.006	0.004	0.012	
Total Iron	mg/L	0.3	AO	<0.05	0.094	0.025	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	0.02	<0.01	0.018	<0.01	0.02	
Total Lead	mg/L	0.01	MAC	0.001	0.002	<0.002	0.0009	0.0006	0.0009	0.0003	0.0003	<0.0005	0.0005	0.0004	0.0039	0.0016	0.0018	
Total Manganese	mg/L	0.05	AO	0.005	0.0012	0.0026	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	0.0024	0.004	0.011	<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	<0.002	0.007	<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															2.81	3.05	
Total Silver	mg/L												<0.00001	<0.00001	0.00001	<0.00001	0.00001	
Total Strontium	mg/L															0.029	0.031	
Total Thallium	mg/L															<0.00001	<0.00001	
Total Tin	mg/L															<0.0001	0.0002	
Total Titanium	mg/L															<0.001	<0.0010	
Total Uranium	mg/L	0.02	MAC	<0.0005	<0.06	<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															0.0003	0.0003	
Total Zinc	mg/L	5	AO	<0.005	0.0084	0.007	0.004	0.005	0.005	0.002	0.012	<0.005	0.008	0.007	0.002	<0.001	0.008	
Total Zirconium	mg/L																	
Total Calcium	mg/L			7.71	9.2	7.8	7.2	7.4	7.6	6.9	6.9	5	7.71	7.13	5.79	6.6	7.32	
Total Magnesium	mg/L			0.73	1.13	1.1	0.9	0.9	1.1	1	1	0.7	1.05	1.06	0.93	0.97	1.09	
Total Potassium	mg/L			0.13	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.2	0.2	0.1	0.2	0.2	0.33	
Total Sodium	mg/L	200	AO	3.14	3.9	4.1	4.7	4.3	<0.4	4	4	4.4	4.61	4.29	4.45	3.39	4.87	
Total Sulphur	mg/L																	