CERTIFICATE OF ANALYSIS

CLIENT **Interior Health Authority - Kamloops**
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TEL 1-250-851-7340
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ATTENTION **Debbie Alore**

RECEIVED / TEMP	Jun-03-10 13:25 / 5.0 °C	**WORK ORDER**	K0F0226
REPORTED	Jun-10-10	**PROJECT**	Debbie Alore - Should I test my DW Pkg
COC #(s)	27365	**PROJECT INFO**	Queest Village - RAW Water Fac.#14-098-00056

General Comments:

CARO Analytical Services employs methods which are based on those found in "Standard Methods for the Examination of Water and Wastewater", 21st Edition, 2005, published by the American Public Health Association (APHA); US EPA protocols found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846", 3rd Edition; and protocols published by the British Columbia Ministry of Environment (BCMOE).

Methods not described in these publications are conducted according to procedures accepted by appropriate regulatory agencies, and/or are done in accordance with recognized professional standards using accepted testing methodologies and quality control efforts except where otherwise agreed to by the client.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirity. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued unless otherwise agreed to in writing.

- All solids results are reported on a dry weight basis unless otherwise noted

- Units: mg/kg = milligrams per kilogram, equivalent to parts per million (ppm)
  mg/L = milligrams per litre, equivalent to parts per million (ppm)
  ug/L = micrograms per litre, equivalent to parts per billion (ppb)
  ug/g = micrograms per gram, equivalent to parts per million (ppm)
  ug/m3 = micrograms per cubic meter of air

- "RDL" Reported detection limit
- "<" Less than reported detection limit
- "AO" Aesthetic objective
- "MAC" Maximum acceptable concentration (health-related guideline)
- "LAB" RMD = CARO - Richmond location, KEL = CARO - Kelowna location, SUB = Subcontracted

Please contact CARO if more information is needed.

CARO Analytical Services



Final Review Per: **Sarah Speier, B.Sc.**
Administration Coordinator (Acting)

SAMPLE DATA

CARO ANALYTICAL SERVICES

CLIENT	Interior Health Authority - Kamloops	**WORK ORDER #**	K0F0226
PROJECT	Debbie Alore - Should I test my DW Pkg	**REPORTED**	Jun-10-10

General Parameters

Queest Village - RAW Water @ Lot 49 External Tap 14:00 (K0F0226-01) Matrix: Water Sampled: Jun-02-10

Analyte	Result	Canadian DW Guidelines (May 08)	RDL	Units	Analyzed	Method	Lab	Notes
Alkalinity, Total as CaCO3	**30.7**		1.0	mg/L	Jun-05-10	APHA 2320 B	KEL	
Chloride	<0.10	AO ≤ 250	0.10	mg/L	Jun-04-10	APHA 4110 B	KEL	
Colour, True	**12**	AO ≤ 15	5	Color Unit	Jun-05-10	APHA 2120 B	KEL	
Conductivity (EC)	**68**		2	uS/cm	Jun-05-10	APHA 2510 B	KEL	
Cyanide (total)	<0.01	MAC = 0.2	0.01	mg/L	Jun-10-10	APHA 4500-CN	KEL	
Fluoride	<0.10	MAC = 1.5	0.10	mg/L	Jun-04-10	APHA 4110 B	KEL	
Hardness, Total (Total as CaCO3)	**30.7**		0.29	mg/L	Jun-09-10	APHA 2340 B	RMD	
Nitrogen, Nitrate as N	<0.01	MAC = 10	0.01	mg/L	Jun-04-10	APHA 4110 B	KEL	
pH	**7.73**	AO = 6.5 - 8.5	0.10	pH Units	Jun-05-10	APHA 4500-H+	KEL	
Solids, Total Dissolved	**40**	AO ≤ 500	5	mg/L	Jun-04-10	APHA 2540 C	KEL	
Sulfate	**5.7**	AO ≤ 500	1.0	mg/L	Jun-04-10	APHA 4110 B	KEL	
Turbidity	**5.2**	Varies, See Guidelines	0.1	NTU	Jun-04-10	APHA 2130 B	KEL	
UV Transmittance @ 254nm	**83.8**		0.1	%	Jun-09-10	APHA 5910B	KEL	

Total Recoverable Metals by ICPMS

Queest Village - RAW Water @ Lot 49 External Tap 14:00 (K0F0226-01) Matrix: Water Sampled: Jun-02-10

Analyte	Result	Canadian DW Guidelines (May 08)	RDL	Units	Analyzed	Method	Lab	Notes
Aluminum	**0.419**	AO ≤ 0.1	0.005	mg/L	Jun-09-10	EPA 6020A	RMD	
Antimony	<0.0001	MAC = 0.006	0.0001	mg/L	Jun-09-10	EPA 6020A	RMD	
Arsenic	<0.0005	MAC = 0.01	0.0005	mg/L	Jun-09-10	EPA 6020A	RMD	
Barium	**0.0118**	MAC = 1	0.0005	mg/L	Jun-09-10	EPA 6020A	RMD	
Beryllium	<0.0001		0.0001	mg/L	Jun-09-10	EPA 6020A	RMD	
Bismuth	<0.0001		0.0001	mg/L	Jun-09-10	EPA 6020A	RMD	
Boron	<0.004	MAC = 5	0.004	mg/L	Jun-09-10	EPA 6020A	RMD	
Cadmium	<0.00001	MAC = 0.005	0.00001	mg/L	Jun-09-10	EPA 6020A	RMD	
Calcium	**10.7**		0.1	mg/L	Jun-09-10	EPA 6020A	RMD	
Chromium	**0.0014**	MAC = 0.05	0.0005	mg/L	Jun-09-10	EPA 6020A	RMD	
Cobalt	**0.00034**		0.00005	mg/L	Jun-09-10	EPA 6020A	RMD	
Copper	**0.0061**	AO ≤ 1	0.0001	mg/L	Jun-09-10	EPA 6020A	RMD	
Iron	**0.61**	AO ≤ 0.3	0.01	mg/L	Jun-09-10	EPA 6020A	RMD	
Lead	**0.0006**	MAC = 0.01	0.0001	mg/L	Jun-09-10	EPA 6020A	RMD	
Lithium	**0.0017**		0.0001	mg/L	Jun-09-10	EPA 6020A	RMD	
Magnesium	**0.97**		0.01	mg/L	Jun-09-10	EPA 6020A	RMD	
Manganese	**0.0183**	AO ≤ 0.05	0.0002	mg/L	Jun-09-10	EPA 6020A	RMD	
Mercury	<0.00005	MAC = 0.001	0.00005	mg/L	Jun-09-10	EPA 6020A	RMD	
Molybdenum	**0.0003**		0.0001	mg/L	Jun-09-10	EPA 6020A	RMD	
Nickel	**0.0011**		0.0002	mg/L	Jun-09-10	EPA 6020A	RMD	
Phosphorus	**0.02**		0.02	mg/L	Jun-09-10	EPA 6020A	RMD	
Potassium	**0.59**		0.01	mg/L	Jun-09-10	EPA 6020A	RMD	
Selenium	<0.0003	MAC = 0.01	0.0003	mg/L	Jun-09-10	EPA 6020A	RMD	
Silicon	**2.0**		0.2	mg/L	Jun-09-10	EPA 6020A	RMD	
Silver	**0.00010**		0.00005	mg/L	Jun-09-10	EPA 6020A	RMD	
Sodium	**0.45**	AO ≤ 200	0.01	mg/L	Jun-09-10	EPA 6020A	RMD	
Strontium	**0.0634**		0.0005	mg/L	Jun-09-10	EPA 6020A	RMD	

SAMPLE DATA

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Analyte	Result	Canadian DW Guidelines (May 08)	RDL	Units	Analyzed	Method	Lab	Notes
Total Recoverable Metals by ICPMS, Continued								
Queest Village - RAW Water @ Lot 49 External Tap 14:00, Continued (K0F0226-01) Matrix: Water Sampled: Jun-02-10								
Tellurium	<0.0002		0.0002	mg/L	Jun-09-10	EPA 6020A	RMD	
Thallium	<0.00002		0.00002	mg/L	Jun-09-10	EPA 6020A	RMD	
Thorium	**0.0002**		0.0001	mg/L	Jun-09-10	EPA 6020A	RMD	
Tin	**0.0004**		0.0002	mg/L	Jun-09-10	EPA 6020A	RMD	
Titanium	**0.025**		0.005	mg/L	Jun-09-10	EPA 6020A	RMD	
Uranium	**0.00059**	MAC = 0.02	0.00002	mg/L	Jun-09-10	EPA 6020A	RMD	
Vanadium	<0.001		0.001	mg/L	Jun-09-10	EPA 6020A	RMD	
Zinc	**0.009**	AO ≤ 5	0.001	mg/L	Jun-09-10	EPA 6020A	RMD	
Zirconium	**0.0001**		0.0001	mg/L	Jun-09-10	EPA 6020A	RMD	