



March 23, 2021

Mr. Scot Fitzgerald
Central Plateau Cleanup Company
MSIN R3-50
PO Box 1600
Richland, Washington 99352

Re: SAF I21-018
Work Order: 537550
SDG: GEL537550

Dear Mr. Fitzgerald:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 12, 2021. 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,

Clare Drennen for
Heather Shaffer
Project Manager

Purchase Order: 900152 + 7H
Chain of Custody: I21-018-058, I21-018-063 and I21-018-076
Enclosures

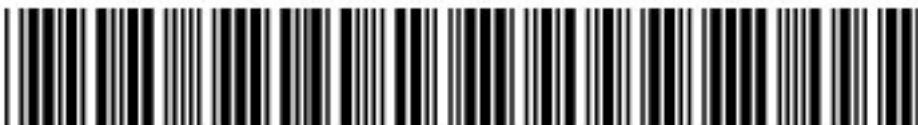


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Case Narrative

**General Narrative
for
Central Plateau Cleanup Company (74393)
SAF I21-018
SDG: GEL537550**

March 23, 2021

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 March 12, 2021, 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:

<u>Laboratory Identification</u>	<u>Sample Description</u>
537550001	B403R8
537550002	B403V0
537550003	B40486

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: General Chemistry.

We certify that this package is in compliance with the Analytical Laboratory Services for CH2M Hill Plateau Remediation 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.



Clare Drennen for
Heather Shaffer
Project Manager

**General Chemistry
Technical Case Narrative
Central Plateau Cleanup Company
SDG #: GEL537550
Work Order #: 537550**

Ion Chromatography

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.

Technical Information

Holding Times

Samples (See Below) were received with insufficient time to prep and/or analyze within the recommended method-specified holding time. The analysis was performed as soon as possible by the analyst. The data is qualified.

Sample	Analyte	Value
1204772560 (Non SDG 537544004DUP)	Nitrite-N	Received 12-MAR-21, within holding, analyzed 12-MAR-21, out of holding 12-MAR-21
1204772561 (Non SDG 537544004PS)	Nitrite-N	Received 12-MAR-21, within holding, analyzed 12-MAR-21, out of holding 12-MAR-21
537550003 (B40486)	Nitrite-N	Received 12-MAR-21, within holding, analyzed 12-MAR-21, out of holding 12-MAR-21

Samples (See Below) were initially analyzed within holding; however, the holding times had expired prior to reanalysis of diluted samples. The data is qualified.

Sample	Analyte	Value
1204772560 (Non SDG 537544004DUP)	Nitrate-N	Received 12-MAR-21, within holding, analyzed 13-MAR-21, out of holding 12-MAR-21
1204772561 (Non SDG 537544004PS)	Nitrate-N	Received 12-MAR-21, within holding, analyzed 13-MAR-21, out of holding 12-MAR-21
537550001 (B403R8)	Nitrate-N	Received 12-MAR-21, within holding, analyzed 13-MAR-21, out of holding 12-MAR-21
537550002 (B403V0)	Nitrate-N	Received 12-MAR-21, within holding, analyzed 13-MAR-21, out of holding 12-MAR-21
537550003 (B40486)	Nitrate-N	Received 12-MAR-21, within holding, analyzed 13-MAR-21, out of holding 12-MAR-21

Sample Dilutions

The following samples 1204772560 (Non SDG 537544004DUP), 1204772561 (Non SDG 537544004PS), 1204772868 (Non SDG 537565001DUP), 1204772869 (Non SDG 537565001PS), 537550001 (B403R8), 537550002 (B403V0) and 537550003 (B40486) were diluted because target analyte concentrations exceeded the

calibration range.

Analyte	537550		
	001	002	003
Chloride	2X	5X	20X
Nitrate-N	2X	5X	20X
Sulfate	2X	5X	20X

Miscellaneous Information

Manual Integrations

Sample 537550003 (B40486) was manually integrated to correctly position the baseline as set in the calibration standards.

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

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GEL537550

Central Plateau Cleanup Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST 537550			C.O.C.# I21-018-058
Page 1 of 1					
Collector: Mike Esparza CPCC		Contact/Requester: Karen Waters-Husted		Telephone No.: 509-376-4650	
SAF No.: I21-018		Sampling Origin: Hanford Site		Purchase Order/Charge Code: 900152	
Project Title: CERC, March 2021		Logbook No.: HNF-N-506 - 122		Ice Chest No.: GWS-188	
Shipped To (Lab): GEL Laboratories, LLC		Method of Shipment Commercial Carrier		Bill of Lading/Air Bill No.: 77312580380 4	
Protocol: CERCLA		Priority: 30 Days		Offsite Property No.: NA SEC 21151	
POSSIBLE SAMPLE HAZARDS/REMARK ** ** 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 N/A		

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B403R8	N		MAR 10 2021	0949	1x125-mL G/P	9056_ANIONS_IC: COMMON	48 Hours	Cool <=6C

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Relinquished By			Received By			Matrix *
Print First and Last Name	Signature	Date/Time	Print First and Last Name	Signature	Date/Time	
Mike Esparza CPCC		MAR 10 2021 1006	Kathy Turner CPCC		MAR 10 2021 1006	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
Kathy Turner CPCC		MAR 10 2021 1400	FEDEX			
		FED EX	Stacy Boone GEL Laboratories		MAR 12 2021 1000	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:
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GEL537550

April 19, 2021

Rev. 0

Central Plateau Cleanup Company		17/185 CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST 537550			C.O.C.# I21-018-063			
		Page 1 of 1						
Collector: Mike Esparza CPCC		Contact/Requester: Karen Waters-Husted	Telephone No.: 509-376-4650					
SAF No.: I21-018	Sampling Origin: Hanford Site		Purchase Order/Charge Code: 900152					
Project Title: CERC, March 2021	Logbook No.: HNF-N-506 -122		Ice Chest No.: 6WS-188					
Shipped To (Lab): GEL Laboratories, LLC	Method of Shipment Commercial Carrier		Bill of Lading/Air Bill No.: 7731 25803804					
Protocol: CERCLA	Priority: 30 Days		Offsite Property No.: NA SEC 21,121					
POSSIBLE SAMPLE HAZARDS/REMARK ** ** 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 N/A					
Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B403V0	N	W	MAR 10 2021	1254	1x125-mL G/P	9056_ANIONS_IC: COMMON	48 Hours	Cool <=6C

Relinquished By			Received By			Matrix *	
Print First and Last Name	Signature	Date/Time	Print First and Last Name	Signature	Date/Time		
Mike Esparza CPCC		MAR 10 2021	Janelle Zunke CPCC		MAR 10 2021 1311	S = Soil	DS = Drum Solids
Janelle Zunke CPCC		MAR 10 2021 1400	Stacy Boone GEL Laboratories		MAR 12 2021 1000	SE = Sediment	DL = Drum Liquids
		FED EX				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:
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Central Plateau Cleanup Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				C.O.C.# I21-018-076		
		537550				Page 1 of 1		
Collector: Mike Esparza CPC			Contact/Requester: Karen Waters-Husted			Telephone No.: 509-376-4650		
SAF No.: I21-018			Sampling Origin: Hanford Site			Purchase Order/Charge Code: 900152		
Project Title: CERC, March 2021			Logbook No.: HNF-N-506 -122			Ice Chest No.: GWS-188		
Shipped To (Lab): GEL Laboratories, LLC			Method of Shipment Commercial Carrier			Bill of Lading/Air Bill No.: 973(2580)3804		
Protocol: CERCLA			Priority: 30 Days			Offsite Property No.: NA SCC 2/1/21		
POSSIBLE SAMPLE HAZARDS/REMARK ** ** 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 N/A			
Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B40486	N		MAR 10 2021	0813	1x125-mL G/P	9056_ANIONS_IC: COMMON	48 Hours	Cool <=6C

GEL537550

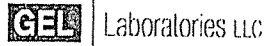
April 19, 2021

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Relinquished By			Received By			Matrix *	
Print First and Last Name	Signature	Date/Time	Print First and Last Name	Signature	Date/Time	S = Soil	DS = Drum Solids
Mike Esparza CPC		MAR 10 2021 1000	Kathy Turner CPC		MAR 10 2021 1000	SE = Sediment	DL = Drum Liquids
Kathy Turner CPC		MAR 10 2021 1400	FEDEX			SO = Solid	T = Tissue
			Stacy Boone GEL Laboratories		MAR 12 2021 1000	SL = Sludge	WI = Wipe
						W = Water	L = Liquid
						O = Oil	V = Vegetation
						A = Air	X = Other

Rev. 0

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

Client: C.PRC		SDG/AR/COC/Work Order: 537550
Received By: STACY BOONE		Date Received: MARCH 12, 2021
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other 7731 2382 5243 i c 7731 2580 3804 i c 7731 2587 4299 i c
Suspected Hazard Information	Yes <input type="checkbox"/> No <input type="checkbox"/>	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?	<input checked="" type="checkbox"/>	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?	<input checked="" type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?	<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <input checked="" type="checkbox"/> CPM / mR/Hr Classified as: <u>Rad 1</u> Rad 2 Rad 3
D) Did the client designate samples are hazardous?	<input checked="" type="checkbox"/>	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?	<input checked="" type="checkbox"/>	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other: _____
Sample Receipt Criteria	Yes <input type="checkbox"/> NA <input type="checkbox"/> No <input type="checkbox"/>	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TEMP: _____
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	Temperature Device Serial #: <u>TR1-20</u> Secondary Temperature Device Serial # (If Applicable): _____
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#: _____
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)
		Do liquid VOA vials contain acid preservation? Yes <input checked="" type="checkbox"/> No ___ NA ___ (If unknown, select No)
		Are liquid VOA vials free of headspace? Yes <input checked="" type="checkbox"/> No ___ NA ___ Sample ID's and containers affected: _____
8 Samples received within holding time?	<input checked="" type="checkbox"/>	ID's and tests affected: _____
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	ID's and containers affected: _____
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed):		

PM (or PMA) review: Initials **NRG** Date **3/15/21** Page **1** of **1**

Data Review Qualifier Definitions

Project Specific Qualifier Definitions for GEL Client Code: CPRC

Qualifier	Qualifier Definition	Department	Fraction
U	Analyzed for but not detected above limiting criteria. Includes MDL, MDA, PQL, zero, counting error, and total analytical error.		
J	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). Value is estimated	Organics	
P	Aroclor target analyte with greater than 25% difference between column analyses.	Organics	
C	Analyte has been confirmed by GC/MS analysis	Organics	Pesticide
B	The analyte was detected in both the associated QC blank and in the sample.	Organics	
E	Concentration exceeds the calibration range of the instrument	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	Spike Sample recovery is outside control limits.		
*	Duplicate analysis not within control limits	Inorganics	
>	Result greater than quantifiable range or greater than upper limit of the analysis range	General Chemistry	
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).	Inorganics	Metals
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.	Inorganics	Metals
o	Analyte failed to recover within LCS limits (Organics only)	Organics	
S	Reported value determined by the Method of Standard Additions (MSA)	Inorganics	
T	Spike and/or spike duplicate sample recovery is outside control limits.	Organics	
W	Post-digestion spike recovery for GFAA out of control limit. Sample absorbency < 50% of spike absorbency.	Inorganics	
B	The analyte was detected in the associated method blank \geq MDC or $>$ 5% sample activity.	Radiological	
Y	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier		
+	Correlation coefficient for Method of Standard Additions (MSA) is < 0.995	Inorganics	
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).	General Chemistry	
C	Target analyte was detected in the sample and the associated blank. The associated blank concentration is \geq EQL or is $>$ 5% of the measured concentration and/or decision level for associated samples.	Inorganics	Metals
C	Target analyte was detected in the sample and the associated blank. The associated blank concentration is \geq EQL or is $>$ 5% of the measured concentration and/or decision level for associated samples.	General Chemistry	
<	Sample is below the EPA guidance level for Reactive Releasable Cyanide and/or Reactive Releasable Sulfide	General Chemistry	
UX	Gamma Spectroscopy--Uncertain identification	Radiological	
o	Analyte failed to recover within LCS limits	Radiological	Rad

Laboratory Certifications

List of current GEL Certifications as of 23 March 2021

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122021-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
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	T104704235-21-19
Utah NELAP	SC000122020-34
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

General Chem Analysis

Case Narrative

**General Chemistry
Technical Case Narrative
Central Plateau Cleanup Company
SDG #: GEL537550
Work Order #: 537550**

Product: Ion Chromatography**Analytical Method:** 9056_ANIONS_IC**Analytical Procedure:** GL-GC-E-086 REV# 29**Analytical Batch:** 2102415

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
537550001	B403R8
537550002	B403V0
537550003	B40486
1204772558	Method Blank (MB)
1204772559	Laboratory Control Sample (LCS)
1204772560	537544004(NonSDG) Sample Duplicate (DUP)
1204772561	537544004(NonSDG) Post Spike (PS)
1204772868	537565001(NonSDG) Sample Duplicate (DUP)
1204772869	537565001(NonSDG) Post Spike (PS)

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.

Technical Information**Holding Times**

Samples (See Below) were received with insufficient time to prep and/or analyze within the recommended method-specified holding time. The analysis was performed as soon as possible by the analyst. The data is qualified.

Sample	Analyte	Value
1204772560 (Non SDG 537544004DUP)	Nitrite-N	Received 12-MAR-21, within holding, analyzed 12-MAR-21, out of holding 12-MAR-21
1204772561 (Non SDG 537544004PS)	Nitrite-N	Received 12-MAR-21, within holding, analyzed 12-MAR-21, out of holding 12-MAR-21
537550003 (B40486)	Nitrite-N	Received 12-MAR-21, within holding, analyzed 12-MAR-21, out of holding 12-MAR-21

Samples (See Below) were initially analyzed within holding; however, the holding times had expired prior to reanalysis of diluted samples. The data is qualified.

Sample	Analyte	Value
1204772560 (Non SDG 537544004DUP)	Nitrate-N	Received 12-MAR-21, within holding, analyzed 13-MAR-21, out of holding 12-MAR-21
1204772561 (Non SDG 537544004PS)	Nitrate-N	Received 12-MAR-21, within holding, analyzed 13-MAR-21, out of holding 12-MAR-21
537550001 (B403R8)	Nitrate-N	Received 12-MAR-21, within holding, analyzed 13-MAR-21, out of holding 12-MAR-21
537550002 (B403V0)	Nitrate-N	Received 12-MAR-21, within holding, analyzed 13-MAR-21, out of holding 12-MAR-21
537550003 (B40486)	Nitrate-N	Received 12-MAR-21, within holding, analyzed 13-MAR-21, out of holding 12-MAR-21

Sample Dilutions

The following samples 1204772560 (Non SDG 537544004DUP), 1204772561 (Non SDG 537544004PS), 1204772868 (Non SDG 537565001DUP), 1204772869 (Non SDG 537565001PS), 537550001 (B403R8), 537550002 (B403V0) and 537550003 (B40486) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	537550		
	001	002	003
Chloride	2X	5X	20X
Nitrate-N	2X	5X	20X
Sulfate	2X	5X	20X

Miscellaneous Information

Manual Integrations

Sample 537550003 (B40486) was manually integrated to correctly position the baseline as set in the calibration standards.

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**

CPRC002 Central Plateau Cleanup Company (74393)

Client SDG: GEL537550 GEL Work Order: 537550

The Qualifiers in this report are defined as follows:

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.

U Analyzed for but not detected above limiting criteria. Includes MDL, MDA, PQL, zero, counting error, and total analytical error.

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

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: 23 MAR 2021****Title: Data Validator**

Sample Data Summary

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 23, 2021

Company : Central Plateau Cleanup Company
 Address : MSIN R3-50
 PO Box 1600
 Richland, Washington 99352
 Contact: Mr. Scot Fitzgerald
 Project: SAF I21-018

Client Sample ID: B403R8 Project: CPRC0I21018
 Sample ID: 537550001 Client ID: CPRC002
 Matrix: WATER
 Collect Date: 10-MAR-21 09:49
 Receive Date: 12-MAR-21
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
9056_ANIONS_IC: COMMON "As Received"												
Fluoride	B	320	33.0	500	ug/L		1	JLD1	03/12/21	1236	2102415	1
Nitrite-N	U	33.0	33.0	100	ug/L		1					
Chloride	D	11200	134	400	ug/L		2	JLD1	03/13/21	0133	2102415	2
Nitrate-N	DX	4890	66.0	200	ug/L		2					
Sulfate	D	25000	266	800	ug/L		2					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	9056_ANIONS_IC	
2	9056_ANIONS_IC	

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 23, 2021

Company : Central Plateau Cleanup Company
 Address : MSIN R3-50
 PO Box 1600
 Richland, Washington 99352
 Contact: Mr. Scot Fitzgerald
 Project: SAF I21-018

Client Sample ID: B403V0 Project: CPRC0I21018
 Sample ID: 537550002 Client ID: CPRC002
 Matrix: WATER
 Collect Date: 10-MAR-21 12:54
 Receive Date: 12-MAR-21
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
9056_ANIONS_IC: COMMON "As Received"												
Fluoride	B	293	33.0	500	ug/L		1	JLD1	03/12/21	1306	2102415	1
Nitrite-N	U	33.0	33.0	100	ug/L		1					
Chloride	D	36100	335	1000	ug/L		5	JLD1	03/13/21	0202	2102415	2
Nitrate-N	DX	6580	165	500	ug/L		5					
Sulfate	D	71900	665	2000	ug/L		5					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	9056_ANIONS_IC	
2	9056_ANIONS_IC	

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 23, 2021

Company : Central Plateau Cleanup Company
 Address : MSIN R3-50
 PO Box 1600
 Richland, Washington 99352
 Contact: Mr. Scot Fitzgerald
 Project: SAF I21-018

Client Sample ID: B40486 Project: CPRC0I21018
 Sample ID: 537550003 Client ID: CPRC002
 Matrix: WATER
 Collect Date: 10-MAR-21 08:13
 Receive Date: 12-MAR-21
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
9056_ANIONS_IC: COMMON "As Received"												
Fluoride	B	208	33.0	500	ug/L		1	JLD1	03/12/21	1336	2102415	1
Nitrite-N	UX	33.0	33.0	100	ug/L		1					
Chloride	D	26200	1340	4000	ug/L		20	JLD1	03/13/21	0232	2102415	2
Nitrate-N	DX	71000	660	2000	ug/L		20					
Sulfate	D	74400	2660	8000	ug/L		20					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	9056_ANIONS_IC	
2	9056_ANIONS_IC	

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: March 23, 2021

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Central Plateau Cleanup Company

MSIN R3-50

PO Box 1600

Richland, Washington

Contact: Mr. Scot Fitzgerald

Workorder: 537550

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2102415										
QC1204772560	537544004	DUP									
Chloride	D	24200	D	23700	ug/L	1.98		(0%-20%)	JLD1	03/13/21	00:33
Fluoride	B	311	B	313	ug/L	0.673	^	(+/-500)		03/12/21	15:35
Nitrate-N	DX	6780	DX	6850	ug/L	0.991		(0%-20%)		03/13/21	00:33
Nitrite-N	U	33.0	UX	33.0	ug/L	N/A				03/12/21	15:35
Sulfate	D	37400	D	37300	ug/L	0.389		(0%-20%)		03/13/21	00:33
QC1204772868	537565001	DUP									
Chloride	D	928000	D	928000	ug/L	0.0765		(0%-20%)		03/13/21	06:31
Fluoride	B	480	B	480	ug/L	0.125	^	(+/-500)		03/12/21	20:34
Nitrate-N	D	13300	D	13200	ug/L	0.132		(0%-20%)		03/13/21	04:02
Nitrite-N	U	33.0	U	33.0	ug/L	N/A				03/12/21	20:34
Sulfate	D	27500	D	27500	ug/L	0.0892		(0%-20%)		03/13/21	04:02
QC1204772559	LCS										
Chloride		5000		4830	ug/L			96.5	(80%-120%)	03/12/21	22:03
Fluoride		2500		2440	ug/L			97.5	(80%-120%)		
Nitrate-N		2500		2460	ug/L			98.6	(80%-120%)		

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QC Summary

Workorder: 537550

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2102415										
Nitrite-N	2500			2490	ug/L		99.6	(80%-120%)	JLD1	03/12/21	22:03
Sulfate	10000			9810	ug/L		98.1	(80%-120%)			
QC1204772558	MB										
Chloride			U	67.0	ug/L					03/12/21	21:33
Fluoride			U	33.0	ug/L						
Nitrate-N			U	33.0	ug/L						
Nitrite-N			U	33.0	ug/L						
Sulfate			U	133	ug/L						
QC1204772561	537544004 PS										
Chloride	20.0	D	4.84	D	23.2	mg/L	91.8	(75%-125%)		03/13/21	01:03
Fluoride	2.50	B	0.311		2.71	mg/L	96	(75%-125%)		03/12/21	16:05
Nitrate-N	10.0	DX	1.36	DX	10.3	mg/L	89.3	(75%-125%)		03/13/21	01:03
Nitrite-N	2.50	U	0.000	X	2.49	mg/L	99.5	(75%-125%)		03/12/21	16:05
Sulfate	40.0	D	7.49	D	44.7	mg/L	93.1	(75%-125%)		03/13/21	01:03
QC1204772869	537565001 PS										
Chloride	10.0	D	9.28	D	21.6	mg/L	123	(75%-125%)		03/13/21	07:01
Fluoride	2.50	B	0.480		2.89	mg/L	96.2	(75%-125%)		03/12/21	21:04
Nitrate-N	5.00	D	2.65	D	8.38	mg/L	115	(75%-125%)		03/13/21	05:32

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QC Summary

Workorder: 537550

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2102415										
Nitrite-N	2.50	U	0.000		2.88	mg/L	115	(75%-125%)	JLD1	03/12/21	21:04
Sulfate	20.0	D	5.50	D	27.2	mg/L	109	(75%-125%)		03/13/21	05:32

Notes:

The Qualifiers in this report are defined as follows:

- < Sample is below the EPA guidance level for Reactive Releasable Cyanide and/or Reactive Releasable Sulfide
- > Result greater than quantifiable range or greater than upper limit of the analysis range
- 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).
- C Target analyte was detected in the sample and the associated blank. The associated blank concentration is \geq EQL or is $>$ 5% of the measured concentration and/or decision level for associated samples.
- D Results are reported from a diluted aliquot of sample.
- E Reported value is estimated due to interferences. See comment in narrative.
- N Spike Sample recovery is outside control limits.
- U Analyzed for but not detected above limiting criteria. Includes MDL, MDA, PQL, zero, counting error, and total analytical error.
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Z Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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.