

RJ Lee Group, 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 46 sample(s) on 12/22/16 for analysis. These sample(s) have been assigned a login order number of W612124. 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.

All samples were diluted 1:10. Samples that exceeded the instrument calibration range were rerun at a 1:100 dilution, necessitating a 10-fold increase in the PQL. Each is noted with an "X" qualifier.

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:

02/22/17

Project Coordinator II, M. Fernanda Pincheira

Date

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



### **Laboratory Report**

RJ Lee Group No.:W612124 Ryan Mathews

COC No.: Kennewick Fulcrum Environmental Samples Received: 12/22/16 406 N. 2nd St. Analysis/Prep Date: 02/21/17 Yakima, WA 98901 Report Date: 02/22/17

Client Project:

Fulcrum Kennewick

Date Received: 12/22/16 Sample Name: 122216-EDE-P-NF-01 Matrix: Potable Water RJ Lee Grp. ID: W612124-01 **Date Analyzed:** 02/21/17

Method Result Analyte **POL Oualifiers** (mg/L)(mg/L)EPA 200.8 1.2 0.1 Copper Χ EPA 200.8 0.002 0.001 Lead

Date Received: 12/22/16 Sample Name: 122216-EDE-P-KF-02 Matrix: Potable Water W612124-02 Date Analyzed: 02/21/17 RJ Lee Grp. ID:

Method Result **PQL** Analyte **Qualifiers** (mg/L)(mg/L)Copper EPA 200.8 1.1 0.1 Χ Lead EPA 200.8 0.008 0.001

Sample Name: Date Received: 12/22/16 122216-EDE-P-KF-03 Matrix: Potable Water RJ Lee Grp. ID: W612124-03 Date Analyzed: 02/16/17

**Analyte** Method Result **PQL Qualifiers** (mg/L)(mg/L)EPA 200.8 0.94 0.01 Copper Lead EPA 200.8 0.005 0.001

Date Received: 12/22/16 Sample Name: 122216-EDE-P-KF-04 Matrix: Potable Water RJ Lee Grp. ID: W612124-04 Date Analyzed: 02/21/17

Analyte Method Result POL **Qualifiers** (mg/L)(mg/L)Copper EPA 200.8 1.1 0.1 Χ Lead EPA 200.8 0.003 0.001

Date Received: 12/22/16 Sample Name: 122216-EDE-P-CF-05 Matrix: Potable Water RJ Lee Grp. ID: W612124-05 Date Analyzed: 02/21/17

Result Method **Analyte PQL** Qualifiers (mg/L)(mg/L) X EPA 200.8 1.3 0.1 Copper Lead EPA 200.8 0.001 0.001

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02/22/17 14:03 Approved: Report Template: GenMetalReportFull v12.rpt Report Time Stamp: 02/22/17 15:12



Sample Name:	122216-EDE-P-CDF-06 <b>Matrix:</b> Potable Wat	Date Received:	12/22/16
RJ Lee Grp. ID:	W612124-06	Date Analyzed:	02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.4	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: 122216-EDE-P-CF-07 Matrix: Potable Water

RJ Lee Grp. ID: W612124-07

Matrix: Potable Water

Date Received: 12/22/16

Date Analyzed: 02/16/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.99	0.01	
Lead	EPA 200.8	0.001	0.001	

Sample Name: 122216-EDE-P-CDF-08Matrix: Potable Water

RJ Lee Grp. ID: W612124-08

Date Received: 12/22/16

Date Analyzed: 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.3	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: 122216-EDE-P-CF-09 Matrix: Potable Water

RJ Lee Grp. ID: W612124-09

Matrix: Potable Water

Date Received: 12/22/16

Date Analyzed: 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.3	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: 122216-EDE-P-CDF-10<sub>Matrix</sub>: Potable Water

RJ Lee Grp. ID: W612124-10

Date Received: 12/22/16

Date Analyzed: 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.5	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: 122216-EDE-P-CF-11 Matrix: Potable Water

RJ Lee Grp. ID: W612124-11

Date Received: 12/22/16

Date Analyzed: 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.1	0.1	X
Lead	EPA 200.8	0.001	0.001	



Sample Name: 122216-EDE-P-CDF-12Matrix: Potable Water

RJ Lee Grp. ID: W612124-12

Date Received: 12/22/16

Date Analyzed: 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.5	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: 122216-EDE-P-CF-13 Matrix: Potable Water

RJ Lee Grp. ID: W612124-13

Date Received: 12/22/16

Date Analyzed: 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.3	0.1	X
Lead	EPA 200.8	0.001	0.001	

Sample Name: 122216-EDE-P-CDF-14<sub>Matrix: Potable Water</sub>

RJ Lee Grp. ID: W612124-14

Date Received: 12/22/16

Date Analyzed: 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.4	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: 122216-EDE-P-CF-15 Matrix: Potable Water

RJ Lee Grp. ID: W612124-15

Matrix: Potable Water

Date Received: 12/22/16

Date Analyzed: 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.2	0.1	X
Lead	EPA 200.8	0.001	0.001	

Sample Name: 122216-EDE-P-CDF-16<sub>Matrix:</sub> Potable Water Date Received: 12/22/16

RJ Lee Grp. ID: W612124-16

Date Received: 12/22/16

Date Analyzed: 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.5	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: 122216-EDE-P-CF-17 Matrix: Potable Water

RJ Lee Grp. ID: W612124-17

Date Received: 12/22/16

Date Analyzed: 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.3	0.1	X
Lead	EPA 200.8	0.001	0.001	



Sample Name:	122216-EDE-P-CDF-18 <b>Matrix:</b>	Potable Water	Date Received:	12/22/16
RJ Lee Grp. ID:	W612124-18	Totable Water	Date Analyzed:	02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.4	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: 122216-EDE-P-CF-19 Matrix: Potable Water

RJ Lee Grp. ID: W612124-19

Date Received: 12/22/16

Date Analyzed: 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.5	0.1	X
Lead	EPA 200.8	0.004	0.001	

Sample Name: 122216-EDE-P-CF-20 Matrix: Potable Water

RJ Lee Grp. ID: W612124-20

Date Received: 12/22/16

Date Analyzed: 02/16/17

Analyte	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: 122216-EDE-P-CDF-21 Matrix: Potable Water

RJ Lee Grp. ID: W612124-21

Date Received: 12/22/16

Date Analyzed: 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.2	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: 122216-EDE-P-CF-22 Matrix: Potable Water

RJ Lee Grp. ID: W612124-22

Date Received: 12/22/16

Date Analyzed: 02/21/17

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Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.5	0.1	X
Lead	EPA 200.8	0.003	0.001	

Sample Name: 122216-EDE-P-CF-23 Matrix: Potable Water

RJ Lee Grp. ID: W612124-23

Date Received: 12/22/16

Date Analyzed: 02/16/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.99	0.01	_
Lead	EPA 200.8	0.001	0.001	



Sample Name: 122216-EDE-P-CDF-24Matrix: Potable Water

RJ Lee Grp. ID: W612124-24

Date Received: 12/22/16

Date Analyzed: 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.5	0.1	X
Lead	EPA 200.8	0.002	0.001	

Sample Name: 122216-EDE-P-CF-25 Matrix: Potable Water

RJ Lee Grp. ID: W612124-25

Matrix: Potable Water

Date Received: 12/22/16

Date Analyzed: 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.5	0.1	X
Lead	EPA 200.8	0.002	0.001	

Sample Name: 122216-EDE-P-CF-26 Matrix: Potable Water

RJ Lee Grp. ID: W612124-26

Date Received: 12/22/16

Date Analyzed: 02/16/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.89	0.01	
Lead	EPA 200.8	0.002	0.001	

Sample Name: 122216-EDE-P-CDF-27Matrix: Potable Water

RJ Lee Grp. ID: W612124-27

Date Received: 12/22/16

Date Analyzed: 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.4	0.1	X
Lead	EPA 200.8	0.001	0.001	

Sample Name: 122216-EDE-P-CF-28 Matrix: Potable Water

RJ Lee Grp. ID: W612124-28

Date Received: 12/22/16

Date Analyzed: 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.4	0.1	X
Lead	EPA 200.8	0.004	0.001	

Sample Name: 122216-EDE-P-CF-29 Matrix: Potable Water

RJ Lee Grp. ID: W612124-29

Date Received: 12/22/16

Date Analyzed: 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.1	0.1	X
Lead	EPA 200.8	0.001	0.001	



 Sample Name:
 122216-EDE-P-CDF-30 Matrix:
 Potable Water
 Date Received:
 12/22/16

 RJ Lee Grp. ID:
 W612124-30
 Date Analyzed:
 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.3	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: 122216-EDE-P-CF-31 Matrix: Potable Water

RJ Lee Grp. ID: W612124-31

Date Received: 12/22/16

Date Analyzed: 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.3	0.1	X
Lead	EPA 200.8	0.002	0.001	

Sample Name: 122216-EDE-P-CF-32 Matrix: Potable Water

RJ Lee Grp. ID: W612124-32

Date Received: 12/22/16

Date Analyzed: 02/16/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.91	0.01	
Lead	EPA 200.8	0.001	0.001	

Sample Name: 122216-EDE-P-CDF-33Matrix: Potable Water

RJ Lee Grp. ID: W612124-33

Date Received: 12/22/16

Date Analyzed: 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.5	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: 122216-EDE-P-CF-34 Matrix: Potable Water

RJ Lee Grp. ID: W612124-34

Date Received: 12/22/16

Date Analyzed: 02/16/17

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Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.93	0.01	
Lead	EPA 200.8	0.002	0.001	

Sample Name: 122216-EDE-P-CDF-35<sub>Matrix: Potable Water</sub>

RJ Lee Grp. ID: W612124-35

Date Received: 12/22/16

Date Analyzed: 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.3	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	



Sample Name: 122216-EDE-P-CF-36 Matrix: Potable Water

RJ Lee Grp. ID: W612124-36

Matrix: Potable Water

Date Received: 12/22/16

Date Analyzed: 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.5	0.1	X
Lead	EPA 200.8	0.004	0.001	

Sample Name: 122216-EDE-P-CF-37 Matrix: Potable Water

RJ Lee Grp. ID: W612124-37

Date Received: 12/22/16

Date Analyzed: 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.4	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: 122216-EDE-P-CDF-38<sub>Matrix: Potable Water</sub>

RJ Lee Grp. ID: W612124-38

Date Received: 12/22/16

Date Analyzed: 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.3	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: 122216-EDE-P-CF-39 Matrix: Potable Water

RJ Lee Grp. ID: W612124-39 Matrix: Potable Water

Date Received: 12/22/16

Date Analyzed: 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.3	0.1	X
Lead	EPA 200.8	0.003	0.001	

Sample Name: 122216-EDE-P-CF-40 Matrix: Potable Water

RJ Lee Grp. ID: W612124-40

Date Received: 12/22/16

Date Analyzed: 02/16/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.83	0.01	
Lead	EPA 200.8	0.002	0.001	

Sample Name: 122216-EDE-P-CDF-41<sub>Matrix: Potable Water</sub>

RJ Lee Grp. ID: W612124-41

Date Received: 12/22/16

Date Analyzed: 02/16/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.00	0.01	_
Lead	EPA 200.8	0.001	0.001	



Sample Name: 122216-EDE-P-CF-42 Matrix: Potable Water

RJ Lee Grp. ID: W612124-42

Matrix: Potable Water

Date Received: 12/22/16

Date Analyzed: 02/16/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.90	0.01	
Lead	EPA 200.8	0.002	0.001	

Sample Name: 122216-EDE-P-CDF-43<sub>Matrix</sub>: Potable Water

RJ Lee Grp. ID: W612124-43

Date Received: 12/22/16

Date Analyzed: 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.4	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

 Sample Name:
 122216-EDE-P-CF-44
 Matrix: Potable Water
 Date Received:
 12/22/16

 RJ Lee Grp. ID:
 W612124-44
 Date Analyzed:
 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.2	0.1	X
Lead	EPA 200.8	0.002	0.001	

 Sample Name:
 122216-EDE-P-KF-45
 Matrix:
 Potable Water
 Date Received:
 12/22/16

 RJ Lee Grp. ID:
 W612124-45
 Date Analyzed:
 02/16/17

Analyte	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:
 122216-EDE-P-DF-46
 Matrix:
 Potable Water
 Date Received:
 12/22/16

 RJ Lee Grp. ID:
 W612124-46
 Date Analyzed:
 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.3	0.1	X
Lead	EPA 200.8	0.016	0.001	



### Report Qualifiers:

 $A = Target\ Analyte\ media\ breakthrough\ suspect,\ see\ analytical\ report$ 

D = Analyte analyzed in a dilution

 $E = Report\ concentration\ was\ above\ the\ instrument\ calibration\ range$ 

J = Analyte detected below quantitation limits, concentration is estimated

P = Library spectrum match, rsd >90% w RT match

 $Q = Result \ out \ of \ method \ specific \ acceptance \ QC \ criteria$ 

S = Spike Recovery outside accepted recovery limits

Z = Not ELAP accredited analyte

ND = Not Detected

B = Analyte detected in the associated blank

d = Data that exceeds the RSD criteria set by the SOP

H = Holding times for preparation or analysis exceeded

L = Sample condition at receipt out of compliance with method defined conditions

R = RPD (relative percent difference) outside accepted recovery limits

 $U = Analyte \ analyzed \ for \ but \ not \ detected$ 

N/A = Not Applicable

### Scientist II DeNomy Dage

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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W612124, Page 12 of 1

ATTENTION TO: Send Invoice 1722 nstructions Custody Chain of Custody Chain of 222 Special Report Lab Use Results Only 22 5 Client Sample ID Relinquished By (Print Name): Relinquished By (Signature): Phone: Address: Project No.: Company Name: Relinquished By (Signature): Company Name: Relinquished By (Print Name): City, State, Zip: Company: Phone: Name: Lorrie Boutillier Fax Results To: City, State, Zip: Company: Name: Amanda Enbysk, Ryan Mathews Date Logged In: Call with Verbal Results: Address: mail Results To: Fulcrum Environmental 406 North 2nd Street Fulcrum Environmental Consulting 406 North 2nd Street (509) 574-0839 RYAN MATHEWS (509) 574-0839 Yakima, WA, 98901 aenbysk@efulcrum.net, CC: rmathews@efulcrum.net Yakima, WA, 98901 1-12 1 Sample Description 1000 1000 x r. 3 7 3 3 Fax: Email: lboutillier@efulcrum.net Fax: Logged In By: Client No: To uce Date: Relinquished To: Method of Shipment: Method of Shipment: Relinquished To: 22/1 509) 575-8453 509) 575-8453 Sample Date Start Time: Time: Stop Wipe Area / Air Sample Only Multiple Sources #s: EPA 200.8: Pb, Cu Analysis Key HNO3 Purchase Order No.: Turnaround Chemistry Custody Drinking Chain of Chain of Water Request Custody 4°C DOH Source #: Received By (Signature Received By (Print Nam System ID #: Standard: Sample Purpose: A Company Name: Unpres H<sub>2</sub>SO<sub>4</sub> Preservation: Company Name: Received By (Print Name): Received By (Signature): ample Purpose: Information X Regulatory Analysis Requested NaOH 띥 Yes N O GW=Groudwater WW=Wastewater Matrix: Other -If 'No,' No. of Business Days Accreditation (please list below): 0=0il Client Job No.: DW=Drinking Water SW=Surface Water Relinquished To: Method of Shipment: Date: Method of Shipment: Relinquished To: DEC 2 2 2016 Date: Pres. Upon Receipt (Y/N) Preservation Matrix P=Plastic G=Glass A=Air (filter or tube) W=Wipe Container 162017 Time: Container Type рΗ 1 1 No. Containers 6

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DELIVERING SCIENTIFIC RESOLUTION

Chain of Custody	Chain of Custody	122	777	777	Instructions	To Special	Send Invoice	612124, Page 13 Results	of 15 ATTENTION TO: Only
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W612124, Page 14 of 15

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