

RJ LeeGroup, Inc. | Columbia Basin Analytical Laboratories 2710 North 20th Avenue, Pasco WA 99301 Tel: (509) 545-4989 | Fax: (509) 544-6010

Fulcrum Environmental 406 N. 2nd St. Yakima, WA 98901

Subject: Chemical Analysis Report

Columbia Basin Analytical Laboratories received 44 sample(s) on 12/22/16 for analysis. These sample(s) have been assigned a login order number of W612120. Enclosed is the final report that consists of a summary report of the sample(s), and a copy of the chain of custody.

General Lab Comments

The results provided in this report relate only to the items tested. Sample(s) were received in acceptable conditions unless otherwise noted in the comments above. Sample(s) have not been field blank corrected unless otherwise noted in the general set comments above. The sample(s) were prepared in accordance with EPA 200.8 and analyzed in compliance with EPA 200.8. This test report shall not be reproduced, except in full, without written approval of Columbia Basin Analytical Laboratories. Any questions, please contact our office.

Matrix spike failures for copper attributed to calibration range exceedance and matrix effects have been qualified per the analytical method.

All samples were diluted 1:10.

X - Samples that exceeded the instrument calibration range were rerun at a 1:100 dilution, necessitating a 10-fold increase in the PQL.

Release of the data contained in the hard copy report has been authorized by the Laboratory Director or a designee as verified by the following signature. This report has been administratively reviewed by the following individual:



02/09/17 Date

Project Coordinator II, M. Fernanda Pincheira

If you have any questions please feel free to contact Fernanda Pincheira at MPincheira@rjleegroup.com.

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RJ Lee Group No.:W612120

Report Date: 02/09/17

Samples Received: 12/22/16

Analysis/Prep Date: 02/01/17

COC No.: Kennewick



Laboratory Report

Ryan	Mathews
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Fulcrum Environmental 406 N. 2nd St. Yakima, WA 98901

Client Project:

Fulcrum Kennewick

Sample Name: RJ Lee Grp. ID:	122216-HT W612120-	TE-P-NF-01 Matrix:	Potable Wate	r	Date Received Date Analyzed						
Analyt	e	Method		Result (mg/L)	PQL (mg/L)	Qualifiers					
Copper		EPA 200.8		0.97	0.01						
Lead		EPA 200.8		0.005	0.001						
Sample Name: RJ Lee Grp. ID:	122216-HT W612120-	TE-P-KF-02 Matrix:	Potable Wate	r	Date Received Date Analyzed						
Analyt	e	Method		Result (mg/L)	PQL (mg/L)	Qualifiers					
Copper		EPA 200.8		0.65	0.01						
Lead		EPA 200.8		0.002	0.001						
Sample Name: RJ Lee Grp. ID:	122216-HT W612120-	TE-P-KF-03 Matrix:	Potable Wate	r	d: 12/22/16 d: 02/01/17						
Analyt	e	Method		Result (mg/L)	PQL (mg/L)	Qualifiers					
Copper		EPA 200.8		0.88	0.01						
Lead		EPA 200.8		< 0.0010	0.001						
ample Name: RJ Lee Grp. ID:	122216-HT W612120-	TE-P-KF-04 Matrix:	Potable Wate	r	Date Received Date Analyzed						
Analyt	e	Method		Result (mg/L)	PQL (mg/L)	Qualifiers					
Copper		EPA 200.8		0.61	0.01						
Lead		EPA 200.8		< 0.0010	0.001						
ample Name: RJ Lee Grp. ID:	122216-HT W612120-	TE-P-KF-05 Matrix:	Potable Wate	r	Date Received Date Analyzed						
Analyt	e	Method		Result (mg/L)	PQL (mg/L)	Qualifiers					
Copper		EPA 200.8		0.83	0.01						
Lead		EPA 200.8		< 0.0010	0.001						
		Analytical Laboratories 2	710 1 004	A D 11/4 022	01 500 545 4090						

Sample Name: RJ Lee Grp. ID:	122216-НТ W612120-([°] E-P-CF-06 Matrix: Potable V 06	Vater	Date Received Date Analyzed	
Analyt	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	1.3	0.1	Х
Lead		EPA 200.8	< 0.0010	0.001	
Sample Name: RJ Lee Grp. ID:	122216-НТ W612120-(E-P-CDF-07 Matrix: Potable V	Vater	Date Received Date Analyzed	
Analyt	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper Lead		EPA 200.8 EPA 200.8	0.96 < 0.0010	0.01 0.001	
Sample Name: RJ Lee Grp. ID:	122216-НТ W612120-	E-P-CF-08 Matrix: Potable V	Vater	Date Received Date Analyzed	
Analyt	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	0.79	0.01	
Lead		EPA 200.8	0.002	0.001	
Sample Name: RJ Lee Grp. ID:	122216-НТ W612120-(E-P-CDF-09 Matrix: Potable V	Date Received Date Analyzed		
Analyt	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	0.91	0.01	
Lead		EPA 200.8	< 0.0010	0.001	
Sample Name: RJ Lee Grp. ID:	122216-НТ W612120-	E-P-CF-10 Matrix: Potable V	Vater	Date Received Date Analyzed	
Analyt	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	0.72	0.01	
Lead		EPA 200.8	0.001	0.001	
Sample Name: RJ Lee Grp. ID:	122216-HT W612120-	E-P-CDF-11 Matrix: Potable V	Vater	Date Received Date Analyzed	
Analyt	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	0.94	0.01	
11					

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Sample Name: RJ Lee Grp. ID:	122216-HT W612120-	TE-P-CF-12 Matrix: Potable W	'ater	Date Received: Date Analyzed:	12/22/16 02/01/17
Analy	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	0.68	0.01	
Lead		EPA 200.8	0.003	0.001	
Sample Name: RJ Lee Grp. ID:	122216-НТ W612120-	TE-P-CDF-13 Matrix: Potable W	<i>l</i> ater	Date Received: Date Analyzed:	12/22/16 02/01/17
Analy	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	0.84	0.01	
Lead		EPA 200.8	< 0.0010	0.001	
Sample Name: RJ Lee Grp. ID:	122216-НТ W612120-	TE-P-CF-14 Matrix: Potable W	/ater	Date Received: Date Analyzed:	12/22/16 02/01/17
Analy	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	0.95	0.01	
Lead		EPA 200.8	0.001	0.001	
Sample Name: RJ Lee Grp. ID:	122216-НТ W612120-	TE-P-CDF-15 Matrix: Potable W	/ater	Date Received: Date Analyzed:	12/22/16 02/01/17
Analy	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	0.88	0.01	
Lead		EPA 200.8	< 0.0010	0.001	
Sample Name: RJ Lee Grp. ID:	122216-НТ W612120-	TE-P-CF-16 Matrix: Potable W 16	/ater	Date Received: Date Analyzed:	12/22/16 02/02/17
Analy	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	1.0	0.1	Х
Lead		EPA 200.8	< 0.0010	0.001	
Sample Name: RJ Lee Grp. ID:	122216-НТ W612120-	TE-P-CDF-17 Matrix: Potable W	/ater	Date Received: Date Analyzed:	12/22/16 02/02/17
Analy	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
		EB4 200 9	0.9	0.1	V
Copper		EPA 200.8	0.9	0.1	Х

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Sample Name: RJ Lee Grp. ID:	122216-HT W612120-	TE-P-OF-18 Matrix: Potable Wa	ater	Date Received: Date Analyzed:	
Analy	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	0.45	0.01	
Lead		EPA 200.8	< 0.0010	0.001	
Sample Name: RJ Lee Grp. ID:	122216-НТ W612120-	E-P-OF-19 Matrix: Potable Wa	ater	Date Received: Date Analyzed:	
Analy	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper Lead		EPA 200.8 EPA 200.8	0.32 < 0.0010	0.01 0.001	
Sample Name: RJ Lee Grp. ID:	122216-НТ W612120-2	TE-P-CF-20 Matrix: Potable Wa	ater	Date Received: Date Analyzed:	
Analy	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper Lead		EPA 200.8 EPA 200.8	0.59 0.002	0.01 0.001	
Sample Name: RJ Lee Grp. ID:	122216-HT W612120-2	^{TE-P-CDF-21} Matrix: Potable Wa	Date Received: Date Analyzed:		
Analy	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	1.0	0.1	Х
Lead		EPA 200.8	< 0.0010	0.001	
Sample Name: RJ Lee Grp. ID:	122216-НТ W612120-2	TE-P-CF-22 Matrix: Potable Wa	ater	Date Received: Date Analyzed:	
Analy	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	0.99	0.01	
Lead		EPA 200.8	< 0.0010	0.001	
Sample Name: RJ Lee Grp. ID:	122216-HT W612120-2	TE-P-CDF-23 Matrix: Potable Wa	ater	Date Received: Date Analyzed:	
Analy	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
~		EPA 200.8	0.53	0.01	
Copper		EFA 200.8	0.55	0.01	

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Sample Name: RJ Lee Grp. ID:	122216-HT W612120-2	TE-P-CF-24 Matrix: Potable 7 24	Water	Date Received Date Analyzed	
Analy	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	0.96	0.01	
Lead		EPA 200.8	< 0.0010	0.001	
Sample Name: RJ Lee Grp. ID:	122216-НТ W612120-2	TE-P-CDF-25 Matrix: Potable	Water	Date Received Date Analyzed	
Analy	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper Lead		EPA 200.8 EPA 200.8	1.0 < 0.0010	0.1	Х
Sample Name: RJ Lee Grp. ID:	122216-НТ W612120-2	TE-P-WC-26 Matrix: Potable 26	Water	Date Received Date Analyzed	
Analy	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	0.73	0.01	
Lead		EPA 200.8	< 0.0010	0.001	
Sample Name: RJ Lee Grp. ID:	122216-НТ W612120-2	TE-P-CF-27 Matrix: Potable 7 27	Water	Date Received: Date Analyzed:	
Analy	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	0.9	0.1	Х
Lead		EPA 200.8	0.002	0.001	
Sample Name: RJ Lee Grp. ID:	122216-НТ W612120-2	TE-P-CDF-28 Matrix: Potable	Water	Date Received Date Analyzed	
Analy	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	0.96	0.01	
Lead		EPA 200.8	< 0.0010	0.001	
Sample Name: RJ Lee Grp. ID:	122216-НТ W612120-2	TE-P-CF-29 Matrix: Potable 29	Water	Date Received Date Analyzed	
Analy	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
G		EPA 200.8	0.90	0.01	
Copper		20000			

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Sample Name: RJ Lee Grp. ID:	122216-HT W612120-:	TE-P-CDF-30 Matrix: Potable V 30	Vater	Date Received Date Analyzed	
Analyt	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	0.89	0.01	
Lead		EPA 200.8	< 0.0010	0.001	
Sample Name: RJ Lee Grp. ID:	122216-HT W612120-	TE-P-OF-31 Matrix: Potable V 31	Water	Date Received: Date Analyzed:	
Analyt	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	1.0	0.1	Х
Lead		EPA 200.8	< 0.0010	0.001	
Sample Name: RJ Lee Grp. ID:	122216-HT W612120-		Water	Date Received Date Analyzed	
Analyt	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	1.4	0.1	Х
Lead		EPA 200.8	0.004	0.001	
ample Name: RJ Lee Grp. ID:	122216-HT W612120-:		Water	Date Received: Date Analyzed:	
Analyt	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	0.82	0.01	
Lead		EPA 200.8	< 0.0010	0.001	
ample Name: RJ Lee Grp. ID:	122216-HT W612120-	TE-P-CDF-34 Matrix: Potable V 34	Water	Date Received Date Analyzed	
Analyt	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	0.75	0.01	
Lead		EPA 200.8	< 0.0010	0.001	
Sample Name: RJ Lee Grp. ID:	122216-HT W612120-	TE-P-CF-35 Matrix: Potable V 35	Water	Date Received Date Analyzed	
Analyt	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	0.62	0.01	
		EPA 200.8	< 0.0010	0.001	

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Sample Name: RJ Lee Grp. ID:	122216-НТ W612120-:	TE-P-CDF-36 Matrix: Potable	e Water	Date Received: Date Analyzed:	
Analy	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	0.97	0.01	
Lead		EPA 200.8	< 0.0010	0.001	
Sample Name: RJ Lee Grp. ID:	122216-HT W612120-3	E-P-CF-37 Matrix: Potable	e Water	Date Received: Date Analyzed:	12/22/16 02/01/17
Analy	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	0.74	0.01	
Lead		EPA 200.8	< 0.0010	0.001	
Sample Name: RJ Lee Grp. ID:	122216-НТ W612120-:	TE-P-CDF-38 Matrix: Potable	e Water	Date Received: Date Analyzed:	12/22/16 02/01/17
Analy	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	0.70	0.01	
Lead		EPA 200.8	< 0.0010	0.001	
Sample Name: RJ Lee Grp. ID:	122216-НТ W612120-:	TE-P-CF-39 Matrix: Potable	e Water	Date Received: Date Analyzed:	12/22/16 02/01/17
Analy	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	0.64	0.01	
Lead		EPA 200.8	< 0.0010	0.001	
Sample Name: RJ Lee Grp. ID:	122216-НТ W612120-4	TE-P-CDF-40 Matrix: Potable	e Water	Date Received: Date Analyzed:	12/22/16 02/01/17
Analy	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	0.95	0.01	
Lead		EPA 200.8	< 0.0010	0.001	
Sample Name: RJ Lee Grp. ID:	122216-НТ W612120-4	TE-P-CF-41 Matrix: Potable	e Water	Date Received: Date Analyzed:	
Analy	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	0.61	0.01	

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Sample Name: RJ Lee Grp. ID:	122216-НТ W612120-4	Date Received: Date Analyzed:				
Analy	te	Method		Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8		0.56	0.01	
Lead		EPA 200.8		< 0.0010	0.001	
Sample Name: RJ Lee Grp. ID:	122216-НТ W612120-4	TE-P-OF-43 Matrix:	Potable Water		Date Received: Date Analyzed:	
Analy	te	Method		Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8		< 0.010	0.01	
Lead		EPA 200.8		< 0.0010	0.001	
Sample Name: RJ Lee Grp. ID:	122216-HT W612120-4	TE-P-OF-44 Matrix:	Potable Water		Date Received: Date Analyzed:	
Analy	te	Method		Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8		1.1	0.1	Х
Lead		EPA 200.8		0.013	0.001	
Report Qualifiers: A = Target Analyte media bre	eakthrough suspect.	see analytical report	<i>B</i> =	= Analyte detected in the ass	ociated blank	

Scientist III J Grissmerson

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any samples. Unless otherwise noted, samples were received in an acceptable condition. This laboratory operates in accordance with ISO 17025 guidelines, and holds limited scopes of accreditation under ORELAP Lab Code 4061 AIHA-LAP, LLC Lab ID 178656 EPA ID WA01195 and WA DOE Lab ID C859. This report may not be used to claim product endorsement by any laboratory accrediting agency. The results contained in this report relate only to the items tested or to the sample(s) as received by the laboratory. Any reproduction of this document must be in full for the report to be valid. Quality control data is available upon request.

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724.325.1776 Phone 724.733.1799 Fax	Pennsylvania - HQ 350 Hochberg Road Monroeville, PA 15146		Custody	Chain of		Custody	Chain of	1222	12221	1222	12221	1222/	1222/0	122216	9122216	1222/6	122216	12221	Clie	Special Instructions		0						10	Kesuits	Report				Only	Lab Use	ATTENTION TO:	5
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509.545.4989 Phone 509.544.6010 Fax	Washington Columbia Basin Analytical Laboratories 2710 North 20th Avenue Pasco, WA 99301		Name):	ture):		1000	ture):	DE-) (K	F-10 P	DE-09	F-08	0507	-06 R	2-05 K	1 10-37	FO3 Ki	4 207	15-01 N	Sample Description		-0839	Yakima, WA, 98901	406 North 2nd Street	Fulcrum Environmental			aenbysk@efulcrum	5	6E80-1	Yakima, WA, 98901	406 North 2nd Street	Fulcrum Environmental Consulting	k, Ryan Mathews			RYAN MATHEWS	
	tical Laboratories rue	2	B			N LOVER	n l	105 -	en 5 Sink	Ren4 DI=	Rmt Sink	km ZOF	m2 Sink	1)thems	Likhen Lin	tehen N Fay	itchen East	urses office	scription		Fax:			Email: lboutillier@efulcrum.net			aenbysk@efulcrum.net, CC: rmathews@efulcrum.net		Fax:			ulting		Logged In By:	Client No:		
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DELIVERING SCIENTIFIC RESOLUTION R LEE GROUP

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Dacon W/A 00201	2710 North 20th Avenue	Columbia Basin Analytical Laboratories	Washington

Pennsylvania - HQ

	Custody	Chain of		Custody	Chain of	122216	9/2221	122216	12.2216	1222	27716	122216	12221	122216	1222/6	12221	Clie	Instructions	Special		То	Send Invoice					i	To	Results	Deport			Only	Lab Use	ATTENTION TO:
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Request for Environmental and IH Laboratory Analytical Services

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DELIVERING SCIENTIFIC RESOLUTION

724.325.1776 Phone 724.733.1799 Fax

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