REGIONAL DISTRICT OF NANAIMO

Whiskey Creek Surface Water Analysis
3474 Hebert Road-Crocker Creek

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		October 26 2011	October 16 2012	October 17 2013												
Miscellaneous Inorganics																		
Fluoride	mg/L	1.5	MAC	<0.1	0.08	<0.05												
Alkalinity (total as $CaCO_3$)	mg/L			40	40	42												
Anions																		
Dissolved Sulphate	mg/L	500	AO	1.1	2.2	1.1												
Dissolved Chloride	mg/L	250	AO	2	2.3	2.6												
Nitrite	mg/L	1	MAC	<0.01	<0.05	<0.05												
Miscellaneous																		
Apparent Colour	Colour Unit			20	83	41												
Tannins & Lignins	mg/L			0.4	1.2	0.5												
Nutrients																		
Total Ammonia	mg/L				<0.01	<0.02												
Physical Properties																		
Conductivity	µS/cm			90.2	91	94												
pH	pH	7.0:10.5	OG	7.6	7.3	7												
TDS	mg/L	500	AO	100	72	52												
Turbidity	NTU			<0.5	1	2.2												
Microbiological Parameters																		
E.coli	MPN/100mL	<1	MAC	<1.0	118.4	<1.0												
Total Coliforms	MPN/100mL	<1	MAC	>200.5	>200.5	>200.5												
Calculated Parameters																		
Total Hardness ($CaCO_3$)	mg/L			21	43	44												
Nitrate	mg/L	10	MAC	0.03	0.19	0.07												
Elements																		
Total Mercury	mg/L	0.001	MAC	<0.00001	<0.0001	<0.00001												
Total Metals																		
Total Aluminum	mg/L	0.1	OG	0.021	0.083	0.128												
Total Antimony	mg/L	0.006	MAC	<0.0002	<0.0001	<0.0002												
Total Arsenic	mg/L	0.01	MAC	<0.0002	0.00015	0.0002												
Total Barium	mg/L	1	MAC	<0.001	0.00143	0.002												
Total Beryllium	mg/L			<0.00004	<0.00005	<0.00004												
Total Bismuth	mg/L			<0.001	<0.0001	<0.0010												
Total Boron	mg/L	5	MAC	<0.005	0.003	<0.005												
Total Cadmium	mg/L	0.005	MAC	<0.00001	0.00002	<0.00001												
Total Chromium	mg/L	0.05	MAC	<0.0004	0.0007	0.0005												
Total Cobalt	mg/L			0.00002	<0.0001	0.00012												
Total Copper	mg/L	1	AO	0.001	0.0044	0.003												
Total Iron	mg/L	0.3	AO	0.047	0.158	0.201												
Total Lead	mg/L	0.01	MAC	0.0006	0.0005	0.0005												
Total Manganese	mg/L	0.05	AO	<0.005	0.0172	0.031												
Total Molybdenum	mg/L			0.0001	0.00026	0.0001												
Total Nickel	mg/L			<0.001	0.0002	<0.001												
Total Selenium	mg/L	0.05	MAC	<0.0006	<0.0001	<0.0006												
Total Silicon	mg/L			8.07	9.23	8.54												
Total Silver	mg/L			<0.00001	<0.00001	<0.00001												
Total Strontium	mg/L			0.023	0.0243	0.027												
Total Thallium	mg/L			<0.00001	<0.00001	<0.00001												
Total Tin	mg/L			<0.0001	0.0004	<0.0001												
Total Titanium	mg/L			0.003	0.0049	0.0074												
Total Uranium	mg/L	0.02	MAC	<0.0004	<0.00001	<0.0004												
Total Vanadium	mg/L			0.0015	0.0029	0.0024												
Total Zinc	mg/L	5	AO	0.004	0.0113	0.009												
Total Zirconium	mg/L																	
Total Calcium	mg/L			11.4	11.7	11.5												
Total Magnesium	mg/L			3.58	3.43	3.64												
Total Potassium	mg/L			<0.1	0.2	0.24												
Total Sodium	mg/L	200	AO	2.93	2.9	4.62												
Total Sulphur	mg/L																	