



2020-09-09 09:15 / 8°C

CERTIFICATE OF ANALYSIS

REPORTED TO Kaleden Irrigation District

You know that the sample you collected after

119 Ponderosa Avenue Kaleden, BC V0H 1K0

ATTENTION Mike Snair **WORK ORDER** 0090900

PO NUMBER

REPORTED 2020-09-16 15:15 **PROJECT Drinking Water**

No Number **PROJECT INFO COC NUMBER**

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks

We've Got Chemistry

It's simple. We figure the more you enjoy with fun and working our members;

Ahead of the Curve

RECEIVED / TEMP

research, Through regulation knowledge, and instrumentation, analytical centre for the knowledge you BEFORE you need it, so you can stay

snowshoeing to site, digging 5 meters, and engaged team racing to get it on a plane so you can submit it the more are your to the lab for time sensitive results needed to likely you are to give us continued technical make important and expensive decisions opportunities to support you. (whew) is VERY important. We know that too. up to date and in the know.

If you have any questions or concerns, please contact me at teamcaro@caro.ca

Authorized By:

Team CARO Client Service Representative

1-888-311-8846 | www.caro.ca



TEST RESULTS

REPORTED TO PROJECT	Kaleden Irrigation District Drinking Water				WORK ORDER REPORTED	0090900 2020-09-1	6 15:15
Analyte		Result	Guideline	RL	Units	Analyzed	Qualifier
Pumphouse - 119	Ponderosa (0090900-01) N	//atrix: Water	Sampled: 2020-09)-08 12:00			
Microbiological Pa	rameters						
Coliforms, Total		< 1	MAC = 0	1	CFU/100 mL	2020-09-09	
E. coli		< 1	MAC = 0	1	CFU/100 mL	2020-09-09	
100 Ash Ave. (009	90900-02) Matrix: Water Sa	ampled: 2020)-09-08 11:00				
Calculated Parame	ters						
Total Trihalometha	anes	0.0673	MAC = 0.1	0.00400	mg/L	N/A	
Haloacetic Acids							
Monochloroacetic	Acid	< 0.0020	N/A	0.0020	mg/L	2020-09-14	
Monobromoacetic	Acid	< 0.0020	N/A	0.0020		2020-09-14	
Dichloroacetic Aci	d	0.0165	N/A	0.0020	mg/L	2020-09-14	
Trichloroacetic Aci	id	0.0147	N/A	0.0020	mg/L	2020-09-14	
Dibromoacetic Aci	d	< 0.0020	N/A	0.0020	mg/L	2020-09-14	
Total Haloacetic A	cids (HAA5)	0.0312	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bron	nopropionic Acid	113		70-130	%	2020-09-14	
Volatile Organic Co	ompounds (VOC)						
Bromodichloromet	thane	0.0052	N/A	0.0010	mg/L	2020-09-13	
Bromoform		< 0.0010	N/A	0.0010	mg/L	2020-09-13	
Chloroform		0.0622	N/A	0.0010		2020-09-13	
Dibromochlorome	thane	< 0.0010	N/A	0.0010	mg/L	2020-09-13	
Surrogate: Toluen		87		70-130		2020-09-13	
Surrogate: 4-Bron	nofluorobenzene	102		70-130	%	2020-09-13	
621 Linden Ave (0090900-03) Matrix: Water	Sampled: 20)20-09-08 11:45				
Calculated Parame	ters						
Total Trihalometha			1440 04		n	N/A	
	anes	0.0608	MAC = 0.1	0.00400	mg/L	IN/A	
Haloacetic Acids	anes	0.0608	MAC = 0.1	0.00400	mg/L	IN/A	
Haloacetic Acids Monochloroacetic		< 0.0020	MAC = 0.1	0.00400		2020-09-14	
	Acid				mg/L		
Monochloroacetic	Acid Acid	< 0.0020	N/A	0.0020	mg/L mg/L	2020-09-14	
Monochloroacetic Monobromoacetic	Acid Acid d	< 0.0020 < 0.0020	N/A N/A	0.0020 0.0020	mg/L mg/L mg/L	2020-09-14 2020-09-14	
Monochloroacetic Monobromoacetic Dichloroacetic Acid	Acid Acid d id	< 0.0020 < 0.0020 0.0141	N/A N/A N/A	0.0020 0.0020 0.0020 0.0020 0.0020	mg/L mg/L mg/L mg/L mg/L	2020-09-14 2020-09-14 2020-09-14	
Monochloroacetic Monobromoacetic Dichloroacetic Aci	Acid Acid d id	< 0.0020 < 0.0020 0.0141 0.0121	N/A N/A N/A N/A	0.0020 0.0020 0.0020 0.0020	mg/L mg/L mg/L mg/L mg/L	2020-09-14 2020-09-14 2020-09-14 2020-09-14 2020-09-14 N/A	
Monochloroacetic Monobromoacetic Dichloroacetic Aci Trichloroacetic Aci Dibromoacetic Aci	Acid Acid d id d cids (HAA5)	< 0.0020 < 0.0020 0.0141 0.0121 < 0.0020	N/A N/A N/A N/A	0.0020 0.0020 0.0020 0.0020 0.0020	mg/L mg/L mg/L mg/L mg/L mg/L	2020-09-14 2020-09-14 2020-09-14 2020-09-14 2020-09-14	
Monochloroacetic Monobromoacetic Dichloroacetic Aci Trichloroacetic Aci Dibromoacetic Aci Total Haloacetic A	Acid Acid d id cids (HAA5)	< 0.0020 < 0.0020 0.0141 0.0121 < 0.0020 0.0262	N/A N/A N/A N/A	0.0020 0.0020 0.0020 0.0020 0.0020	mg/L mg/L mg/L mg/L mg/L mg/L	2020-09-14 2020-09-14 2020-09-14 2020-09-14 2020-09-14 N/A	
Monochloroacetic Monobromoacetic Dichloroacetic Aci Trichloroacetic Aci Dibromoacetic Aci Total Haloacetic A Surrogate: 2-Brom	Acid Acid d did d cids (HAA5) nopropionic Acid	< 0.0020 < 0.0020 0.0141 0.0121 < 0.0020 0.0262	N/A N/A N/A N/A	0.0020 0.0020 0.0020 0.0020 0.0020	mg/L mg/L mg/L mg/L mg/L mg/L %	2020-09-14 2020-09-14 2020-09-14 2020-09-14 2020-09-14 N/A	
Monochloroacetic Monobromoacetic Dichloroacetic Aci Trichloroacetic Aci Dibromoacetic Aci Total Haloacetic A Surrogate: 2-Brom	Acid Acid d did d cids (HAA5) nopropionic Acid	< 0.0020 < 0.0020 0.0141 0.0121 < 0.0020 0.0262 104	N/A N/A N/A N/A N/A MAC = 0.08	0.0020 0.0020 0.0020 0.0020 0.0020 0.00200 70-130	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2020-09-14 2020-09-14 2020-09-14 2020-09-14 2020-09-14 N/A 2020-09-14	
Monochloroacetic Monobromoacetic Dichloroacetic Aci Trichloroacetic Aci Dibromoacetic Aci Total Haloacetic A Surrogate: 2-Brom Volatile Organic Co Bromodichloromet	Acid Acid d did d cids (HAA5) nopropionic Acid	< 0.0020 < 0.0020 0.0141 0.0121 < 0.0020 0.0262 104	N/A N/A N/A N/A N/A MAC = 0.08	0.0020 0.0020 0.0020 0.0020 0.0020 70-130	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2020-09-14 2020-09-14 2020-09-14 2020-09-14 2020-09-14 N/A 2020-09-14	



TEST RESULTS

REPORTED TOKaleden Irrigation DistrictWORK ORDER0090900PROJECTDrinking WaterREPORTED2020-09-16 15:15

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
621 Linden Ave (0090900-03) Matrix: V	Vater Sampled: 20	20-09-08 11:45, Coi	ntinued		
Volatile Organic Compounds (VOC), Contin	ued				
Surrogate: Toluene-d8	89		70-130 %	2020-09-13	
Surrogate: 4-Bromofluorobenzene	103		70-130 %	2020-09-13	



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO Kaleden Irrigation District

PROJECT Drinking Water

WORK ORDER

0090900

REPORTED

2020-09-16 15:15

Analysis Description	Method Ref.	Technique	Accredited	Location	
Coliforms, Total in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna	
E. coli in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna	
Haloacetic Acids in Water	EPA 552.3*	Liquid-Liquid Microextraction, Derivatization and GC-EC	D ✓	Richmond	
Trihalomethanes in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	✓	Richmond	

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

Glossary of Terms:

RL Reporting Limit (default)

Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors

CFU/100 mL Colony Forming Units per 100 millilitres

MAC Maximum Acceptable Concentration (health based)

mg/L Milligrams per litre

EPA United States Environmental Protection Agency Test Methods

SM Standard Methods for the Examination of Water and Wastewater, American Public Health Association

General Comments:

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 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. The quality control (QC) data is available upon request

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do <u>not</u> take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager:teamcaro@caro.ca

Please note any regulatory guidelines applied to this report are added as a convenience to the client, at their request, to help provide some initial context to analytical results obtained. Although CARO makes every effort to ensure accuracy of the associated regulatory guideline(s) applied, the guidelines applied cannot be assumed to be correct due to a variety of factors and as such CARO Analytical Services assumes no liability or responsibility for the use of those guidelines to make any decisions. The original source of the regulation should be verified and a review of the guideline(s) should be validated as correct in order to make any decisions arising from the comparison of the analytical data obtained to the relevant regulatory guideline for one's particular circumstances. Further, CARO Analytical Services assumes no liability or responsibility for any loss attributed from the use of these guidelines in any way.

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	CLIENT SAMPLE ID Pumphouse (119 ponderosa)	△ DRINKING WATER	OTHER WATER	OTHER	DATE dd-mmm-y 1 09-Sep-2			(ie, flow/volume media ID/notes)	BTEX ☐ VPH	(not	VOC VPH	L/HEPH (PAH corrected) PAH	SJC	PCB T GLY	METALS - WATER TOTAL	METALS - WAI	PH EC T		FECAL COLIFORMS	TOTAL COLIFORMS	SOIL VAPOLIR	IRON	THM	HAA			НОГР
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