GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

July 01, 2025

Ms. Heather Medley
Central Plateau Cleanup Company
200 East / MO-277 / 108
PO Box 1600
Richland, Washington 99352

Re: SAF T25
Work Order: 728604
SDG: GEL728604

Dear Ms. Medley:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 12, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4505.

Sincerely,

MCaroline Stover
Mary Stover for
Heather Shaffer
Project Manager

Purchase Order: 901893- 7H
Chain of Custody: T25-059-017
Enclosures

problem solved

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Case Narrative

General Narrative
for
Central Plateau Cleanup Company (89223)
SAF T25
SDG: GEL728604

July 01, 2025

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary

Sample receipt

The sample(s) arrived at GEL Laboratories, LLC, Charleston, South Carolina on June 12, 2025, for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Items of Note All efforts were made by the lab to meet any short hold times. Samples that were analyzed outside of the initial hold time but still within 2X hold time will be noted in the lab case narrative.

Sample Identification
The laboratory received the following samples:

Laboratory Identification	Sample Description
728604001	B4MCC4
728604002	B4MCC6

Case Narrative

Sample analyses were conducted using methodology as outlined in GEL Laboratories, LLC (GEL) Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

Data Package

The enclosed data package contains the following sections: General Narrative, Chain of Custody and Supporting Documentation, and data from the following fractions: Metals and General Chemistry.

We certify that this package is in compliance with the Analytical Laboratory Services for Central Plateau Cleanup Company Statement of Work, both technically and for completeness, including a full description of, explanation of, and corrective actions for, any and all deviations, from either the analyses requested or the case narrative requested. Release of the data contained in this data package deliverable has been authorized by the Laboratory Analytical Manager (or designee) and the laboratory's client services representative as verified by their signatures on this report.

Mary Stover for
Heather Shaffer
Project Manager

GEL Laboratories LLC 2040 Savage Road | Charleston, SC 29407 843.556.8171 gel.com

Technical Case Narrative
Central Plateau Cleanup Company
SDG #: GEL728604
Work Order #: 728604

Metals

Determination of Metals by ICP

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Alkalinity

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to limited sample volume. 1206147393 (Non SDG 728556001DUP), 1206147394 (Non SDG 728556001MS), 1206147395 (Non SDG 728597015DUP) and 1206147396 (Non SDG 728597015MS).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Chain of Custody and Supporting Documentation

Central Plateau Cleanup Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # T25-059-017

PAGE 1 OF 1

Collector:	Scott Harder / CPCC	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	T25-059	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	901765
Project Title:	100-KR-4 Rebound Study, June 2025	**Logbook No.:**	HNF-N-506 143	**Ice Chest No.:**	jws-004
Shipped To (Lab):	GEL Laboratories, LLC	**Method of Shipment:**	Commercial Carrier	**Bill of Lading/Air Bill No.:**	8819 4770 8340
Protocol:	CERCLA	**Priority:**	30 Days	**Offsite Property No.:**	N/A

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

SPECIAL INSTRUCTIONS

THIS SAF IS NOT TO BE PUT IN AN SDG WITH OTHER SAFS.

Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservation
B4MCC4	N	W	JUN 10 2025	1057	1x250-mL G/P	2320B_ALKALINITY: COMMON	14 Days	Cool <=6C
B4MCC4	N	W	"	"	1x500-mL G/P	SMR_GW6010_01	6 Months	HNO3 to pH <2
B4MCC6	Y	W	"	"	1x500-mL G/P	SMR_GW6010_01	6 Months	HNO3 to pH <2

Relinquished By			Received By		
Print First and Last Name	*Signature*	*Date/Time*	*Print First and Last Name*	*Signature*	*Date/Time*
Scott Harder / CPCC		JUN 10 2025 1155	Janelle Zunker CPCC		JUN 10 2025 1155
Janelle Zunker CPCC		JUN 10 2025 1700	SSU-1		JUN 10 2025 1200
SSU-1		JUN 11 2025 0650	Anthony Noggles / CPCC		JUN 11 2025 0650
Anthony Noggles / CPCC		JUN 11 2025 1400	FEDEX		
FedEx			Stacy Boone		JUN 12 2025 920

Matrix *

S	= Soil	DS	= Drum Solids
SE	= Sediment	DL	= Drum Liquids
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wipe
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

Printed On 4/1/2025 FSR ID = FSR157192 Report Format: 02/29/2024

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: CPRC | SDG/AR/COC/Work Order: 728604 | GEL PM: HS

Received By: Mary Boone | Date Received at GEL: 6/12/25

Courier (Circle Applicable): FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR1-24 · Daily Calibration Performed? (Y) N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
8819 5327 8934	1		8819 4770 8340	3	
4778 3015	4				
5155 4120	3				
5362 5666	2				
5719 5686	5				

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		/	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?	/		COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?	/		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 9 (CPM) mR/Hr. Classified as: (Rad 1) Rad 2 Rad 3
D) Are there any sample hazards to document?		/	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		/	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	/			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	/			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	/			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	/			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	/			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)	/			If Yes, are Encores or Soil Kits present? Yes___ No / (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA / (If unknown, select No) Are liquid VOA vials free of headspace? Yes / No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	/			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	/			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	/			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	/			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?			/	
12	COC form is properly signed in relinquished/received sections?	/			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials HH Date 06/13/25

☐ Continuation Form Required when selected

GL-CHL-SR-001 Rev 8

Data Review Qualifier Definitions

GEL LABORATORIES LLC
2040 Savage Road Charleston, SC 29407 (843) 556-8171

Project Specific Qualifier Definitions for GEL Client Code: CPRC

Qualifier	Qualifier Definition	Department	Fraction
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.		
J	Value is estimated		
P	Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, the difference is >70%.	Organics	
C	Analyte has been confirmed by GC/MS analysis	Organics	Pesticide
B	The target analyte was detected in the associated blank.	Organics	
E	Concentration of the target analyte exceeds the instrument calibration range	Organics	
A	The TIC is a suspected aldol-condensation product	Organics	Semi-Volatile
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier		
N	Metals--The Matrix spike sample recovery is not within specified control limits	Inorganics	
*	A quality control analyte recovery is outside of specified acceptance criteria		
N	Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor	Organics	Semi-Volatile
H	Analytical holding time was exceeded		
**	Analyte is a surrogate compound	Organics	
<	Result is less than value reported		
>	Result is greater than value reported		
UI	Gamma Spectroscopy--Uncertain identification	Radiological	
BD	Results are either below the MDC or tracer recovery is low	Radiological	
h	Preparation or preservation holding time was exceeded		
R	Sample results are rejected		
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.	General Chemistry	General Chem
d	5-day BOD--The 2:1 depletion requirement was not met for this sample	General Chemistry	
B	Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL	Inorganics	Metals
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.		
D	Results are reported from a diluted aliquot of the sample	Organics	
N/A	RPD or %Recovery limits do not apply.		
ND	Analyte concentration is not detected above the detection limit		
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria	Inorganics	Metals
M	M if above MDC and less than LLD	Radiological	
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier		
FA	Failed analysis.	Radiological	Bioassay
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range	General Chemistry	General Chem
JNX	Non Calibrated Compound	Organics	Volatile
UJ	Compound cannot be extracted	Organics	Semi-Volatile

Project Specific Qualifier Definitions for GEL Client Code: CPRC

Qualifier	Qualifier Definition	Department	Fraction
UJ	Gamma Spectroscopy--Uncertain identification	Radiological	Rad
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.		
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.	Radiological	
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.	Radiological	
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.	Radiological	
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies	Inorganics	Metals
N1	See case narrative		
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.	Inorganics	
Y	QC Samples were not spiked with this compound	Organics	
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.	General Chemistry	General Chem
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.	Radiological	Rad
**	Analyte is a Tracer compound	Radiological	
B	The target analyte was detected in the associated blank.	General Chemistry	
N	Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor	Organics	Volatile
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes	General Chemistry	General Chem
M	REMP Result > MDC/CL and < RDL	Radiological	
I	Analyte does not meet the Ion Abundance Ratio and should be considered an estimated concentration.	Organics	LC-MS/MS
FG	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier	Organics	LC-MS/MS
XG	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier	Organics	LC-MS/MS
G	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier	Organics	LC-MS/MS
x	Subaliquot was taken. See Case Narrative for details.		

Laboratory Certifications

List of current GEL Certifications as of 01 July 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Metals Analysis

Case Narrative

Metals
Technical Case Narrative
Central Plateau Cleanup Company
SDG #: GEL728604
Work Order #: 728604

Product: **Determination of Metals by ICP**
Analytical Method: SW846 3005A/6010D
Analytical Procedure: GL-MA-E-013 REV# 34
Analytical Batch: 2813022

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2813021

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
728604001	B4MCC4
728604002	B4MCC6
1206139405	Method Blank (MB)**ICP**
1206139406	Laboratory Control Sample (LCS)
1206139410	728604001(B4MCC4L) Serial Dilution (SD)
1206139407	728604001(B4MCC4S) Matrix Spike (MS)
1206139408	728604001(B4MCC4SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Qualifier Definition Report
for

CPRC003 Central Plateau Cleanup Company (89223)

Client SDG: GEL728604 GEL Work Order: 728604

The Qualifiers in this report are defined as follows:

* Duplicate analysis not within control limits

B The analyte was detected at a value less than the contract required detection limit (RDL), but greater than or equal to the IDL/MDL (as appropriate).

D Results are reported from a diluted aliquot of sample.

N/A

U Analyzed for but not detected above the MDL, MDA, MDC or LOD.

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature: **Name:** **Alan Stanley**

Date: **01 JUL 2025** **Title:** **Analyst III - Team Leader**

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: GEL728604 **CONTRACT:** CPRC0T25 **METHOD TYPE:** SW846

SAMPLE ID: 728604001 **LEVEL:** Low **DATE COLLECTED:** 10-JUN-25

CLIENT ID: B4MCC4 **%SOLIDS:** 0 **DATE RECEIVED:** 12-JUN-25

MATRIX: WATER **BASIS:** As Received

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-70-2	Calcium	44300	ug/L		50.0	200	200	1	P	JWJ	06/19/25 11:58	061925-1	2813022
7439-89-6	Iron	59.7	ug/L	B	30.0	100	100	1	P	JWJ	06/19/25 11:58	061925-1	2813022
7439-95-4	Magnesium	13000	ug/L		110	300	300	1	P	JWJ	06/19/25 11:58	061925-1	2813022
7440-09-7	Potassium	5820	ug/L		50.0	250	250	1	P	JWJ	06/19/25 11:58	061925-1	2813022
7440-23-5	Sodium	15100	ug/L		100	300	300	1	P	JWJ	06/19/25 11:58	061925-1	2813022
7440-62-2	Vanadium	12.3	ug/L		1.00	5.00	5.00	1	P	JWJ	06/19/25 11:58	061925-1	2813022
7440-66-6	Zinc	10.6	ug/L	B	3.30	20.0	20.0	1	P	JWJ	06/19/25 11:58	061925-1	2813022

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2813022	2813021	SW846 3005A	50	mL	50	mL	06/18/25	BB2

***Analytical Methods:**

P **SW846 3005A/6010D**

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: GEL728604 **CONTRACT:** CPRC0T25 **METHOD TYPE:** SW846

SAMPLE ID: 728604002 **LEVEL:** Low **DATE COLLECTED:** 10-JUN-25

CLIENT ID: B4MCC6 **%SOLIDS:** 0 **DATE RECEIVED:** 12-JUN-25

MATRIX: WATER **Dissolved Metals** **BASIS:** Filtered

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-70-2	Calcium	43400	ug/L		50.0	200	200	1	P	JWJ	06/19/25 12:09	061925-1	2813022
7439-89-6	Iron	30.0	ug/L	U	30.0	100	100	1	P	JWJ	06/19/25 12:09	061925-1	2813022
7439-95-4	Magnesium	13400	ug/L		110	300	300	1	P	JWJ	06/19/25 12:09	061925-1	2813022
7440-09-7	Potassium	5820	ug/L		50.0	250	250	1	P	JWJ	06/19/25 12:09	061925-1	2813022
7440-23-5	Sodium	14700	ug/L		100	300	300	1	P	JWJ	06/19/25 12:09	061925-1	2813022
7440-62-2	Vanadium	11.7	ug/L		1.00	5.00	5.00	1	P	JWJ	06/19/25 12:09	061925-1	2813022
7440-66-6	Zinc	10.1	ug/L	B	3.30	20.0	20.0	1	P	JWJ	06/19/25 12:09	061925-1	2813022

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2813022	2813021	SW846 3005A	50	mL	50	mL	06/18/25	BB2

***Analytical Methods:**

P **SW846 3005A/6010D**

Quality Control Summary

GEL LABORATORIES LLC
2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: July 1, 2025

Central Plateau Cleanup Company
200 East / MO-277 / 108
PO Box 1600
Richland, Washington

Contact: **Ms. Heather Medley**

Workorder: **728604**

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Metals Analysis-ICP											
Batch 2813022											
QC1206139406 LCS											
Calcium	5000			4860	ug/L		97.3	(80%-120%)	JWJ	06/19/25	11:55
Iron	5000			4860	ug/L		97.3	(80%-120%)			
Magnesium	5000			4750	ug/L		95	(80%-120%)			
Potassium	5000			4890	ug/L		97.7	(80%-120%)			
Sodium	5000			4860	ug/L		97.2	(80%-120%)			
Vanadium	500			477	ug/L		95.4	(80%-120%)			
Zinc	500			462	ug/L		92.5	(80%-120%)			
QC1206139405 MB											
Calcium			U	50.0	ug/L					06/19/25	11:53
Iron			U	30.0	ug/L						
Magnesium			U	110	ug/L						
Potassium			U	50.0	ug/L						
Sodium			U	100	ug/L						

GEL LABORATORIES LLC
2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: **728604**

Parmname	NOM		Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date Time
Metals Analysis-ICP											
Batch 2813022											
Vanadium				U	1.00	ug/L				JWJ	06/19/25 11:53
Zinc				U	3.30	ug/L					
QC1206139407 728604001 MS											
Calcium	5000		44300		49300	ug/L		N/A	(75%-125%)		06/19/25 12:00
Iron	5000	B	59.7		4900	ug/L		96.8	(75%-125%)		
Magnesium	5000		13000		17400	ug/L		88.2	(75%-125%)		
Potassium	5000		5820		11200	ug/L		108	(75%-125%)		
Sodium	5000		15100		20100	ug/L		101	(75%-125%)		
Vanadium	500		12.3		502	ug/L		97.9	(75%-125%)		
Zinc	500	B	10.6		481	ug/L		94	(75%-125%)		
QC1206139408 728604001 MSD											
Calcium	5000		44300		49700	ug/L	0.715	N/A	(0%-20%)		06/19/25 12:02
Iron	5000	B	59.7		4930	ug/L	0.517	97.3	(0%-20%)		
Magnesium	5000		13000		17400	ug/L	0.0518	88.4	(0%-20%)		
Potassium	5000		5820		11300	ug/L	0.55	110	(0%-20%)		
Sodium	5000		15100		20200	ug/L	0.501	103	(0%-20%)		

GEL LABORATORIES LLC
2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: **728604**

Parmname	NOM		Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date Time
Metals Analysis-ICP											
Batch 2813022											
Vanadium	500		12.3		508	ug/L	1.22	99.1	(0%-20%)	JWJ	06/19/25 12:02
Zinc	500	B	10.6		485	ug/L	0.886	94.9	(0%-20%)		
QC1206139410 728604001 SDILT											
Calcium			44300	D	9100	ug/L	2.57		(0%-20%)		06/19/25 12:07
Iron		B	59.7	BD	47.1	ug/L	294		(0%-20%)		
Magnesium			13000	D	2640	ug/L	1.99		(0%-20%)		
Potassium			5820	D	1190	ug/L	2.36		(0%-20%)		
Sodium			15100	D	3100	ug/L	2.9		(0%-20%)		
Vanadium			12.3	BD	2.75	ug/L	12.4		(0%-20%)		
Zinc		B	10.6	BD	6.12	ug/L	188		(0%-20%)		

Notes:

The Qualifiers in this report are defined as follows:

- U Analyzed for but not detected above the MDL, MDA, MDC or LOD.
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Spike Sample recovery is outside control limits.
- * Duplicate analysis not within control limits
- Z Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- B The analyte was detected at a value less than the contract required detection limit (RDL), but greater than or equal to the IDL/MDL (as appropriate).
- D Results are reported from a diluted aliquot of sample.
- E Reported value is estimated due to interferences. See comment in narrative.
- M Duplicate precision not met.
- S Reported value determined by the Method of Standard Additions (MSA)

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QC Summary

Workorder: **728604**

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time

W Post-digestion spike recovery for GFAA out of control limit. Sample absorbency < 50% of spike absorbency.

Y Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

\+ Correlation coefficient for Method of Standard Additions (MSA) is < 0.995

C Target analyte was detected in the sample and the associated blank. The associated blank concentration is >= EQL or is > 5% of the measured concentration and/or decision level for associated samples.

H Laboratory holding time exceeded before the sample was analyzed.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

General Chem Analysis

Case Narrative

General Chemistry
Technical Case Narrative
Central Plateau Cleanup Company
SDG #: GEL728604
Work Order #: 728604

Product: **Alkalinity**
Analytical Method: 2320B_ALKALINITY
Analytical Procedure: GL-GC-E-033 REV# 17
Analytical Batch: 2816956

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
728604001	B4MCC4
1206147392	Laboratory Control Sample (LCS)
1206147393	728556001(NonSDG) Sample Duplicate (DUP)
1206147394	728556001(NonSDG) Matrix Spike (MS)
1206147395	728597015(NonSDG) Sample Duplicate (DUP)
1206147396	728597015(NonSDG) Matrix Spike (MS)
1206147397	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to limited sample volume. 1206147393 (Non SDG 728556001DUP), 1206147394 (Non SDG 728556001MS), 1206147395 (Non SDG 728597015DUP) and 1206147396 (Non SDG 728597015MS).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

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Qualifier Definition Report
for

CPRC003 Central Plateau Cleanup Company (89223)

Client SDG: GEL728604 GEL Work Order: 728604

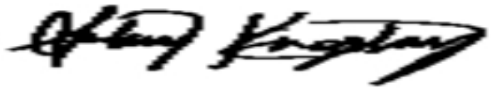
The Qualifiers in this report are defined as follows:

U Analyzed for but not detected above the MDL, MDA, MDC or LOD.

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature:  **Name: Aubrey Kingsbury**

Date: 07 JUL 2025 **Title: Analyst III**

Sample Data Summary

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: July 7, 2025

Company :	Central Plateau Cleanup Company
Address :	200 East / MO-277 / 108 PO Box 1600 Richland, Washington 99352
Contact:	Ms. Heather Medley
Project:	SAF T25

Client Sample ID:	B4MCC4	Project:	CPRC0T25
Sample ID:	728604001	Client ID:	CPRC003
Matrix:	WATER		
Collect Date:	10-JUN-25 10:57		
Receive Date:	12-JUN-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
2320_ALKALINITY: COMMON (Alkalinity only) "As Received"												
Alkalinity, Total as CaCO3		126000	725	2000	ug/L			IS2	06/20/25	1204	2816956	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	2320B_ALKALINITY	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

Quality Control Summary

GEL LABORATORIES LLC
2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: July 7, 2025

Central Plateau Cleanup Company
200 East / MO-277 / 108
PO Box 1600
Richland, Washington

Contact: **Ms. Heather Medley**

Workorder: **728604**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Titration and Ion Analysis										
Batch 2816956										
QC1206147393 728556001 DUP										
Alkalinity, Total as CaCO3		98600		99000	ug/L	0.434		(0%-20%)	IS2	06/20/25 11:27
QC1206147395 728597015 DUP										
Alkalinity, Total as CaCO3		79700		80300	ug/L	0.714		(0%-20%)		06/20/25 11:54
QC1206147392 LCS										
Alkalinity, Total as CaCO3	15000			14100	ug/L		94	(80%-120%)		06/20/25 11:15
QC1206147397 LCS										
Alkalinity, Total as CaCO3	50000			53900	ug/L		108	(80%-120%)		06/20/25 11:21
QC1206147394 728556001 MS										
Alkalinity, Total as CaCO3	71400	98600		171000	ug/L		101	(75%-125%)		06/20/25 11:30
QC1206147396 728597015 MS										
Alkalinity, Total as CaCO3	71400	79700		141000	ug/L		85.8	(75%-125%)		06/20/25 11:55

Notes:

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- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Spike Sample recovery is outside control limits.
- > Result greater than quantifiable range or greater than upper limit of the analysis range
- Z Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- D Results are reported from a diluted aliquot of sample.
- E Reported value is estimated due to interferences. See comment in narrative.
- Y Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- B The analyte was detected at a value less than the contract required detection limit (RDL), but greater than or equal to the IDL/MDL (as appropriate).

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QC Summary

Workorder: **728604**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

C Target analyte was detected in the sample and the associated blank. The associated blank concentration is >= EQL or is > 5% of the measured concentration and/or decision level for associated samples.

< Sample is below the EPA guidance level for Reactive Releasable Cyanide and/or Reactive Releasable Sulfide

H Laboratory holding time exceeded before the sample was analyzed.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.