

REPORTED TO Okanagan Falls Irrigation District
P.O. Box 110
Okanagan Falls, BC V0H 1R0

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ATTENTION Ken Peters

WORK ORDER 7030966

PO NUMBER

RECEIVED / TEMP 2017-03-14 16:00 / 5°C

PROJECT General Potability

REPORTED 2017-03-22

PROJECT INFO

COC NUMBER B 15991

General Comments:

CARO Analytical Services employs methods which are conducted according to procedures accepted by appropriate regulatory agencies, and/or are conducted 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 or Sample Requisition document. This analytical report must be reproduced in its entirety. 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.



Authorized By:

Kristin McKeown
Client Service Representative

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Analysis Description	Method Reference	Technique	Location
Alkalinity in Water	APHA 2320 B*	Titration with H2SO4	Kelowna
Anions by IC in Water	APHA 4110 B	Ion Chromatography with Chemical Suppression of Eluent Conductivity	Kelowna
Coliforms, Total (MF-CCA) in Water	APHA 9222*	Membrane Filtration / Incubation on Chromocult Agar	Kelowna
Colour, True in Water	APHA 2120 C	Spectrophotometry (456 nm)	Kelowna
Conductivity in Water	APHA 2510 B	Conductivity Meter	Kelowna
Cyanide, SAD in Water	ASTM D7511-12	Flow Injection Analysis with In-Line Ultraviolet Digestion and Amperometric Detection	Kelowna
E. coli (MF-CCA) in Water	APHA 9222*	Membrane Filtration / Incubation on Chromocult Agar	Kelowna
Hardness (as CaCO3) in Water	APHA 2340 B*	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Estimated)	N/A
Langelier Index in Water	APHA 2330 B	Calculation	N/A
Mercury, total by CVAFS in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	Richmond
pH in Water	APHA 4500-H+ B	Electrometry	Kelowna
Solids, Total Dissolved (calc) in Water	APHA 1030 E	Calculation: 100 x ([Cations]-[Anions])/([Cations]+[Anions])	N/A
Temperature (lab) in Water	APHA 2550 B	Thermometer	Kelowna
Total Metals by ICPMS in Water	APHA 3030 E* / APHA 3125 B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	Richmond
Turbidity in Water	APHA 2130 B	Nephelometry	Kelowna

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

Method Reference Descriptions:

APHA Standard Methods for the Examination of Water and Wastewater, 22nd Edition, American Public Health Association/American Water Works Association/Water Environment Federation
 ASTM ASTM International Test Methods
 EPA United States Environmental Protection Agency Test Methods

Glossary of Terms:

MRL Method Reporting Limit
 < Less than the Reported Detection Limit (RDL) - the RDL may be higher than the MRL due to various factors such as dilutions, limited sample volume, high moisture, or interferences
 AO Aesthetic objective
 MAC Maximum acceptable concentration (health based)
 OG Operational guideline (treated water)
 °C Degrees Celcius
 CFU/100 mL Colony Forming Units per 100 millilitres
 CU Colour Units (referenced against a platinum cobalt standard)
 mg/L Milligrams per litre
 NTU Nephelometric Turbidity Units
 pH units pH < 7 = acidic, pH > 7 = basic
 µS/cm Microsiemens per centimetre

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Standards / Guidelines Referenced in this Report:

Guidelines for Canadian Drinking Water Quality (Feb 2017)

Website: http://www.hc-sc.gc.ca/ewh-semt/alt_formats/pdf/pubs/water-eau/sum_guide-res_recom/sum_guide-res_recom-eng.pdf

Note: In some cases, the values displayed on the report represent the lowest guideline and are to be verified by the end user

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Analyte	Result / Recovery	Standard / Guideline	MRL / Limits	Units	Prepared	Analyzed	Notes
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Sample ID: Well #2 - Lower Zone (7030966-01) [Water] Sampled: 2017-03-14 07:35

Anions

Chloride	8.88	AO ≤ 250	0.10	mg/L	N/A	2017-03-16	
Fluoride	0.18	MAC = 1.5	0.10	mg/L	N/A	2017-03-16	
Nitrate (as N)	< 0.010	MAC = 10	0.010	mg/L	N/A	2017-03-16	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	N/A	2017-03-16	
Sulfate	39.0	AO ≤ 500	1.0	mg/L	N/A	2017-03-16	

General Parameters

Alkalinity, Total (as CaCO3)	219	N/A	2	mg/L	N/A	2017-03-15	
Alkalinity, Phenolphthalein (as CaCO3)	< 1	N/A	2	mg/L	N/A	2017-03-15	
Alkalinity, Bicarbonate (as CaCO3)	219	N/A	2	mg/L	N/A	2017-03-15	
Alkalinity, Carbonate (as CaCO3)	< 1	N/A	2	mg/L	N/A	2017-03-15	
Alkalinity, Hydroxide (as CaCO3)	< 1	N/A	2	mg/L	N/A	2017-03-15	
Colour, True	< 5	AO ≤ 15	5	CU	N/A	2017-03-15	
Conductivity (EC)	498	N/A	2.0	µS/cm	N/A	2017-03-15	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	N/A	2017-03-16	
pH	8.03	7-10.5	0.01	pH units	N/A	2017-03-15	HT2
Temperature, at pH	23	N/A		°C	N/A	2017-03-15	HT2
Turbidity	0.15	OG < 0.1	0.10	NTU	N/A	2017-03-15	

Calculated Parameters

Hardness, Total (as CaCO3)	228	N/A	0.500	mg/L	N/A	N/A	
Langelier Index	0.8	N/A	-5.0	-	N/A	2017-03-22	
Solids, Total Dissolved (calc)	282	N/A	1.00	mg/L	N/A	N/A	

Total Metals

Aluminum, total	< 0.005	OG < 0.1	0.005	mg/L	2017-03-16	2017-03-16	
Antimony, total	< 0.0001	MAC = 0.006	0.0001	mg/L	2017-03-16	2017-03-16	
Arsenic, total	0.0009	MAC = 0.01	0.0005	mg/L	2017-03-16	2017-03-16	
Barium, total	0.115	MAC = 1	0.005	mg/L	2017-03-16	2017-03-16	
Boron, total	0.015	MAC = 5	0.004	mg/L	2017-03-16	2017-03-16	
Cadmium, total	< 0.00001	MAC = 0.005	0.00001	mg/L	2017-03-16	2017-03-16	
Calcium, total	72.8	N/A	0.2	mg/L	2017-03-16	2017-03-16	
Chromium, total	< 0.0005	MAC = 0.05	0.0005	mg/L	2017-03-16	2017-03-16	
Cobalt, total	< 0.00005	N/A	0.00005	mg/L	2017-03-16	2017-03-16	
Copper, total	0.0040	AO ≤ 1	0.0002	mg/L	2017-03-16	2017-03-16	
Iron, total	0.03	AO ≤ 0.3	0.01	mg/L	2017-03-16	2017-03-16	
Lead, total	0.0002	MAC = 0.01	0.0001	mg/L	2017-03-16	2017-03-16	
Magnesium, total	11.2	N/A	0.01	mg/L	2017-03-16	2017-03-16	
Manganese, total	0.0026	AO ≤ 0.05	0.0002	mg/L	2017-03-16	2017-03-16	
Mercury, total	< 0.00002	MAC = 0.001	0.00002	mg/L	2017-03-20	2017-03-21	
Molybdenum, total	0.0004	N/A	0.0001	mg/L	2017-03-16	2017-03-16	
Nickel, total	< 0.0002	N/A	0.0002	mg/L	2017-03-16	2017-03-16	
Potassium, total	3.12	N/A	0.02	mg/L	2017-03-16	2017-03-16	
Selenium, total	< 0.0005	MAC = 0.05	0.0005	mg/L	2017-03-16	2017-03-16	
Sodium, total	13.3	AO ≤ 200	0.02	mg/L	2017-03-16	2017-03-16	
Uranium, total	0.00346	MAC = 0.02	0.00002	mg/L	2017-03-16	2017-03-16	
Zinc, total	0.007	AO ≤ 5	0.004	mg/L	2017-03-16	2017-03-16	

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Sample ID: Well #2 - Lower Zone (7030966-01) [Water] Sampled: 2017-03-14 07:35, Continued

Microbiological Parameters

Coliforms, Total	< 1	MAC = None Detected		1 CFU/100 mL	N/A	2017-03-15	
E. coli	< 1	MAC = None Detected		1 CFU/100 mL	N/A	2017-03-15	

Sample ID: Well #5 - Lower Zone (7030966-02) [Water] Sampled: 2017-03-14 08:10

Anions

Chloride	25.4	AO ≤ 250		0.10 mg/L	N/A	2017-03-16	
Fluoride	0.17	MAC = 1.5		0.10 mg/L	N/A	2017-03-16	
Nitrate (as N)	0.231	MAC = 10		0.010 mg/L	N/A	2017-03-16	
Nitrite (as N)	< 0.010	MAC = 1		0.010 mg/L	N/A	2017-03-16	
Sulfate	37.3	AO ≤ 500		1.0 mg/L	N/A	2017-03-16	

General Parameters

Alkalinity, Total (as CaCO ₃)	228	N/A		2 mg/L	N/A	2017-03-15	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1	N/A		2 mg/L	N/A	2017-03-15	
Alkalinity, Bicarbonate (as CaCO ₃)	228	N/A		2 mg/L	N/A	2017-03-15	
Alkalinity, Carbonate (as CaCO ₃)	< 1	N/A		2 mg/L	N/A	2017-03-15	
Alkalinity, Hydroxide (as CaCO ₃)	< 1	N/A		2 mg/L	N/A	2017-03-15	
Colour, True	< 5	AO ≤ 15		5 CU	N/A	2017-03-15	
Conductivity (EC)	563	N/A		2.0 µS/cm	N/A	2017-03-15	
Cyanide, Total	< 0.0020	MAC = 0.2		0.0020 mg/L	N/A	2017-03-16	
pH	8.05	7-10.5		0.01 pH units	N/A	2017-03-15	HT2
Temperature, at pH	23	N/A		°C	N/A	2017-03-15	HT2
Turbidity	0.80	OG < 0.1		0.10 NTU	N/A	2017-03-15	

Calculated Parameters

Hardness, Total (as CaCO ₃)	229	N/A		0.500 mg/L	N/A	N/A	
Langelier Index	0.8	N/A		-5.0 -	N/A	2017-03-22	
Solids, Total Dissolved (calc)	314	N/A		1.00 mg/L	N/A	N/A	

Total Metals

Aluminum, total	< 0.005	OG < 0.1		0.005 mg/L		2017-03-16	2017-03-16
Antimony, total	< 0.0001	MAC = 0.006		0.0001 mg/L		2017-03-16	2017-03-16
Arsenic, total	0.0008	MAC = 0.01		0.0005 mg/L		2017-03-16	2017-03-16
Barium, total	0.098	MAC = 1		0.005 mg/L		2017-03-16	2017-03-16
Boron, total	0.012	MAC = 5		0.004 mg/L		2017-03-16	2017-03-16
Cadmium, total	< 0.00001	MAC = 0.005		0.00001 mg/L		2017-03-16	2017-03-16
Calcium, total	73.0	N/A		0.2 mg/L		2017-03-16	2017-03-16
Chromium, total	< 0.0005	MAC = 0.05		0.0005 mg/L		2017-03-16	2017-03-16
Cobalt, total	< 0.00005	N/A		0.00005 mg/L		2017-03-16	2017-03-16
Copper, total	0.0059	AO ≤ 1		0.0002 mg/L		2017-03-16	2017-03-16
Iron, total	0.16	AO ≤ 0.3		0.01 mg/L		2017-03-16	2017-03-16
Lead, total	0.0004	MAC = 0.01		0.0001 mg/L		2017-03-16	2017-03-16
Magnesium, total	11.3	N/A		0.01 mg/L		2017-03-16	2017-03-16
Manganese, total	0.0253	AO ≤ 0.05		0.0002 mg/L		2017-03-16	2017-03-16

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Sample ID: Well #5 - Lower Zone (7030966-02) [Water] Sampled: 2017-03-14 08:10, Continued

Total Metals, Continued

Mercury, total	< 0.00002	MAC = 0.001	0.00002	mg/L	2017-03-20	2017-03-21	
Molybdenum, total	0.0013	N/A	0.0001	mg/L	2017-03-16	2017-03-16	
Nickel, total	0.0003	N/A	0.0002	mg/L	2017-03-16	2017-03-16	
Potassium, total	3.12	N/A	0.02	mg/L	2017-03-16	2017-03-16	
Selenium, total	0.0005	MAC = 0.05	0.0005	mg/L	2017-03-16	2017-03-16	
Sodium, total	23.7	AO ≤ 200	0.02	mg/L	2017-03-16	2017-03-16	
Uranium, total	0.00318	MAC = 0.02	0.00002	mg/L	2017-03-16	2017-03-16	
Zinc, total	< 0.004	AO ≤ 5	0.004	mg/L	2017-03-16	2017-03-16	

Microbiological Parameters

Coliforms, Total	< 1	MAC = None Detected	1	CFU/100 mL	N/A	2017-03-15	
E. coli	< 1	MAC = None Detected	1	CFU/100 mL	N/A	2017-03-15	

Sample ID: Well #3 - Upper Zone (7030966-03) [Water] Sampled: 2017-03-14 08:40

Anions

Chloride	10.8	AO ≤ 250	0.10	mg/L	N/A	2017-03-16	
Fluoride	0.13	MAC = 1.5	0.10	mg/L	N/A	2017-03-16	
Nitrate (as N)	0.444	MAC = 10	0.010	mg/L	N/A	2017-03-16	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	N/A	2017-03-16	
Sulfate	32.3	AO ≤ 500	1.0	mg/L	N/A	2017-03-16	

General Parameters

Alkalinity, Total (as CaCO ₃)	212	N/A	2	mg/L	N/A	2017-03-15	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1	N/A	2	mg/L	N/A	2017-03-15	
Alkalinity, Bicarbonate (as CaCO ₃)	212	N/A	2	mg/L	N/A	2017-03-15	
Alkalinity, Carbonate (as CaCO ₃)	< 1	N/A	2	mg/L	N/A	2017-03-15	
Alkalinity, Hydroxide (as CaCO ₃)	< 1	N/A	2	mg/L	N/A	2017-03-15	
Colour, True	< 5	AO ≤ 15	5	CU	N/A	2017-03-15	
Conductivity (EC)	483	N/A	2.0	µS/cm	N/A	2017-03-15	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	N/A	2017-03-16	
pH	7.96	7-10.5	0.01	pH units	N/A	2017-03-15	HT2
Temperature, at pH	23	N/A		°C	N/A	2017-03-15	HT2
Turbidity	0.48	OG < 0.1	0.10	NTU	N/A	2017-03-15	

Calculated Parameters

Hardness, Total (as CaCO ₃)	226	N/A	0.500	mg/L	N/A	N/A	
Langelier Index	0.7	N/A	-5.0	-	N/A	2017-03-22	
Solids, Total Dissolved (calc)	274	N/A	1.00	mg/L	N/A	N/A	

Total Metals

Aluminum, total	0.007	OG < 0.1	0.005	mg/L	2017-03-16	2017-03-16	
Antimony, total	0.0001	MAC = 0.006	0.0001	mg/L	2017-03-16	2017-03-16	
Arsenic, total	< 0.0005	MAC = 0.01	0.0005	mg/L	2017-03-16	2017-03-16	
Barium, total	0.061	MAC = 1	0.005	mg/L	2017-03-16	2017-03-16	
Boron, total	0.010	MAC = 5	0.004	mg/L	2017-03-16	2017-03-16	

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Sample ID: Well #3 - Upper Zone (7030966-03) [Water] Sampled: 2017-03-14 08:40, Continued

Total Metals, Continued

Cadmium, total	0.00004	MAC = 0.005	0.00001	mg/L	2017-03-16	2017-03-16	
Calcium, total	71.5	N/A	0.2	mg/L	2017-03-16	2017-03-16	
Chromium, total	< 0.0005	MAC = 0.05	0.0005	mg/L	2017-03-16	2017-03-16	
Cobalt, total	< 0.00005	N/A	0.00005	mg/L	2017-03-16	2017-03-16	
Copper, total	0.0035	AO ≤ 1	0.0002	mg/L	2017-03-16	2017-03-16	
Iron, total	0.10	AO ≤ 0.3	0.01	mg/L	2017-03-16	2017-03-16	
Lead, total	0.0002	MAC = 0.01	0.0001	mg/L	2017-03-16	2017-03-16	
Magnesium, total	11.5	N/A	0.01	mg/L	2017-03-16	2017-03-16	
Manganese, total	0.0016	AO ≤ 0.05	0.0002	mg/L	2017-03-16	2017-03-16	
Mercury, total	< 0.00002	MAC = 0.001	0.00002	mg/L	2017-03-20	2017-03-21	
Molybdenum, total	0.0011	N/A	0.0001	mg/L	2017-03-16	2017-03-16	
Nickel, total	0.0005	N/A	0.0002	mg/L	2017-03-16	2017-03-16	
Potassium, total	3.05	N/A	0.02	mg/L	2017-03-16	2017-03-16	
Selenium, total	0.0027	MAC = 0.05	0.0005	mg/L	2017-03-16	2017-03-16	
Sodium, total	13.2	AO ≤ 200	0.02	mg/L	2017-03-16	2017-03-16	
Uranium, total	0.00341	MAC = 0.02	0.00002	mg/L	2017-03-16	2017-03-16	
Zinc, total	0.019	AO ≤ 5	0.004	mg/L	2017-03-16	2017-03-16	

Microbiological Parameters

Coliforms, Total	< 1	MAC = None Detected	1	CFU/100 mL	N/A	2017-03-15	
E. coli	< 1	MAC = None Detected	1	CFU/100 mL	N/A	2017-03-15	

Sample ID: Well #4 - Upper Zone (7030966-04) [Water] Sampled: 2017-03-14 09:05

Anions

Chloride	10.6	AO ≤ 250	0.10	mg/L	N/A	2017-03-16	
Fluoride	0.14	MAC = 1.5	0.10	mg/L	N/A	2017-03-16	
Nitrate (as N)	0.954	MAC = 10	0.010	mg/L	N/A	2017-03-16	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	N/A	2017-03-16	
Sulfate	30.4	AO ≤ 500	1.0	mg/L	N/A	2017-03-16	

General Parameters

Alkalinity, Total (as CaCO ₃)	194	N/A	2	mg/L	N/A	2017-03-15	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1	N/A	2	mg/L	N/A	2017-03-15	
Alkalinity, Bicarbonate (as CaCO ₃)	194	N/A	2	mg/L	N/A	2017-03-15	
Alkalinity, Carbonate (as CaCO ₃)	< 1	N/A	2	mg/L	N/A	2017-03-15	
Alkalinity, Hydroxide (as CaCO ₃)	< 1	N/A	2	mg/L	N/A	2017-03-15	
Colour, True	< 5	AO ≤ 15	5	CU	N/A	2017-03-15	
Conductivity (EC)	455	N/A	2.0	µS/cm	N/A	2017-03-15	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	N/A	2017-03-16	
pH	7.88	7-10.5	0.01	pH units	N/A	2017-03-15	HT2
Temperature, at pH	23	N/A		°C	N/A	2017-03-15	HT2
Turbidity	2.08	OG < 0.1	0.10	NTU	N/A	2017-03-15	

Calculated Parameters

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Sample ID: Well #4 - Upper Zone (7030966-04) [Water] Sampled: 2017-03-14 09:05, Continued

Calculated Parameters, Continued

Hardness, Total (as CaCO ₃)	200	N/A	0.500	mg/L	N/A	N/A	
Langelier Index	0.5	N/A	-5.0	-	N/A	2017-03-22	
Solids, Total Dissolved (calc)	254	N/A	1.00	mg/L	N/A	N/A	

Total Metals

Aluminum, total	< 0.005	OG < 0.1	0.005	mg/L	2017-03-16	2017-03-16	
Antimony, total	< 0.0001	MAC = 0.006	0.0001	mg/L	2017-03-16	2017-03-16	
Arsenic, total	< 0.0005	MAC = 0.01	0.0005	mg/L	2017-03-16	2017-03-16	
Barium, total	0.056	MAC = 1	0.005	mg/L	2017-03-16	2017-03-16	
Boron, total	0.009	MAC = 5	0.004	mg/L	2017-03-16	2017-03-16	
Cadmium, total	0.00002	MAC = 0.005	0.00001	mg/L	2017-03-16	2017-03-16	
Calcium, total	61.6	N/A	0.2	mg/L	2017-03-16	2017-03-16	
Chromium, total	< 0.0005	MAC = 0.05	0.0005	mg/L	2017-03-16	2017-03-16	
Cobalt, total	< 0.00005	N/A	0.00005	mg/L	2017-03-16	2017-03-16	
Copper, total	0.0217	AO ≤ 1	0.0002	mg/L	2017-03-16	2017-03-16	
Iron, total	0.26	AO ≤ 0.3	0.01	mg/L	2017-03-16	2017-03-16	
Lead, total	0.0032	MAC = 0.01	0.0001	mg/L	2017-03-16	2017-03-16	
Magnesium, total	11.2	N/A	0.01	mg/L	2017-03-16	2017-03-16	
Manganese, total	0.0093	AO ≤ 0.05	0.0002	mg/L	2017-03-16	2017-03-16	
Mercury, total	< 0.00002	MAC = 0.001	0.00002	mg/L	2017-03-20	2017-03-21	
Molybdenum, total	0.0009	N/A	0.0001	mg/L	2017-03-16	2017-03-16	
Nickel, total	0.0004	N/A	0.0002	mg/L	2017-03-16	2017-03-16	
Potassium, total	2.90	N/A	0.02	mg/L	2017-03-16	2017-03-16	
Selenium, total	0.0008	MAC = 0.05	0.0005	mg/L	2017-03-16	2017-03-16	
Sodium, total	14.4	AO ≤ 200	0.02	mg/L	2017-03-16	2017-03-16	
Uranium, total	0.00466	MAC = 0.02	0.00002	mg/L	2017-03-16	2017-03-16	
Zinc, total	0.044	AO ≤ 5	0.004	mg/L	2017-03-16	2017-03-16	

Microbiological Parameters

Coliforms, Total	< 1	MAC = None Detected	1	CFU/100 mL	N/A	2017-03-15	
E. coli	< 1	MAC = None Detected	1	CFU/100 mL	N/A	2017-03-15	

Sample ID: Well #6 - Upper Zone (7030966-05) [Water] Sampled: 2017-03-14 00:00

Anions

Chloride	10.4	AO ≤ 250	0.10	mg/L	N/A	2017-03-16	
Fluoride	0.12	MAC = 1.5	0.10	mg/L	N/A	2017-03-16	
Nitrate (as N)	0.968	MAC = 10	0.010	mg/L	N/A	2017-03-16	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	N/A	2017-03-16	
Sulfate	30.2	AO ≤ 500	1.0	mg/L	N/A	2017-03-16	

General Parameters

Alkalinity, Total (as CaCO ₃)	198	N/A	2	mg/L	N/A	2017-03-15	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1	N/A	2	mg/L	N/A	2017-03-15	
Alkalinity, Bicarbonate (as CaCO ₃)	198	N/A	2	mg/L	N/A	2017-03-15	

REPORTED TO PROJECT Okanagan Falls Irrigation District
General Potability

WORK ORDER REPORTED 7030966
2017-03-22

Analyte	Result / Recovery	Standard / Guideline	MRL / Limits	Units	Prepared	Analyzed	Notes
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Sample ID: Well #6 - Upper Zone (7030966-05) [Water] Sampled: 2017-03-14 00:00, Continued

General Parameters, Continued

Alkalinity, Carbonate (as CaCO ₃)	< 1	N/A	2	mg/L	N/A	2017-03-15	
Alkalinity, Hydroxide (as CaCO ₃)	< 1	N/A	2	mg/L	N/A	2017-03-15	
Colour, True	< 5	AO ≤ 15	5	CU	N/A	2017-03-15	
Conductivity (EC)	465	N/A	2.0	µS/cm	N/A	2017-03-15	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	N/A	2017-03-16	
pH	7.76	7-10.5	0.01	pH units	N/A	2017-03-15	HT2
Temperature, at pH	23	N/A		°C	N/A	2017-03-15	HT2
Turbidity	0.11	OG < 0.1	0.10	NTU	N/A	2017-03-15	

Calculated Parameters

Hardness, Total (as CaCO ₃)	206	N/A	0.500	mg/L	N/A	N/A	
Langelier Index	0.4	N/A	-5.0	-	N/A	2017-03-22	
Solids, Total Dissolved (calc)	258	N/A	1.00	mg/L	N/A	N/A	

Total Metals

Aluminum, total	< 0.005	OG < 0.1	0.005	mg/L	2017-03-16	2017-03-16	
Antimony, total	< 0.0001	MAC = 0.006	0.0001	mg/L	2017-03-16	2017-03-16	
Arsenic, total	< 0.0005	MAC = 0.01	0.0005	mg/L	2017-03-16	2017-03-16	
Barium, total	0.058	MAC = 1	0.005	mg/L	2017-03-16	2017-03-16	
Boron, total	0.009	MAC = 5	0.004	mg/L	2017-03-16	2017-03-16	
Cadmium, total	< 0.00001	MAC = 0.005	0.00001	mg/L	2017-03-16	2017-03-16	
Calcium, total	63.5	N/A	0.2	mg/L	2017-03-16	2017-03-16	
Chromium, total	< 0.0005	MAC = 0.05	0.0005	mg/L	2017-03-16	2017-03-16	
Cobalt, total	< 0.00005	N/A	0.00005	mg/L	2017-03-16	2017-03-16	
Copper, total	0.0093	AO ≤ 1	0.0002	mg/L	2017-03-16	2017-03-16	
Iron, total	0.02	AO ≤ 0.3	0.01	mg/L	2017-03-16	2017-03-16	
Lead, total	0.0008	MAC = 0.01	0.0001	mg/L	2017-03-16	2017-03-16	
Magnesium, total	11.4	N/A	0.01	mg/L	2017-03-16	2017-03-16	
Manganese, total	0.0003	AO ≤ 0.05	0.0002	mg/L	2017-03-16	2017-03-16	
Mercury, total	< 0.00002	MAC = 0.001	0.00002	mg/L	2017-03-20	2017-03-21	
Molybdenum, total	0.0010	N/A	0.0001	mg/L	2017-03-16	2017-03-16	
Nickel, total	0.0002	N/A	0.0002	mg/L	2017-03-16	2017-03-16	
Potassium, total	2.93	N/A	0.02	mg/L	2017-03-16	2017-03-16	
Selenium, total	0.0011	MAC = 0.05	0.0005	mg/L	2017-03-16	2017-03-16	
Sodium, total	14.3	AO ≤ 200	0.02	mg/L	2017-03-16	2017-03-16	
Uranium, total	0.00446	MAC = 0.02	0.00002	mg/L	2017-03-16	2017-03-16	
Zinc, total	0.011	AO ≤ 5	0.004	mg/L	2017-03-16	2017-03-16	

Microbiological Parameters

Coliforms, Total	< 1	MAC = None Detected	1	CFU/100 mL	N/A	2017-03-15	
E. coli	< 1	MAC = None Detected	1	CFU/100 mL	N/A	2017-03-15	

Sample / Analysis Qualifiers:

HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.