

CERTIFICATE OF ANALYSIS

REPORTED TO	Yukon Government - Department of Education 1000 Lewes Blvd. Whitehorse, YT Y1A 6N2	WORK ORDER	8082286
ATTENTION	Miles Hume	RECEIVED / TEMP REPORTED	2018-08-23 12:50 / 16°C 2018-08-27 18:13
PO NUMBER		COC NUMBER	B65313/14/37/38/40
PROJECT	Department of Education 2018 Water Testing Program		
PROJECT INFO	Contract No. C00044694 (Vanier)		

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 17025:2005 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

We've Got Chemistry



It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Ahead of the Curve



Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

Work Order Comments:

Extra samples received not listed on COC: BS13 (66), BS14 (67), BS15 (68), BS16 (69), BS17 (70)

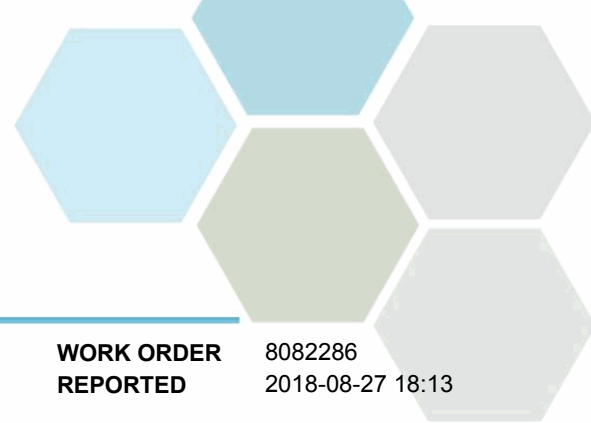
If you have any questions or concerns, please contact me at machan@caro.ca

Authorized By:

Maggie Chan, DipT
Client Service Representative

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

#110 4011 Viking Way Richmond, BC V6V 2K9 | #102 3677 Highway 97N Kelowna, BC V1X 5C3 | 17225 109 Avenue Edmonton, AB T5S 1H7

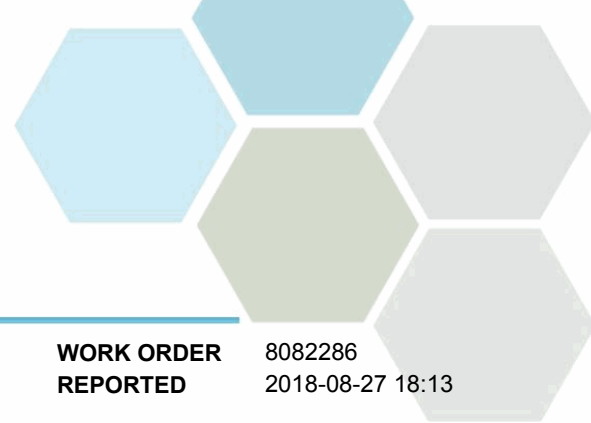


TEST RESULTS

REPORTED TO PROJECT Yukon Government - Department of Education
Department of Education 2018 Water Testing Program

WORK ORDER REPORTED 8082286
2018-08-27 18:13

Analyte	Result	RL	Units	Analyzed	Qualifier
BS 1 (8082286-01) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	11.3	0.20	µg/L	2018-08-26	
BS 2 (8082286-02) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	31.3	0.20	µg/L	2018-08-26	
BS 3 (8082286-03) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	34.7	0.20	µg/L	2018-08-26	
BS 4 (8082286-04) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	8.65	0.20	µg/L	2018-08-26	
BS 5 (8082286-05) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	5.12	0.20	µg/L	2018-08-26	
BS 6 (8082286-06) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	38.7	0.20	µg/L	2018-08-26	
BS 7 (8082286-07) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	6.80	0.20	µg/L	2018-08-26	
BS 8 (8082286-08) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	2.18	0.20	µg/L	2018-08-26	
BS 9 (8082286-09) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					

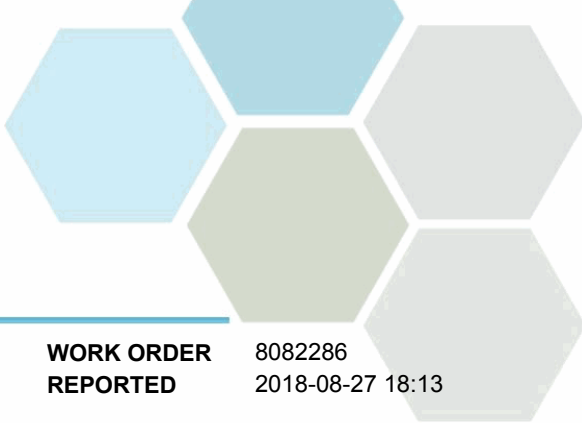


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WORK ORDER REPORTED 8082286
2018-08-27 18:13

Analyte	Result	RL	Units	Analyzed	Qualifier
BS 9 (8082286-09) Matrix: Water Sampled: 2018-08-17 10:00, Continued					
<i>Total Metals, Continued</i>					
Lead, total	15.1	0.20	µg/L	2018-08-26	
BS 10 (8082286-10) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	0.67	0.20	µg/L	2018-08-26	
BS 11 (8082286-11) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	3.07	0.20	µg/L	2018-08-26	
BS 12 (8082286-12) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	42.5	0.20	µg/L	2018-08-26	
BS 13 (8082286-13) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	2.37	0.20	µg/L	2018-08-26	
BS 14 (8082286-14) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	2.21	0.20	µg/L	2018-08-26	
BS 15 (8082286-15) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	22.4	0.20	µg/L	2018-08-26	
BS 16 (8082286-16) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	3.64	0.20	µg/L	2018-08-26	
BS 17 (8082286-17) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					



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2018-08-27 18:13

Analyte	Result	RL	Units	Analyzed	Qualifier
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BS 17 (8082286-17) | Matrix: Water | Sampled: 2018-08-17 10:00, Continued

Total Metals, Continued

Lead, total	25.9	0.20	µg/L	2018-08-26	
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BS 18 (8082286-18) | Matrix: Water | Sampled: 2018-08-17 10:00

Total Metals

Lead, total	18.5	0.20	µg/L	2018-08-26	
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BS 19 (8082286-19) | Matrix: Water | Sampled: 2018-08-17 10:00

Total Metals

Lead, total	33.5	0.20	µg/L	2018-08-26	
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BS 20 (8082286-20) | Matrix: Water | Sampled: 2018-08-17 10:00

Total Metals

Lead, total	4.12	0.20	µg/L	2018-08-26	
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BS 21 (8082286-21) | Matrix: Water | Sampled: 2018-08-17 10:00

Total Metals

Lead, total	17.2	0.20	µg/L	2018-08-26	
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BS 22 (8082286-22) | Matrix: Water | Sampled: 2018-08-17 10:00

Total Metals

Lead, total	25.2	0.20	µg/L	2018-08-26	
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BS 23 (8082286-23) | Matrix: Water | Sampled: 2018-08-17 10:00

Total Metals

Lead, total	46.2	0.20	µg/L	2018-08-26	
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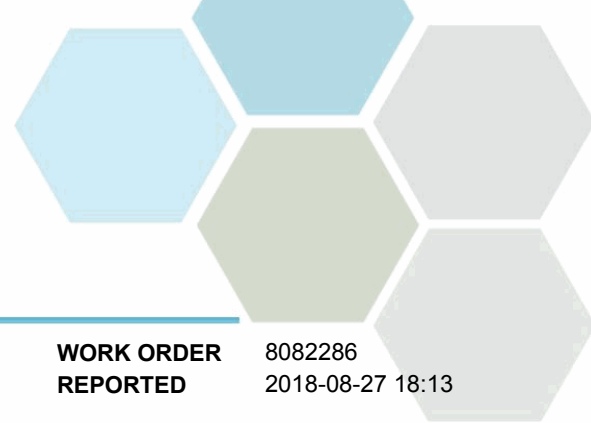
BS 24 (8082286-24) | Matrix: Water | Sampled: 2018-08-17 10:00

Total Metals

Lead, total	20.9	0.20	µg/L	2018-08-26	
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BS 25 (8082286-25) | Matrix: Water | Sampled: 2018-08-17 10:00

Total Metals

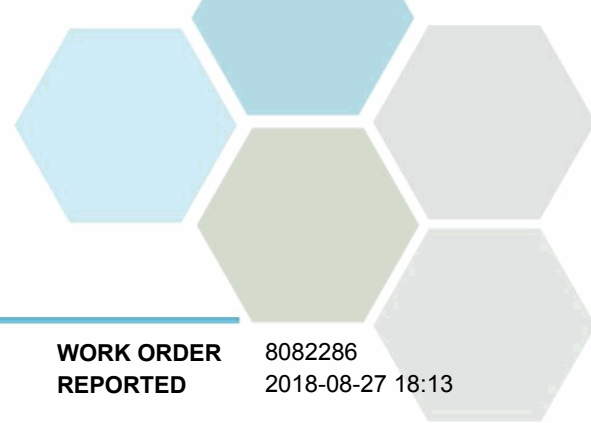


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Analyte	Result	RL	Units	Analyzed	Qualifier
BS 25 (8082286-25) Matrix: Water Sampled: 2018-08-17 10:00, Continued					
<i>Total Metals, Continued</i>					
Lead, total	9.92	0.20	µg/L	2018-08-26	
CS 1 (8082286-26) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	13.6	0.20	µg/L	2018-08-26	
CS 2 (8082286-27) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	1.53	0.20	µg/L	2018-08-26	
CS 3 (8082286-28) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	2.28	0.20	µg/L	2018-08-26	
CS 4 (8082286-29) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	0.72	0.20	µg/L	2018-08-26	
CS 5 (8082286-30) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	1.16	0.20	µg/L	2018-08-26	
CS 6 (8082286-31) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	9.74	0.20	µg/L	2018-08-26	
CS 7 (8082286-32) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	3.31	0.20	µg/L	2018-08-26	
CS 8 (8082286-33) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					

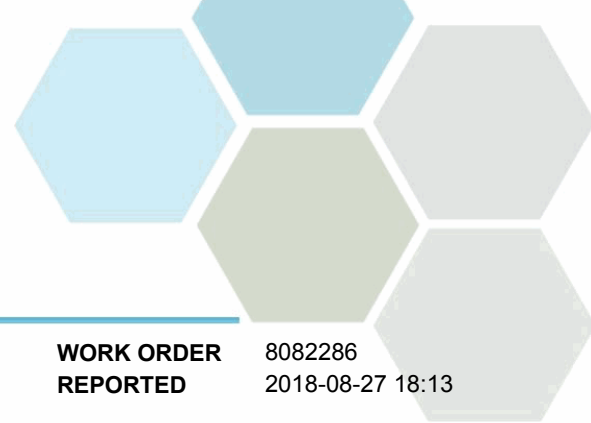


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Analyte	Result	RL	Units	Analyzed	Qualifier
CS 8 (8082286-33) Matrix: Water Sampled: 2018-08-17 10:00, Continued					
<i>Total Metals, Continued</i>					
Lead, total	2.79	0.20	µg/L	2018-08-26	
CS 9 (8082286-34) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	110	0.20	µg/L	2018-08-26	
CS 10 (8082286-35) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	6.60	0.20	µg/L	2018-08-26	
CS 11 (8082286-36) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	5.78	0.20	µg/L	2018-08-26	
CS 12 (8082286-37) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	2.73	0.20	µg/L	2018-08-26	
CS 13 (8082286-38) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	34.7	0.20	µg/L	2018-08-26	
CS 15 (8082286-40) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	9.55	0.20	µg/L	2018-08-26	
CS 16 (8082286-41) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	9.38	0.20	µg/L	2018-08-26	
CS 17 (8082286-42) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					

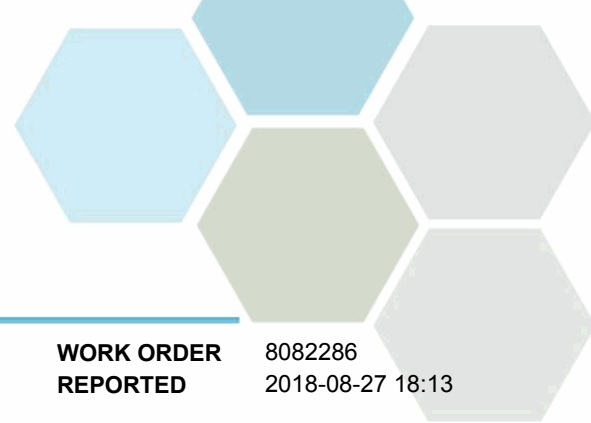


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Analyte	Result	RL	Units	Analyzed	Qualifier
CS 17 (8082286-42) Matrix: Water Sampled: 2018-08-17 10:00, Continued					
<i>Total Metals, Continued</i>					
Lead, total	7.72	0.20	µg/L	2018-08-26	
CS 18 (8082286-43) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	10.3	0.20	µg/L	2018-08-26	
CS 19 (8082286-44) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	12.4	0.20	µg/L	2018-08-26	
CS 20 (8082286-45) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	10.7	0.20	µg/L	2018-08-26	
CS 21 (8082286-46) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	20.5	0.20	µg/L	2018-08-26	
CS 22 (8082286-47) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	32.6	0.20	µg/L	2018-08-26	
CS 23 (8082286-48) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	17.8	0.20	µg/L	2018-08-26	
CS 24 (8082286-49) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	21.4	0.20	µg/L	2018-08-26	
CS 25 (8082286-50) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					

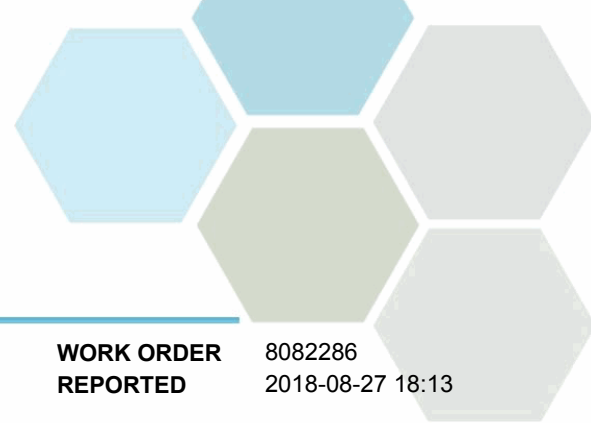


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Analyte	Result	RL	Units	Analyzed	Qualifier
CS 25 (8082286-50) Matrix: Water Sampled: 2018-08-17 10:00, Continued					
<i>Total Metals, Continued</i>					
Lead, total	10.7	0.20	µg/L	2018-08-26	
CS 26 (8082286-51) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	10.6	0.20	µg/L	2018-08-26	
CS 27 (8082286-52) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	14.9	0.20	µg/L	2018-08-26	
KS 1 (8082286-53) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	2.05	0.20	µg/L	2018-08-26	
KS 2 (8082286-54) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	4.56	0.20	µg/L	2018-08-26	
KS 3 (8082286-55) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	14.4	0.20	µg/L	2018-08-26	
KS 4 (8082286-56) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	5.99	0.20	µg/L	2018-08-26	
KS 5 (8082286-57) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	9.46	0.20	µg/L	2018-08-26	
DF 1 (8082286-58) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					

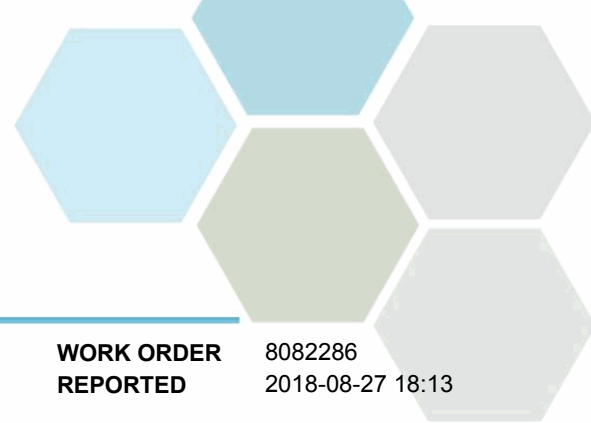


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2018-08-27 18:13

Analyte	Result	RL	Units	Analyzed	Qualifier
DF 1 (8082286-58) Matrix: Water Sampled: 2018-08-17 10:00, Continued					
<i>Total Metals, Continued</i>					
Lead, total	0.42	0.20	µg/L	2018-08-26	
DF 2 (8082286-59) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	7.72	0.20	µg/L	2018-08-26	
DF 3 (8082286-60) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	0.51	0.20	µg/L	2018-08-26	
DF 4 (8082286-61) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	5.39	0.20	µg/L	2018-08-25	
DF 5 (8082286-62) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	10.9	0.20	µg/L	2018-08-25	
DF 6 (8082286-63) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	6.73	0.20	µg/L	2018-08-25	
DF 7 (8082286-64) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	9.48	0.20	µg/L	2018-08-25	
DF 8 (8082286-65) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	6.92	0.20	µg/L	2018-08-25	
BS 13 (8082286-66) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					

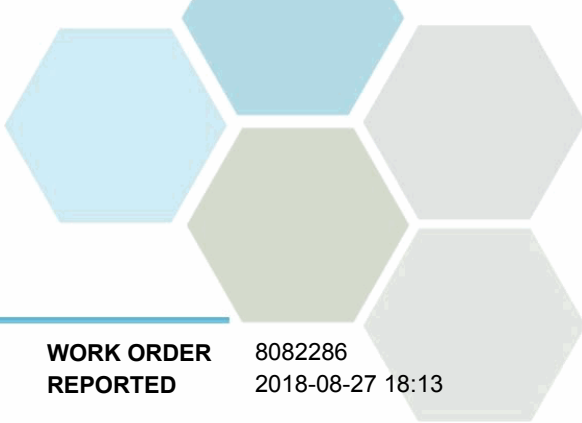


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Analyte	Result	RL	Units	Analyzed	Qualifier
BS 13 (8082286-66) Matrix: Water Sampled: 2018-08-17 10:00, Continued					
<i>Total Metals, Continued</i>					
Lead, total	26.1	0.20	µg/L	2018-08-26	
BS 14 (8082286-67) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	1.68	0.20	µg/L	2018-08-26	
BS 15 (8082286-68) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	13.9	0.20	µg/L	2018-08-26	
BS 16 (8082286-69) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	2.00	0.20	µg/L	2018-08-26	
BS 17 (8082286-70) Matrix: Water Sampled: 2018-08-17 10:00					
<i>Total Metals</i>					
Lead, total	1.73	0.20	µg/L	2018-08-26	



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Yukon Government - Department of Education
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WORK ORDER REPORTED 8082286
2018-08-27 18:13

Analysis Description	Method Ref.	Technique	Location
Total Metals in Water	EPA 200.2* / EPA 6020B	HNO ₃ +HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	Richmond

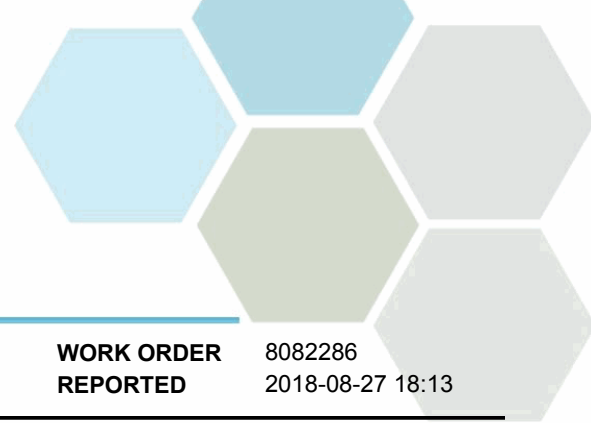
Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

Glossary of Terms:

RL	Reporting Limit (default)
µg/L	Micrograms per litre
EPA	United States Environmental Protection Agency Test Methods

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.



APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Yukon Government - Department of Education
Department of Education 2018 Water Testing Program

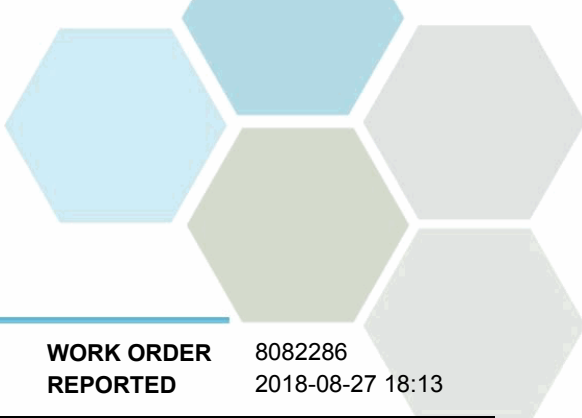
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The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

- **Method Blank (Blk):** A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- **Duplicate (Dup):** An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- **Blank Spike (BS):** A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.
- **Matrix Spike (MS):** A second aliquot of sample is fortified with with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- **Reference Material (SRM):** A homogenous material of similar matrix to the samples, certified for the parameter(s) listed. Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B8H2013									
Blank (B8H2013-BLK1)			Prepared: 2018-08-24, Analyzed: 2018-08-26						
Lead, total	< 0.20	0.20 µg/L							
Blank (B8H2013-BLK2)			Prepared: 2018-08-24, Analyzed: 2018-08-26						
Lead, total	< 0.20	0.20 µg/L							
LCS (B8H2013-BS1)			Prepared: 2018-08-24, Analyzed: 2018-08-26						
Lead, total	20.6	0.20 µg/L	20.0		103	80-120			
LCS (B8H2013-BS2)			Prepared: 2018-08-24, Analyzed: 2018-08-26						
Lead, total	20.6	0.20 µg/L	20.0		103	80-120			
Duplicate (B8H2013-DUP1)			Source: 8082286-01 Prepared: 2018-08-24, Analyzed: 2018-08-26						
Lead, total	11.3	0.20 µg/L		11.3			< 1	20	
Duplicate (B8H2013-DUP2)			Source: 8082286-40 Prepared: 2018-08-24, Analyzed: 2018-08-26						
Lead, total	9.63	0.20 µg/L		9.55			< 1	20	
Reference (B8H2013-SRM1)			Prepared: 2018-08-24, Analyzed: 2018-08-26						
Lead, total	211	0.20 µg/L	204		103	90-110			
Reference (B8H2013-SRM2)			Prepared: 2018-08-24, Analyzed: 2018-08-27						
Lead, total	202	0.20 µg/L	204		99	90-110			
Total Metals, Batch B8H2016									
Blank (B8H2016-BLK1)			Prepared: 2018-08-24, Analyzed: 2018-08-26						
Lead, total	< 0.20	0.20 µg/L							
Blank (B8H2016-BLK2)			Prepared: 2018-08-24, Analyzed: 2018-08-26						
Lead, total	< 0.20	0.20 µg/L							
LCS (B8H2016-BS1)			Prepared: 2018-08-24, Analyzed: 2018-08-26						
Lead, total	21.2	0.20 µg/L	20.0		106	80-120			
LCS (B8H2016-BS2)			Prepared: 2018-08-24, Analyzed: 2018-08-26						
Lead, total	21.4	0.20 µg/L	20.0		107	80-120			



APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Yukon Government - Department of Education
Department of Education 2018 Water Testing Program

WORK ORDER REPORTED 8082286
2018-08-27 18:13

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B8H2016, Continued									
Duplicate (B8H2016-DUP1)		Source: 8082286-41		Prepared: 2018-08-24, Analyzed: 2018-08-26					
Lead, total	9.26	0.20 µg/L		9.38			1	20	
Reference (B8H2016-SRM1)				Prepared: 2018-08-24, Analyzed: 2018-08-26					
Lead, total	211	0.20 µg/L	204		103	90-110			
Reference (B8H2016-SRM2)				Prepared: 2018-08-24, Analyzed: 2018-08-26					
Lead, total	210	0.20 µg/L	204		103	90-110			
Total Metals, Batch B8H2020									
Blank (B8H2020-BLK1)				Prepared: 2018-08-24, Analyzed: 2018-08-25					
Lead, total	< 0.20	0.20 µg/L							
Blank (B8H2020-BLK2)				Prepared: 2018-08-24, Analyzed: 2018-08-25					
Lead, total	< 0.20	0.20 µg/L							
LCS (B8H2020-BS1)				Prepared: 2018-08-24, Analyzed: 2018-08-25					
Lead, total	21.1	0.20 µg/L	20.0		106	80-120			
LCS (B8H2020-BS2)				Prepared: 2018-08-24, Analyzed: 2018-08-25					
Lead, total	21.1	0.20 µg/L	20.0		106	80-120			
Reference (B8H2020-SRM1)				Prepared: 2018-08-24, Analyzed: 2018-08-25					
Lead, total	210	0.20 µg/L	204		103	90-110			
Reference (B8H2020-SRM2)				Prepared: 2018-08-24, Analyzed: 2018-08-25					
Lead, total	210	0.20 µg/L	204		103	90-110			
Total Metals, Batch B8H2045									
Blank (B8H2045-BLK1)				Prepared: 2018-08-25, Analyzed: 2018-08-26					
Lead, total	< 0.20	0.20 µg/L							
LCS (B8H2045-BS1)				Prepared: 2018-08-25, Analyzed: 2018-08-26					
Lead, total	21.3	0.20 µg/L	20.0		106	80-120			
Duplicate (B8H2045-DUP1)		Source: 8082286-66		Prepared: 2018-08-25, Analyzed: 2018-08-26					
Lead, total	26.1	0.20 µg/L		26.1			< 1	20	
Reference (B8H2045-SRM1)				Prepared: 2018-08-25, Analyzed: 2018-08-26					
Lead, total	212	0.20 µg/L	204		104	90-110			