



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

CH2M Hill Plateau Remediation Company - C01282F
825 Jadwin Avenue
Richland, WA 99352

01/11/21
Contract: 74392

Subject: Chemical Analysis Report, SDG Number: RJLG20C0203

Columbia Basin Analytical Laboratories received 1 sample(s) on 12/09/20 for analysis. These sample(s) have been assigned a login order number of W012096, SDG number RJLG20C0203. Enclosed is the final report that consists of a summary report of the sample(s), and a copy of the chain of custody. If provided by customer on COC, sample volume is recorded on the laboratory report and has been used to calculate final results.

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. Results included in the report apply to the sample as it was received. Information provided by customer can affect validity of results. The sample(s) were prepared and analyzed in compliance with EPA 300.0. The working analytical concentration for samples prepared by this method is a 2x dilution of the digestate. This test report shall not be reproduced, except in full, without written approval of Columbia Basin Analytical Laboratories. Any questions, please contact our office.

X-flag: Samples received above temperature

We certify that this data package is in compliance with the SOW, both technically and for completeness, including a full description of, explanation of, and corrective actions for, any and all data deviations, from either the analyses requested or the case narrative requested. Release of the data contained in this data package has been authorized by the Laboratory Director or a designee and the laboratory's client service representative as verified by their signatures on this report. This report has been technically reviewed by the following individual:

12/21/20

Inorganics Manager Krystin Gilman

If you have any questions please feel free to contact Krystin Gilman at kgilman@rjleegroup.com or 509-545-4989.

This report has been administratively reviewed and approved by the following individual:

01/11/21

Project Manager JJ Furlong

Columbia Basin Analytical Laboratories | 2710 North 20th Avenue, Pasco WA 99301 | 509.545.4989

WWW.RJLEEGROUP.COM

Report Template: EnvironmentalA.rpt

Approved: 12/21/20 15:28
Report Time Stamp: 01/11/21 00:54



Heather Medley
 CH2M Hill Plateau Remediation
 Company - C01282F
 825 Jadwin Avenue
 Richland, WA 99352
 Client Project: Anions

Laboratory Report

RJ Lee Group No.: W012096
 SDG No: RJLG20C0203
 Samples Received: 12/09/20 14:55
 Analysis/Prep Date: 12/10/20 14:31
 Report Date: 01/11/21 00:54

Sample Name: B3VKX3 **Date Sampled:** 12/09/20 13:37
RJ Lee Grp. ID: W012096-01 **Matrix:** Water **Date Analyzed:** 12/10/20 14:31

Analyte	Method	Result µg/mL	PQL µg/mL	MDL µg/mL	Dilution Factors	Qualifiers
Nitrate as NO ₃ -N	EPA 300.0	4.96	0.23	0.12	10	X, D
Orthophosphate PO ₄ -P	EPA 300.0	< 0.05	0.10	0.05	2	X, U, D



Heather Medley
 CH2M Hill Plateau
 Remediation Company -
 825 Jadwin Avenue
 Richland, WA 99352
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Quality Control

Water

RJ Lee Group No.: W012096
 SDG No.: RJLG20C0203
 Batch No.: BL00046
 Samples Received: 12/09/20 14:55
 Analysis/Prep Date: 12/10/20 12:19
 Report Date: 01/11/21 00:54

Analyte	CAS NO.	QC Sample ID	Expected µg/mL	Result µg/mL	MDL µg/mL	PQL µg/mL	RPD	% REC	Recovery Limits	Qualifier & Comments
Nitrate as NO3-N	14797-55-8	Blank	<0.01	<0.01	0.01	0.02				U BL00046
Orthophosphate PO4-P	14265-44-2	Blank	<0.03	<0.03	0.03	0.05				U BL00046
Nitrate as NO3-N	14797-55-8	LCS	1.13	1.07	0.01	0.02		94.8	80 - 120	
Orthophosphate PO4-P	14265-44-2	LCS	2.45	2.32	0.03	0.05		95.0	80 - 120	
Nitrate as NO3-N	14797-55-8	Matrix Spike	1.38	1.32	0.24	0.46		94.5	75 - 125	D BL00046
Orthophosphate PO4-P	14265-44-2	Matrix Spike	2.45	2.42	0.05	0.10		98.7	75 - 125	D BL00046
Nitrate as NO3-N	14797-55-8	Matrix Spike Dup	1.38	1.31	0.24	0.46	0.69	93.7	75 - 125	D BL00046
Orthophosphate PO4-P	14265-44-2	Matrix Spike Dup	2.45	2.44	0.05	0.10	0.99	99.7	75 - 125	D BL00046

Report Qualifiers:

- > = Result greater than quantifiable range or greater than upper limit of the analysis range
- B = Inorganics and Wetchem: The analyte was detected at a value <RDL, but ≥IDL/MDL (as appropriate)
- Organics: The analyte was detected in both the associated QC blank and in the sample, and the blank concentration exceeded the customer's contractual requirements
- C = The analyte was detected in both the sample and the associated QC blank, and the sample concentration was ≤ 5X the blank concentration
- D = Analyte was reported at a secondary dilution factor
- J = Organics: Estimated value; (1) constituent detected at a level <RDL or PQL and ≥MDL and estimated concentrations of TICs
- o = All: The associated LCS recovery is outside control limits
- N = Spike and/or spike duplicate sample recovery is outside control limits
- U = Analyzed for but not detected above limiting criteria
- X or Y or Z = The result-specific translation of this qualifier code is provided in the hardcopy data report and/or case narrative. Additional result-specific translation information may also be found in the RESULT_COMMENT field for this record.

Inorganics Manager Krystin Gilman

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.

COLLECTOR
Larry Rosane
/CHPRC

COMPANY CONTACT
SUMNER, LC

TELEPHONE NO.
376-3922

PROJECT COORDINATOR
SUMNER, LC

REQUIRED TAT
30 Days

SAMPLING LOCATION
D0140 I-011

PROJECT DESIGNATION
200-ZP-1 Extraction Wells Sampling and Analysis - Water

SAFE NO.
F20-016

PURCHASE ORDER/CHARGE CODE
302938

METHOD OF SHIPMENT
FEDERAL EXPRESS

ICE CHEST NO.
D1A

FIELD LOGBOOK NO.
HNF-N-645 9.44

ACTUAL SAMPLE DEPTH
534.57

ORIGINAL

7.8

SHIPPED TO
CH2M Hill Plateau Remediation Co

RS Lee

OFFSITE PROPERTY NO.

D1A

BILL OF LADING/AIR BILL NO.
D1A

RU620C0203

MATRIX*
A=Air
DI=Drum
Liquids
DS=Drum
Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
*Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

PRESERVATION
Cool < -6C

HOLDING TIME
48 Hours

TYPE OF CONTAINER
G/P

NO. OF CONTAINER(S)
1

VOLUME
125mL

SPECIAL HANDLING AND/OR STORAGE
N/A

SAMPLE ANALYSIS
SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME
B3VXX3	No	WATER	DEC 09 2020	1337

RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane CHPRC	DEC 09 2020 1400	Jamelle Zunyer CHPRC	Jamelle Zunyer CHPRC	DEC 09 2020 1400
Jamelle Zunyer CHPRC	DEC 09 2020 1455	Jamelle Zunyer CHPRC	Jamelle Zunyer CHPRC	DEC 09 2020 1455

CHAIN OF POSSESSION
SPECIAL INSTRUCTIONS
TRVL-20-061
(1) 9056_ANIONS_IC: COMMON {Nitrogen in Nitrate}; 9056_ANIONS_IC: COMMON (Add-on) {Phosphorus in phosphate};

FINAL SAMPLE DISPOSITION

DISPOSAL METHOD

DISPOSED BY

DATE/TIME

January 13, 2021

W012096

RJ Lee Group Inc

Client: CH2M Hill Plateau Remediation Company - C01282F Project: Anions COC #: F20-016	Project Manager: Krystin Gilman Project Number: 74392 SDG Number: RJLG20C0203
PO #: 302938	

Report To: CH2M Hill Plateau Remediation Company - C01282F Heather Medley 825 Jadwin Avenue Richland, WA 99352 Phone: (509) 373-6909 Fax:	Invoice To: CH2M Hill Plateau Remediation Company - C01282F Sample Management 825 Jadwin Avenue Richland, WA 99352 Phone: (509) 376-6427 Fax:
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Date Due: 1/8/2021 (19 day TAT)	
Received By: Lynn Porter	Date Received: 12/09/20 14:55
Logged In By: Lynn Porter	Date Logged In: 12/09/20 16:12

Samples Received at:	7.8°C	Received above 6 deg C.
Custody Seals	Yes	
Containers Intact	Yes	
COC/Labels Agree	Yes	
Preservation Confirmed	No	
Received On Ice	Yes	

RJLG ID	Sample Name	Analysis	Matrix	Date Sampled	TAT	Date Due
W012096-01	B3VKX3 F20-016-165	Anions by EPA 300	Non-Potable Water	12/09/20 13:37	19	1/8/2021