

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 36 sample(s) on 12/21/16 for analysis. These sample(s) have been assigned a login order number of W612101. 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.

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:

01/10/17

Project Coordinator II, M. Fernanda Pincheira

Date

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

Columbia Basin Analytical Laboratories | 2710 North 20th Avenue, Pasco WA 93301 | 509.545.4989

WWW.RJLEEGROUP.COM Approved: 01/10/17 10:05

Report Time Stamp: 01/10/17 16:13



Laboratory Report

Amanda Enbysk

RJ Lee Group No.:W612101

Fulcrum Environmental

COC No.: Kennewick Samples Received: 12/21/16

406 N. 2nd St. Yakima, WA 98901

Analysis/Prep Date: 01/07/17 Report Date: 01/10/17

Client Project:

Fulcrum Kennewick

Sample Name:

HMS122116-P-KF-01 Matrix: Potable Water

Date Received: 12/21/16

RJ Lee Grp. ID: W612101-01 **Date Analyzed:** 01/07/17 Result Analyte Method **POL Oualifiers** (mg/L)(mg/L) EPA 200.8 0.72 0.01 Copper EPA 200.8 0.001 0.001 Lead

Sample Name: RJ Lee Grp. ID:

HMS122116-P-KF-02

W612101-02

Matrix: Potable Water

Date Received: 12/21/16 **Date Analyzed:** 01/07/17

 Analyte
 Method
 Result (mg/L)
 PQL (mg/L)
 Qualifiers (mg/L)

 Copper
 EPA 200.8
 0.60
 0.01

 Lead
 EPA 200.8
 0.012
 0.001

Sample Name: RJ Lee Grp. ID:

HMS122116-P-KF-03 W612101-03

Matrix: Potable Water

Date Received: 12/21/16 **Date Analyzed:** 01/07/17

 Analyte
 Method
 Result (mg/L)
 PQL (mg/L)
 Qualifiers

 Copper
 EPA 200.8
 0.75
 0.01

 Lead
 EPA 200.8
 0.015
 0.001

Sample Name: RJ Lee Grp. ID:

HMS122116-P-DF-04

W612101-04

W612101-05

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/07/17

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

Sample Name: RJ Lee Grp. ID: HMS122116-P-WC-05

Matrix: Potable Water

Date Received: 12/21/16 **Date Analyzed:** 01/07/17

 Analyte
 Method
 Result (mg/L)
 PQL (mg/L)
 Qualifiers (mg/L)

 Copper
 EPA 200.8
 0.35
 0.01

 Lead
 EPA 200.8
 < 0.001</td>
 0.001

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Approved: 01/10/17 10:05 Report Time Stamp: 01/10/17 16:13

Report Template: GenMetalReportFull v12.rpt



Report Template: GenMetalReportFull_v12.rpt

Sample Name:	HMS122116-P-WC-06 Matrix :	Potable Water	Date Received:	12/21/16
RJ Lee Grp. ID:		1 otable water	Date Analyzed:	01/07/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.29	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: HMS122116-P-CF-07 Matrix: Potable Water

RJ Lee Grp. ID: W612101-07

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/07/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.87	0.01	
Lead	EPA 200.8	0.012	0.001	

Sample Name: HMS122116-P-CDF-08 Matrix: Potable Water

RJ Lee Grp. ID: W612101-08

Date Received: 12/21/16

Date Analyzed: 01/07/17

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

Sample Name: HMS122116-P-CF-09 Matrix: Potable Water Date Received: 12/21/16 Date Analyzed: 01/07/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.98	0.01	
Lead	EPA 200.8	0.020	0.001	

Sample Name: HMS122116-P-KF-10 Matrix: Potable Water

RJ Lee Grp. ID: W612101-10

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/07/17

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	Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Coppe	r	EPA 200.8	0.89	0.01	
Lead		EPA 200.8	< 0.001	0.001	

Sample Name: HMS122116-P-KF-11 Matrix: Potable Water

RJ Lee Grp. ID: W612101-11

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/07/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.65	0.01	_
Lead	EPA 200.8	< 0.001	0.001	



Report Template: GenMetalReportFull_v12.rpt

Sample Name: HMS122116-P-CF-12 Matrix: Potable Water Date Received: 12/21/16 Date Analyzed: 01/07/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.66	0.01	_
Lead	EPA 200.8	0.027	0.001	

Sample Name: HMS122116-P-CDF-13 Matrix: Potable Water RJ Lee Grp. ID: W612101-13 Date Analyzed: 01/07/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.71	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: HMS122116-P-CF-14 Matrix: Potable Water

RJ Lee Grp. ID: W612101-14

Date Received: 12/21/16

Date Analyzed: 01/07/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.80	0.01	
Lead	EPA 200.8	0.019	0.001	

Sample Name: HMS122116-P-WC-15 Matrix: Potable Water W612101-15 Date Received: 12/21/16 Date Analyzed: 01/07/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.19	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: HMS122116-P-DF-16 Matrix: Potable Water Date Received: 12/21/16

RJ Lee Grp. ID: W612101-16

Date Received: 12/21/16

Date Analyzed: 01/07/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.81	0.01	
Lead	EPA 200.8	0.002	0.001	

Sample Name: HMS122116-P-DF-17 Matrix: Potable Water

RJ Lee Grp. ID: W612101-17

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/07/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.71	0.01	_
Lead	EPA 200.8	0.001	0.001	



Report Template: GenMetalReportFull_v12.rpt

Sample Name:	HMS122116-P-WC-18 Matrix:	Potable Water	Date Received:	12/21/16
RJ Lee Grp. ID:	W612101-18		Date Analyzed:	01/07/17

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

Sample Name: HMS122116-P-WC-19 Matrix: Potable Water

RJ Lee Grp. ID: W612101-19

Date Received: 12/21/16

Date Analyzed: 01/07/17

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

Sample Name: HMS122116-P-CF-20 Matrix: Potable Water

RJ Lee Grp. ID: W612101-20

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/07/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.97	0.01	
Lead	EPA 200.8	0.019	0.001	

Sample Name: HMS122116-P-CF-21 Matrix: Potable Water Date Received: 12/21/16

RJ Lee Grp. ID: W612101-21 Date Analyzed: 01/07/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.74	0.01	
Lead	EPA 200.8	0.009	0.001	

Sample Name: HMS122116-P-CF-22 Matrix: Potable Water

RJ Lee Grp. ID: W612101-22

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/07/17

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Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.85	0.01	
Lead	EPA 200.8	0.009	0.001	

Sample Name: HMS122116-P-OF-23 Matrix: Potable Water

RJ Lee Grp. ID: W612101-23

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/07/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.97	0.01	_
Lead	EPA 200.8	< 0.001	0.001	



Sample Name:	HMS122116-P-OF-24	Matrix:	Potable Water	Date Received:	12/21/16
RJ Lee Grp. ID:	W612101-24	Mutilia.	1 otdole Water	Date Analyzed:	01/07/17

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: HMS122116-P-CF-25 Matrix: Potable Water Date Received: 12/21/16 Date Analyzed: 01/07/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.85	0.01	
Lead	EPA 200.8	0.008	0.001	

Sample Name: HMS122116-P-NF-26 Matrix: Potable Water Date Received: 12/21/16 Date Analyzed: 01/07/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.70	0.01	
Lead	EPA 200.8	0.005	0.001	

Sample Name: HMS122116-P-CDF-27 Matrix: Potable Water W612101-27 Date Analyzed: 01/07/17

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: HMS122116-P-CDF-28 Matrix: Potable Water RJ Lee Grp. ID: W612101-28 Date Analyzed: 01/07/17

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: HMS122116-P-CDF-29 Matrix: Potable Water Potable Water W612101-29 Date Analyzed: 01/07/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.98	0.01	_
Lead	EPA 200.8	< 0.001	0.001	



Sample Name:	HMS122116-P-WC-30 Matrix:	Potable Water	Date Received:	12/21/16
RJ Lee Grp. ID:	W612101-30	Totable Water	Date Analyzed:	01/07/17

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: HMS122116-P-WC-31 Matrix: Potable Water Potable Water W612101-31 Date Analyzed: 01/07/17

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: HMS122116-P-CF-32 Matrix: Potable Water

RJ Lee Grp. ID: W612101-32

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/07/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.96	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: HMS122116-P-CDF-33 Matrix: Potable Water RJ Lee Grp. ID: W612101-33 Matrix: Potable Water Date Analyzed: 01/07/17

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: HMS122116-P-CDF-34 Matrix: Potable Water RJ Lee Grp. ID: W612101-34 Date Analyzed: 01/07/17

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: HMS122116-P-CDF-35 Matrix: Potable Water RJ Lee Grp. ID: W612101-35 Date Analyzed: 01/07/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.3	0.1	X
Lead	EPA 200.8	0.014	0.001	



Sample Name: HMS122116-P-OF-36 Matrix: Potable Water Date Received: 12/21/16 Date Analyzed: 01/07/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	< 0.010	0.01	
Lead	EPA 200.8	< 0.001	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

J. Cano

- 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 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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Relinquished To:	Date:	Method of	Relinquished To:	Date: 12/21/14	Y					prop	Sep.			-	17/16/16 W	Sample Date		(509) 575-8453			Email: lboutillier@efulcrum.net			ws@efulcrum		(509) 575-8453					Ву:			
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RJ LEE GROUP

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Columbia Basin Analytical Laboratories 2710 North 20th Avenue

Washington

Request for Environmental and IH Laboratory Analytical Services Wwl2101

Part	Chain of Custody		Custody	Chain of	HMSIZZ	HMS122	Huns was	· HMS120	HMSIZZIII-P-	Hospani	HINSPAIN	11cciont	leeismy	おいいつつつ	PEISUNT.	Clic	Instructions	Special	Ī	To	Sand Invoice						Results		gc			Lab Use	ATTENTION TO:
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Turnaround Standurd: Yes No If 'No; No. of Business Days: Request	ature):		-	1	-	Classroon 17	Classroom 18	Center halling, Eastfixth	Center hallway, west fixt	Girls Locker Koom, Sser	Boy's Locker Koom, Ssinh	Compredeball, & entrance	Classian 20	Classroom 22	(lassroom 24)	Sample Description			a, WA, 98901	th 2nd Street		17		aenbysk@efulcrum.net, CC: rmathe	ts:		Yakima, WA, 98901	th 2nd Street	Environmental Consulting		Logged In I	Client No:	MATHEWS
Turnaround Standard: Yes No If No; No. of Business Days: Request	Date: Relinquisi	Method c	Relinquish	Date: 🔑	*	_		<i>b</i>	NO	K	,			-	12/21/16	Sample Date		Local on C	(509) 575		tillier@eful			ws@efulcrur		(509) 575					3у:		
Turnaround Request Request Sample Purpose: Information X Regulatory D Accreditation (please list be Sample Only Multiple Source 8: Diriking	Date: Relinquished To:	f Shipment:	ned To:	21/16												Start		0.00	-8453		crum.net			n.net		-8453							
Turnaround Request Sample Purpose: Information X. Regulatory D. Accreditation (please list be Sample Purpose: Information X. Regulatory D. Accreditation (please list be Sample Purpose: An B. D. Other D. Preservation: Marths: Sample Only Multiple Sources #: Sample Purpose: An B. D. Other D. Preservation: Marths: SW-Surface Water Unpreservation: WW-Wastewater Unpreservation: WW-Wastewater Unpreservation: WW-Wastewater Only Double Dublinking Water Other D. WW-Wastewater WW-Wastewater Double Dublinking Water Other Dublinking Water Other Dublinking Water Dublinking Water Pb. Cc. EPA Analysis Requested Analysis Requested Analysis Requested Chain of Received By (Surgatage) Chain of Received By (Signature): Received To. Company Name: Received By (Frint Name): Received To. Company Name: Received By (Signature): Date: Received By (Signature): Received By (Signatu	Time:			Time: 14												Stop																	
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Sample Purpose: Information X. Regulatory Accreditation (please list be System ID #: Sample Purpose: An B Other Preservation: Matrix: Unpress H,5O ₄ Watrix: Sw-Surface Water 4°C HCI S-Soil/Sludge Other Na,5O ₄ E-Extract X-Other	Chain of Custody		Custody	Chain of	~	-									×		200.8: Pb, Cu	EPA				_	Analysis Ke	Chemistry			Sample Onl	Water	Drinking		Request	Turnaroun	Purchase Ord
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Request for Environmental and IH Laboratory Analytical Services | Wel2|01

Address: 406 North 2nd Street City, State, Zip: Yakima, WA, 98901 Phone: Iorie Boutillier Rame: Iorie Boutillier Company: Fulcrum Environmental Email: Iboutillier@efulcrum.net City, State, Zip: Yakima, WA, 98901 Phone: (509) 574-0839 Phone: (509) 574-0839 Fax: (509) 575-8453 Is Sample ID Sample Description Start Stop Start Start Stop Start Start Stop Start S	Lab Use Pro Only Day	Project No.: Date Logged In: Name: Amanda Enbysk, Ryan Mathews Company: Fulcrum Environmental Co	RYAN MATHEWS Client No: In: Logged in By: Ida Enbysk, Ryan Mathews Fulcrum Environmental Consulting	y:					Purchase Order Turnaround Request Drinking	rder	rder No.: rder No.:	rder No.: Ind Standard: Yes No If 'No,' No t Sample Purpose: Information X Regulatory or g System ID #:	rder No.: Ind Standard: Yes No If 'No,' No t Sample Purpose: Information X Regulatory or g System ID #:	rder No.: rder No.:
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Request for Environmental and IH Laboratory Analytical Services

W612101, Page 12 of 12 ATTENTION TO: HM5122116-P-CDF-35 Send Invoice HMS122116-18-0F-36 Instructions TINGTHUL B-COT-34 Lab Use Chain of Custody Chain of Special Results Report Custody Only 5 ᇬ Client Sample ID Address: Phone: City, State, Zip: Company: Fulcrum Environmental Phone: Name: Amanda Enbysk, Ryan Mathews Date Logged In: Project No.: Name: Lorrie Boutillier Email Results To: City, State, Zip: Company: Fulcrum Environmental Consulting Relinquished By (Print Name) Relinquished By (Signature) Fax Results To: Company Name: Relinquished By (Print Name): Company Name: Call with Verbal Results: Relinquished By (Signature): ddress: 406 North 2nd Street 406 North 2nd Street (509) 574-0839 (509) 574-0839 **RYAN MATHEWS** aenbysk@efulcrum.net, CC: rmathews@efulcrum.net Yakima, WA, 98901 Yakima, WA, 98901 Ron 35 Classroom 7th Grade hall workroom Sample Description Fax: Logged In By: Client No: Fax: Email: {boutillier@efulcrum.net Method of Shipment: Relinquished To: Method of Shipment: Relinquished To: Date: 13/21/16 509) 575-8453 509) 575-8453 Sample Date 11/10/6 Start Time: Time: Stop N61210 Wipe Area / Alr Sample Only Multiple Sources #s: Purchase Order No.: EPA 200,8: Pb, Cu Analysis Key | HNO3 Turnaround Chemistry Request Drinking Chain of Custody Chain of Custody Water 4°C Received By (Priot Name): 17 Unpres H₂SO₄ DOH Source #: System ID #: Sample Purpose: Information X Standard: Received By (Signature): Company Names Preservation: Sample Purpose: A Company Name: Received By (Print Name): Analysis Requested NaOH 프 Na₂SO₄ Yes No WW=Wastewater GW=Groudwater S=Soil/Sludge Other o Regulatory o 100 If 'No,' No. of Business Days: Accreditation (please list below): Client Job No.: DW=Drinking Water SW=Surface Water BEC 2 1 2016 Method of Shipment: Relinquished To: Method of Shipment: Relinquished To: Pres. Upon Receipt (Y/N) Preservation Matrix G=Glass P=Plastic A=Air (filter or tube) W=Wipe Container 162017 Time: Time: Container Type 430 pΗ No. Containers 6

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