



Ft. Collins, Colorado

LIMS Version: 7.534

Page 1 of 1

Sunday, March 28, 2021

Laine Sumner
Central Plateau Cleanup Company, LLC
825 Jadwin Avenue
Richland, WA 99352

Re: ALS Workorder: 2103276
Project Name: 100N BIOVENTING CONFIRMATION SAMPLING - SOILS
Project Number: F21-001

Dear Ms. Sumner:

Three soil samples were received from Central Plateau Cleanup Company, LLC, on 3/12/2021. The samples were scheduled for the following analysis:

Oil and Grease

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Katie M. O'Brien
Project Manager

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 deviations, from either the analyses requested or the case narrative requested. Release of the data contained in this hard copy data package 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.

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 2103276

Client Name: Central Plateau Cleanup Company, LLC

Client Project Name: 100N BIOVENTING CONFIRMATION SAMPLING - SOILS

Client Project Number: F21-001

Client PO Number: BOA 74395

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
B3YVL1	2103276-1		SOIL	10-Mar-21	7:48
B3YVL3	2103276-2		SOIL	10-Mar-21	10:50
B3YVL5	2103276-3		SOIL	10-Mar-21	13:25

Central Plateau Cleanup Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST 2103276			F21-001-036	PAGE 1 OF 1
COLLECTOR Tim Callaway CPCC	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC		REQUIRED TAT 15 Days	
SAMPLING LOCATION D0070, I-12	PROJECT DESIGNATION 100N BIOVENTING CONFIRMATION SAMPLING - SOILS		SAF NO. F21-001		ORIGINAL	
ICE CHEST NO. KT 6ws-200 189	FIELD LOGBOOK NO. HNF-N-645 10-27	ACTUAL SAMPLE DEPTH 7 02.5-65.0	PURCHASE ORDER/CHARGE CODE 900458		METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO ALS Environmental Ft. Collins		OFFSITE PROPERTY NO. N/A	BILL OF LADING/AIR BILL NO. 7731 3737 4440			

MATRIX* A=Air DL=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 be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	PRESERVATION	Cool <=6C		
		HOLDING TIME	28 Days		
		TYPE OF CONTAINER	G		
		NO. OF CONTAINER(S)	1		
		VOLUME	125mL		
SPECIAL HANDLING AND/OR STORAGE N/A		SAMPLE ANALYSIS	1664A_OILGRE ASE: COMMON (Oil and grease);		
SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B3YVL1	1	N/A	SOIL	MAR 10 2021	0748 ✓

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
Tim Callaway CPCC <i>[Signature]</i>	SSTI- 1 MAR 10 2021 <i>[Signature]</i>	TRVL-21-026
SSU-1 MAR 11 2021 <i>[Signature]</i>	Chris Felton CPCC MAR 11 2021 <i>[Signature]</i>	
Chris Felton CPCC MAR 11 2021 <i>[Signature]</i>	FEDEX Rose Argent 03-12-21 <i>[Signature]</i>	
3 of 14		

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

ALS2103276

March 28, 2021
ALS2103276

Rev. 0

Central Plateau Cleanup Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST 2103276			F21-001-038	PAGE 1 OF 1
COLLECTOR Tim Callaway CPCC		COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	REQUIRED TAT 15 Days	
SAMPLING LOCATION D0070, I-13		PROJECT DESIGNATION 100N BIOVENTING CONFIRMATION SAMPLING - SOILS		SAF NO. F21-001		
ICE CHEST NO. KT311-21 BWS-200 189		FIELD LOGBOOK NO. HNF-N-645 10-27	ACTUAL SAMPLE DEPTH FT 65.2-67.7	PURCHASE ORDER/CHARGE CODE 900458	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO ALS Environmental Ft. Collins		OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. 7731 3737 4440		

MATRIX* A=Air DL=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 be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	PRESERVATION		Cool <=6C	
		HOLDING TIME		28 Days	
		TYPE OF CONTAINER		G	
		NO. OF CONTAINER(S)		1	
		VOLUME		125mL	
		SPECIAL HANDLING AND/OR STORAGE		N/A	
SAMPLE ANALYSIS		1664A_OILGREASE: COMMON (Oil and grease);			
SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B3YVL3	2	N/A	SOIL	MAR 10 2021	1050 ✓

CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME	SPECIAL INSTRUCTIONS
Tim Callaway CPCC	MAR 10 2021 1500	SSU- 1	MAR 10 2021 1500	TRVL-21-026
Chris Fulton CPCC	MAR 11 2021 0640	Chris Fulton CPCC	MAR 11 2021 0640	
Chris Fulton CPCC	MAR 11 2021 1400	FEDEX		
FEDEX		Rose Argent	03-12-21 0940	
4 of 14				

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME
--------------------------	-----------------	-------------	-----------

ALS2103276

March 28, 2021
ALS2103276

Rev. 0

Central Plateau Cleanup Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F21-001-040	PAGE 1 OF 1
COLLECTOR Tim Callaway CPCC		COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	REQUIRED TAT 15 Days	
SAMPLING LOCATION D0070, I-14		PROJECT DESIGNATION 100N BIOVENTING CONFIRMATION SAMPLING - SOILS		SAF NO. F21-001	ORIGINAL	
ICE CHEST NO. <i>KT 2112J</i> <i>Gas-200 189</i>		FIELD LOGBOOK NO. HNF-N-645 <i>10-27</i>	ACTUAL SAMPLE DEPTH <i>N</i> <i>67.3 - 69.8</i>	PURCHASE ORDER/CHARGE CODE 900458	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO ALS Environmental Ft. Collins		OFFSITE PROPERTY NO. <i>N/A</i>	BILL OF LADING/AIR BILL NO. <i>7731 3737 4440</i>			
MATRIX* A=Air DL=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 be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	PRESERVATION	Cool <=6C			
		HOLDING TIME	28 Days			
		TYPE OF CONTAINER	G			
		NO. OF CONTAINER(S)	1			
		VOLUME	125mL			
	SPECIAL HANDLING AND/OR STORAGE N/A	SAMPLE ANALYSIS	1664A_OILGREASE: COMMON (Oil and grease);			
SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B3YVL5	3	N/A	SOIL	MAR 10 2021	1325	✓

ALS2103276

March 28, 2021
ALS2103276

CHAIN OF POSSESSION	RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES	RECEIVED BY/STORED IN	DATE/TIME	SPECIAL INSTRUCTIONS
	Tim Callaway CPCC	MAR 10 2021 1500	SSU- 1	Chris Fulton CPCC	MAR 10 2021 1500	TRVL-21-026
	Chris Fulton CPCC	MAR 11 2021 0640	SSU-1	Chris Fulton CPCC	MAR 11 2021 0640	
	Chris Fulton CPCC	MAR 11 2021 1400	FEDEX	Rose Argent	03-12-21 0940	
5 of 14						

5 of 14

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Rev. 0



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client Name/ID: CPCC Workorder No: 2103276
Project Manager: KMO Initials: RGA Date: 03/12/2021

1. Are airbills / shipping documents present and/or removable?	<input type="checkbox"/> Drop Off	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
2. Are custody seals on shipping containers intact?	<input type="checkbox"/> NONE	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO*
3. Are custody seals on sample containers intact?	<input type="checkbox"/> NONE	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO*
4. Is there a COC (chain-of-custody) present?		<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO*
5. Is the COC in agreement with samples received? (IDs, dates, times, # of samples, # of containers, matrix, requested analyses, etc.)		<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO*
6. Are short-hold samples present?		<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
7. Are all samples within holding times for the requested analyses?		<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO*
8. Were all sample containers received intact? (not broken or leaking)		<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO*
9. Is there sufficient sample for the requested analyses?		<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO*
10. Are samples in proper containers for requested analyses? (form 250, Sample Handling Guidelines)		<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO*
11. Are all aqueous samples preserved correctly, if required?	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> YES	<input type="checkbox"/> NO*
12. Were unpreserved samples pH checked, if required?	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> YES	<input type="checkbox"/> NO
13. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, radon) free of bubbles > 6 mm in diameter?	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> YES	<input type="checkbox"/> NO
14. Were the samples shipped on ice?		<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
15. Were cooler temperatures measured at 0.1 - 6.0°C?	IR gun used: #3 #5	<input type="checkbox"/> Rad Only	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

Cooler #:	1
Temperature (°C):	0.3
# of custody seals on cooler:	2
External uR/hr reading:	11
Background uR/hr reading	10
Were external mR/hr readings ≤ two times background and within DOT acceptance criteria? (If no, see Form 008)	<input type="checkbox"/> N/A <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

* Please provide details below for 'NO' responses in gray boxes above - for 2 thru 5 & 7 thru 12, notify PM & continue w/ login.

All client bottle ID's vs ALS lab ID's double-checked by: RGA

If applicable, was the client contacted? YES NO Contact Name: Date:

Project Manager Signature / Date:  3/12/21

RICHLAND, WA 99354
UNITED STATES US

BILL THIRD PARTY

TO **JULIE ELLINGSON**
ALS GLOBAL - FORT COLLINS
225 COMMERCE DRIVE

11-2
0.3

56D.GIAC39/FE4A

FORT COLLINS CO 80524

(970) 490-1511
INV:
PO:

REF: CACN900153/COOLER#GWS-189

DEPT:

FedEx Ship Manager - Print Your Label(s)



FRI - 12 MAR 10:30A

TRK#
0201 **7731 3737 4440**

PRIORITY OVERNIGHT

DSR

XH FTCA

80524

CO-US **DEN**



3/11/2021

ALS2103276

March 28, 2021
ALS2103276

Rev. 0



Oil and Grease Case Narrative

Central Plateau Cleanup Company, LLC 100N BIOVENTING CONFIRMATION SAMPLING - SOILS – F21-001

Work Order Number: 2103276

1. The samples were prepared and analyzed according to SW-846, 3rd Edition procedures based on Method SW-9071 and utilizing the current revision of SOP 640.
2. The samples were prepared and analyzed within the established hold times.
3. The method blank associated with this project was below the reporting limit for oil and grease.
4. All laboratory control sample and laboratory control sample duplicate recoveries and RPDs were within the acceptance criteria.
5. Sample 2103200-4 was designated as the quality control sample for this analysis. Results for the shared quality control samples from the batch are included at the client's request.

Similarity of matrix and therefore relevance of the QC results should not be automatically inferred for any sample other than the native sample selected for QC.

All acceptance criteria for precision and accuracy were met.



The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Megan Johnstone
Megan Johnstone
Organics Primary Data Reviewer

3/24/21
Date

[Signature]
Organics Final Data Reviewer

3/28/21
Date

Oil & Grease, Gravimetric

Method SW9071B

Method Blank

Lab Name: ALS -- Fort Collins

Work Order Number: 2103276

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: 100N BIOVENTING CONFIRMATION SAMPLING - SOILS F21-

Lab ID: EX210317-3MB

Sample Matrix: SOIL

% Moisture: N/A

Date Collected: N/A

Date Extracted: 17-Mar-21

Date Analyzed: 24-Mar-21

Prep Method: METHOD

Prep Batch: EX210317-3

QCBatchID: EX210317-3-1

Run ID: EX210324-1A1

Cleanup: NONE

Basis: N/A

File Name:

Sample Aliquot: 50 g

Final Volume: 1 sample

Result Units: UG/KG

Clean DF: 1

CASNO	Target Analyte	DF	Result	Result Qualifier	Reporting Limit	MDL
10-30-0	OIL AND GREASE	1	100000	U	100000	

Data Package ID: EX2103276-1

OIL AND GREASE

Method SW9071 Revision B

Sample Results

Lab Name: ALS -- Fort Collins
Client Name: Central Plateau Cleanup Company, LLC
Client Project ID: 100N BIOVENTING CONFIRMATION SAMPLING - SOILS F21-001
Work Order Number: 2103276 **Final Volume:** 1 sample
Reporting Basis: Dry Weight **Matrix:** SOIL
Prep Method: METHOD **Result Units:** UG/KG
Analyst: Chris P. Casillas

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	RptLimit/LOQ/LOD	Flag	Sample Aliquot
B3YVL1	2103276-1	03/10/2021	03/17/2021	03/24/2021	0.9	1	170000	100000		50.17 g
B3YVL3	2103276-2	03/10/2021	03/17/2021	03/24/2021	3.2	1	13000000	100000		50.1 g
B3YVL5	2103276-3	03/10/2021	03/17/2021	03/24/2021	4.4	1	1400000	100000		50.28 g

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: EX2103276-1

ALS2103276

Oil & Grease, Gravimetric

Method SW9071B

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS -- Fort Collins

Work Order Number: 2103276

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: 100N BIOVENTING CONFIRMATION SAMPLING - SOILS F21-

Lab ID: EX210317-3LCS

Sample Matrix: SOIL

Prep Batch: EX210317-3

Sample Aliquot: 50 g

% Moisture: N/A

QCBatchID: EX210317-3-1

Final Volume: 1 sample

Date Collected: N/A

Run ID: EX210324-1A1

Result Units: UG/KG

Date Extracted: 03/17/2021

Cleanup: NONE

Clean DF: 1

Date Analyzed: 03/24/2021

Basis: N/A

Prep Method: METHOD

File Name:

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
10-30-0	OIL AND GREASE	2000000	2200000	100000		109	70 - 130%

Lab ID: EX210317-3LCSD

Sample Matrix: SOIL

Prep Batch: EX210317-3

Sample Aliquot: 50 g

% Moisture: N/A

QCBatchID: EX210317-3-1

Final Volume: 1 sample

Date Collected: N/A

Run ID: EX210324-1A1

Result Units: UG/KG

Date Extracted: 03/17/2021

Cleanup: NONE

Clean DF: 1

Date Analyzed: 03/24/2021

Basis: N/A

Prep Method: METHOD

File Name:

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
10-30-0	OIL AND GREASE	2000000	2200000	100000		110	35	1

Data Package ID: EX2103276-1

Oil & Grease, Gravimetric

Method SW9071

Duplicate Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103276

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: 100N BIOVENTING CONFIRMATION SAMPLING - SOILS F21-

Field ID:	SHARED QC
Lab ID:	2103200-4D

Sample Matrix: SOIL

% Moisture: 0.1

Date Collected: 03/08/2021

Date Extracted: 03/17/2021

Date Analyzed: 03/24/2021

Prep Batch: EX210317-3

QC Batch ID: EX210317-3-1

Run ID: EX210324-1A1

Cleanup: NONE

Basis: Dry Weight

File Name:

Sample Aliquot: 50.89 g

Final Volume: 1 sample

Result Units: UG/KG

Clean DF: 1

CASNO	Target Analyte	Sample Result	Samp Qual	Duplicate Result	Dup Qual	Reporting Limit	Dilution Factor	RPD	RPD Limit
10-30-0	OIL AND GREASE	100000	U	98400	U	98400	1		35

Data Package ID: EX2103276-1

Prep Batch ID: EX210317-3

Start Date: 03/17/21	End Date: 03/18/21	Concentration Method: CRVS	Batch Created By: cpc
Start Time: 15:00	End Time: 9:00	Extract Method: METHOD	Date Created: 03/17/21
Prep Analyst: Chris P. Casillas		Initial Volume Units: g	Time Created: 14:21
Comments:		Final Volume Units: sample	Validated By: cpc
<div style="border: 1px solid black; height: 30px; width: 100%;"></div>			Date Validated: 03/17/21
			Time Validated: 15:12

QC Batch ID: EX210317-3-1

Lab ID	QC Type	Field ID	Matrix	Date Collected	Initial Wt/Vol	Final Wt/Vol	Cleanup Method	Cleanup DF	Order Number
EX210317-3	MB	XXXXXX	SOIL	XXXXXX	50	1	NONE	1	2103235
EX210317-3	LCS	XXXXXX	SOIL	XXXXXX	50	1	NONE	1	2103235
EX210317-3	LCSD	XXXXXX	SOIL	XXXXXX	50	1	NONE	1	2103235
2103200-4	DUP	XXXXXX	SOIL	XXXXXX	50.89	1	NONE	1	2103200
2103200-1	SMP	XXXXXX	SOIL	XXXXXX	50.29	1	NONE	1	2103200
2103200-2	SMP	XXXXXX	SOIL	XXXXXX	50.04	1	NONE	1	2103200
2103200-3	SMP	XXXXXX	SOIL	XXXXXX	50.37	1	NONE	1	2103200
2103200-4	SMP	XXXXXX	SOIL	XXXXXX	50.28	1	NONE	1	2103200
2103235-1	SMP	XXXXXX	SOIL	XXXXXX	50.11	1	NONE	1	2103235
2103235-2	SMP	XXXXXX	SOIL	XXXXXX	50.76	1	NONE	1	2103235
2103235-3	SMP	XXXXXX	SOIL	XXXXXX	50.03	1	NONE	1	2103235
2103276-1	SMP	B3YVL1	SOIL	3/10/2021	50.17	1	NONE	1	2103276
2103276-2	SMP	B3YVL3	SOIL	3/10/2021	50.1	1	NONE	1	2103276
2103276-3	SMP	B3YVL5	SOIL	3/10/2021	50.28	1	NONE	1	2103276

In generating this benchsheet, prep analyst states that all aspects of sample preparation as set forth in the appropriate SOP's (including Kuderna-Danish temperatures, proper flow settings on the N-evap, and final volumes) were properly adhered to (unless otherwise noted herein).

QC Types

CAR	Carrier reference sample	DLS	Detection Limit Standard
DUP	Laboratory Duplicate	LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicat	LODV	Limit of Detection Verification
LOQV	Limit of Quantitation Verification	MB	Method Blank
MS	Laboratory Matrix Spike	MSD	Laboratory Matrix Spike Duplicate
REP	Sample replicate	RVS	Reporting Level Verification Standar
SMP	Field Sample	SYS	Sample Yield Spike