



Wednesday, February 24, 2021

Karen Waters-Husted
Central Plateau Cleanup Company, LLC
825 Jadwin Avenue
Richland, WA 99352

Re: ALS Workorder: 2102158
Project Name: RCRA, February 2021
Project Number: W21-002

Dear Ms. Waters-Husted:

Five water samples were received from Central Plateau Cleanup Company, LLC, on 2/10/2021. The samples were scheduled for the following analyses:

Inorganics

PCBs

Pesticides

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: 2102158

Client Name: Central Plateau Cleanup Company, LLC

Client Project Name: RCRA, February 2021

Client Project Number: W21-002

Client PO Number: BOA 74395

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
B3YWT6	2102158-1		WATER	09-Feb-21	8:43
B3YWT7	2102158-2		WATER	09-Feb-21	8:43
B3YWV1	2102158-3		WATER	09-Feb-21	8:43
B3YWV2	2102158-4		WATER	09-Feb-21	8:43
B3YX12	2102158-5		WATER	09-Feb-21	10:45

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Sample Number(s) Cross-Reference Table

Please contact your project manager with any questions you may have about this report.

OrderNum: 2102158

Client Name: Central Plateau Cleanup Company, LL

Client Project Name: RCRA, February 2021

Client Project Number: W21-002

Client PO Number: BOA 74395

Report Due Date: 3/10/2021

Project Manager

Katie M. OBrien

email: kathleen.obrien@alsglobal.com

Phone: 970-490-1511

Client Sample Number	Lab Sample Number	Test Group	COC Number	Matrix	Date Collected	Time Collected
B3YWT6	2102158-1	345		WATER	09-Feb-21	8:43
B3YWT7	2102158-2	345		WATER	09-Feb-21	8:43
B3YWV1	2102158-3	97		WATER	09-Feb-21	8:43
B3YWV2	2102158-4	97		WATER	09-Feb-21	8:43
B3YX12	2102158-5	97		WATER	09-Feb-21	10:45

****Designated QC**

Analytical Methods by Test Group

Test Group: 97

EPA300.0 300.0_ANIONS_IC: COMMON

EPA300.0

Test Group: +02

SW8081 8081_PEST_GC: COMMON and CH 01

SW8082 8082_PCB_GC: COMMON

Collector: Juan Aguilar CPCC	Contact/Requester: Karen Waters-Husted	Telephone No.: 509-376-4650
SAF No.: W21-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 900152
Project Title: RCRA, February 2021	Logbook No.: HNF-N-506-120/29	Ice Chest No.: GWS-077
Shipped To (Lab): ALS Environmental Ft. Collins	Method of Shipment: Commercial Carrier	Bill of Lading/Air Bill No.: 7728 6607 2139
Protocol: RCRA	Priority: 30 Days	Offsite Property No.: N/A

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
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Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3YWT6	1	N	W FEB 09 2021	0843	4x1-L aG	8081_PEST_GC: COMMON; 8081_PEST_GC: CH 01	7/40 Days	Cool <=6C
B3YWT6	↓	N	W FEB 09 2021	0843	4x1-L aG	8082_PCB_GC: COMMON	None	Cool <=6C

Relinquished By			Received By			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
Print First and Last Name	Signature	Date/Time	Print First and Last Name	Signature	Date/Time	
Juan Aguilar CPCC		FEB 09 2021 1000	Lorin Kelly CPOC		FEB 09 2021 1000	
Lorin Kelly CPOC		FEB 09 2021 1400	Rose Ardent		02-10-21 1000	
	FEDEX					

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:
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Rev. 0

CENTRAL PLATEAU CLEANUP COMPANY		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				C.O.C.# W21-002-017		
						Page 1 of 1		
Collector: Juan Aguilar CPCC		Contact/Requester: Karen Waters-Husted		Telephone No.: 509-376-4650				
SAF No.: W21-002		Sampling Origin: Hanford Site		Purchase Order/Charge Code: 900152				
Project Title: RCRA, February 2021		Logbook No.: HNF-N-506 - 120/29		Ice Chest No.: GWS-058				
Shipped To (Lab): ALS Environmental Ft. Collins		Method of Shipment Commercial Carrier		Bill of Lading/Air Bill No.: TR28 6406923D				
Protocol: RCRA		Priority: 30 Days		Offsite Property No.: N/A				
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
B3YWT7 2	N	W	FEB 09 2021	0843	4x1-L aG	8081_PEST_GC: COMMON; 8081_PEST_GC: CH 01	7/40 Days	Cool <=6C
B3YWT7 ↓	N	W	FEB 09 2021	0843	4x1-L aG	8082_PCB_GC: COMMON	None	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	S = Soil	DS = Drum Solids
Juan Aguilar CPCC	<i>[Signature]</i>	FEB 09 2021 1000	Lorin Kelly CPCC	<i>[Signature]</i>	FEB 09 2021 1000	SE = Sediment	DL = Drum Liquids
Lorin Kelly CPCC	<i>[Signature]</i>	FEB 09 2021 1400	FEDEX			SO = Solid	T = Tissue
	FEDEX		Rose Argent	<i>[Signature]</i>	02-10-21 1000	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:	

Rev. 0

CENTRAL PLATEAU CLEANUP COMPANY Y	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST 2102158	C.O.C.# W21-002-178 Page 1 of 1
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Collector: Juan Aguilar CPC	Contact/Requester: Karen Waters-Husted	Telephone No.: 509-376-4650
SAF No.: W21-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 900152
Project Title: RCRA, February 2021	Logbook No.: HNF-N-506 - 120/29	Ice Chest No.: GWS-058
Shipped To (Lab): ALS Environmental Ft. Collins	Method of Shipment: Commercial Carrier	Bill of Lading/Air Bill No.: T12864069232
Protocol: RCRA	Priority: 30 Days	Offsite Property No.: N/A

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
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Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3YWV1	3	N	FEB 09 2021	0843	1x125-mL P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C

(6 of 46)

Relinquished By			Received By			Matrix *	
Print First and Last Name	Signature	Date/Time	Print First and Last Name	Signature	Date/Time		
Juan Aguilar CPC		FEB 09 2021 1000	Lorin Kelly CPC		FEB 09 2021 1000	S = Soil	DS = Drum Solids
Lorin Kelly CPC		FEB 09 2021 1400	FEDEX			SE = Sediment	DL = Drum Liquids
			Rose Argent		02-10-21 1000	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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ALS2102158

February 27, 2021

Rev. 0

CENTRAL PLATEAU CLEANUP COMPANY	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C.# W21-002-179
	<i>2102158</i>	Page 1 of 1

Collector: Juan Aguilar CPC	Contact/Requester: Karen Waters-Husted	Telephone No.: 509-376-4650
SAF No.: W21-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 900152
Project Title: RCRA, February 2021	Logbook No.: HNF-N-506 -120/29	Ice Chest No.: <i>GWS-058</i>
Shipped To (Lab): <u>ALS Environmental Ft. Collins</u>	Method of Shipment Commercial Carrier	Bill of Lading/Air Bill No.: <i>T128 6406 9232</i>
Protocol: RCRA	Priority: 30 Days	Offsite Property No.: <i>N/A</i>

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
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Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3YWV2	<i>4</i>	N	<i>FEB 09 2021</i>	<i>0843</i>	1x125-mL P	300.0_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		
Juan Aguilar CPC	<i>[Signature]</i>	<i>FEB 09 2021 1000</i>	Lorin Kelly CPC	<i>[Signature]</i>	<i>FEB 09 2021 1000</i>	S = Soil	DS = Drum Solids
Lorin Kelly CPC	<i>[Signature]</i>	<i>FEB 09 2021 1400</i>	FEDEX			SE = Sediment	DL = Drum Liquids
			Rose Argent	<i>[Signature]</i>	<i>02-10-21 1000</i>	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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ALS2102158

February 27, 2021

Rev. 0

2102158

Collector: Juan Aguilar CPOC	Contact/Requester: Karen Waters-Husted	Telephone No.: 509-376-4650
SAF No.: W21-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 900152
Project Title: RCRA, February 2021	Logbook No.: HNF-N-506 -120/29	Ice Chest No.: GWS-077
Shipped To (Lab): ALS Environmental Ft. Collins	Method of Shipment Commercial Carrier	Bill of Lading/Air Bill No.: 728 6607 2139
Protocol: RCRA	Priority: 30 Days	Offsite Property No.: (N/A)

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
 Low Volume Wells. Do not use for QC.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3YX12	5	N	W FEB 09 2021	1045	1x60-mL P	300.0_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		
Juan Aguilar CPOC	<i>[Signature]</i>	FEB 09 2021 1250	Lorin Kelly CPOC	<i>[Signature]</i>	FEB 09 2021 1250	S = Soil	DS = Drum Solids
Lorin Kelly CPOC	<i>[Signature]</i>	FEB 09 2021 1400				SE = Sediment	DL = Drum Liquids
	FEDEX					SO = Solid	T = Tissue
			Rose Argent	<i>[Signature]</i>	02-10-21 1000	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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ALS2102158

February 27, 2021

Rev. 0



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client Name/ID: CPCC Workorder No: 2102158
Project Manager: KMO Initials: RGA Date: 02/10/2051

1. Are airbills / shipping documents present and/or removable?
2. Are custody seals on shipping containers intact?
3. Are custody seals on sample containers intact?
4. Is there a COC (chain-of-custody) present?
5. Is the COC in agreement with samples received?
6. Are short-hold samples present?
7. Are all samples within holding times for the requested analyses?
8. Were all sample containers received intact?
9. Is there sufficient sample for the requested analyses?
10. Are samples in proper containers for requested analyses?
11. Are all aqueous samples preserved correctly, if required?
12. Were unpreserved samples pH checked, if required?
13. Are all samples requiring no headspace free of bubbles > 6 mm in diameter?
14. Were the samples shipped on ice?
15. Were cooler temperatures measured at 0.1 - 6.0°C?

Table with 2 columns for cooler temperatures and readings. Includes rows for Cooler #, Temperature (°C), # of custody seals, External mR/hr reading, and Background mR/hr reading.

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

Blank area for providing details for 'NO' responses.

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

If applicable, was the client contacted? YES N/A Contact Name Date:

Project Manager Signature / Date: [Signature] 2/10/21

60
2-9-21
ORIGIN ID/PSCA
BARBARA BRIGGS
GIVEN
0287 LATIWI ST

(509) 373-7409

SHIP DATE: 09FEB21
ACTWGT: 85.00 LB
CAD: 10708805/INET4340

BILL THIRD PARTY

RICHLAND, WA 99354
UNITED STATES US

TO JULIE ELLINGSON

ALS GLOBAL
225 COMMERCE DRIVE

FORT COLLINS CO 80524

(970) 480-1511

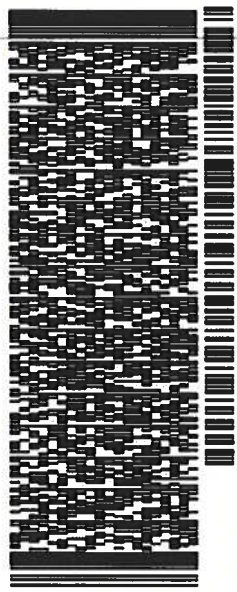
REF: 900162GWS/07

PO:

DEPT:

9-2
0.9

56D.02259B/FE4A



TRK# 7728 6607 2139
0201

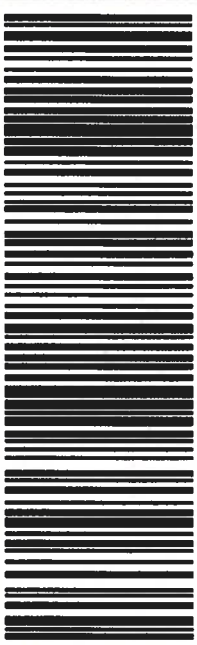
WED - 10 FEB 10:30A

PRIORITY OVERNIGHT

DSR

XH FTCA

80524
co-us DEN



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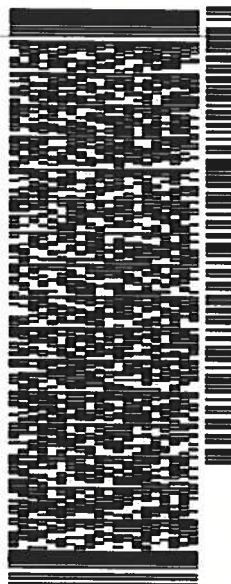
ORIGIN ID: PSCA (509) 373-7409
BARBARA BRIGGS
CH2M
6267 LATAH ST
RICHLAND, WA 99354
UNITED STATES US

SHIP DATE: 09FEB21
ACTWGT: 84.00 LB
CAD: 10706905/INET4340
BILL THIRD PARTY

TO **JULIE ELLINGSON**
ALS GLOBAL
225 COMMERCE DRIVE
FORT COLLINS CO 80524
DEPT.
REF: 900162IGMS-058
PO: (970) 490-1511

9-2
0-4

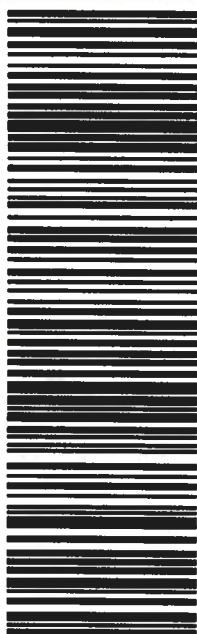
56D.I2259B/FE4A



TRK# 7728 6406 9232
0201

WED - 10 FEB 10:30A
PRIORITY OVERNIGHT
DSR

XH FTCA
80524
CO-US DEN



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Inorganics

Case Narrative

Central Plateau Cleanup Company, LLC

RCRA, February 2021 – W21-002

Work Order Number: 2102158

1. The samples were prepared for analysis based on Environmental Monitoring Systems Laboratory (EMSL) Rev 2.1 procedures.
2. The samples were analyzed following EMSL procedures for the current revision of the following SOP and method:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
Chloride	300.0 Revision 2.1	1113
Fluoride	300.0 Revision 2.1	1113
Nitrate as N	300.0 Revision 2.1	1113
Nitrite as N	300.0 Revision 2.1	1113
Sulfate	300.0 Revision 2.1	1113

3. All standards and solutions were used within their recommended shelf life.
4. The samples were prepared and analyzed within the established hold time for this analysis.

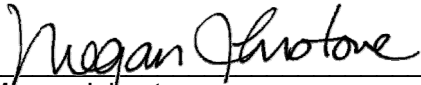
All in house quality control procedures were followed, as described below.

5. General quality control procedures.
 - n A preparation (method) blank, laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) were prepared and analyzed with the samples in this preparation batch.
 - n The method blank associated with this batch was below the reporting limit for the requested analytes. Sample results have been compared to the blank results and are flagged as appropriate.
 - n All laboratory control sample criteria were met.



- n All initial and continuing calibration blanks were below the reporting limit for the requested analytes.
 - n All initial and continuing calibration verifications were within the acceptance criteria for the requested analytes.
6. Matrix specific quality control procedures.
- Sample 2102155-3 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.
- n A matrix spike (MS) was prepared and analyzed with this batch. All guidance criteria for precision and accuracy were met.
7. It is a standard practice that samples for CPCC on the ion chromatograph are analyzed at a dilution. The 2X factor can be considered an artifact of the prep and does not indicate a secondary dilution and is therefore not flagged as a dilution. Sample 2102158-5 was further diluted in order to bring nitrate as N into the analytical range of the instrument.
8. Manual integrations are performed when needed to provide consistent and defensible data following the guidelines in the current revision of SOP 939.

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
Inorganics Primary Data Reviewer

2/27/21
Date



Inorganics Final Data Reviewer

2/27/21
Date



Inorganic Data Reporting Qualifiers

The following qualifiers are used as needed by the laboratory when reporting results of inorganic analyses.

- Concentration qualifier -- A "B" is entered if the reported value was obtained from a reading that was less than the Reporting Limit but greater than or equal to ALS's Method Detection Limit. If the analyte was analyzed for but not detected a "U" is entered.
- QC qualifier -- Specified entries and their meanings are as follows:
 - E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
 - M - Duplicate injection precision was not met.
 - N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
 - Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
 - * - Duplicate analysis (relative percent difference) not within control limits.
 - S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.
 - C - The analyte was detected in both the sample and the associated QC blank, and the sample concentration was $\leq 20X$ the blank concentration.
 - D - Analyte was reported at a secondary dilution factor, typically $DF > 1$ (i.e., the primary preparation required dilution to either bring the analyte within the calibration range or to minimize interference). Required for organics/wetchem if the sample was diluted.

Ion Chromatography

Method EPA300.0 Revision 2.1

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2102158

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, February 2021 W21-002

Field ID: B3YVV1

Lab ID: 2102158-3

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 09-Feb-21

Date Extracted: 10-Feb-21

Date Analyzed: 10-Feb-21

Prep Method: NONE

Prep Batch: IC210210-1

QC Batch ID: IC210210-1-1

Run ID: IC210210-1a2

Cleanup: NONE

Basis: As Received

File Name: 210210IC3LIMS

Analyst: Keli J. Smith

Sample Aliquot: 5 ml

Final Volume: 5 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
16984-48-8	FLUORIDE	2	0.34		0.2	0.078
16887-00-6	CHLORIDE	2	20		0.4	0.15
14797-65-0	NITRITE AS N	2	0.14	U	0.3	0.14
14797-55-8	NITRATE AS N	2	12		0.4	0.18
14808-79-8	SULFATE	2	39		2	1.1

Data Package ID: *ic2102158-1*

Date Printed: Friday, February 26, 2021

ALS -- Fort Collins

Page 1 of 3

LIMS Version: 7.013

Ion Chromatography

Method EPA300.0 Revision 2.1

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2102158

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, February 2021 W21-002

Field ID: B3YVW2

Lab ID: 2102158-4

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 09-Feb-21

Date Extracted: 10-Feb-21

Date Analyzed: 10-Feb-21

Prep Method: NONE

Prep Batch: IC210210-1

QC Batch ID: IC210210-1-1

Run ID: IC210210-1a2

Cleanup: NONE

Basis: As Received

File Name: 210210IC3LIMS

Analyst: Keli J. Smith

Sample Aliquot: 5 ml

Final Volume: 5 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
16984-48-8	FLUORIDE	2	0.34		0.2	0.078
16887-00-6	CHLORIDE	2	20		0.4	0.15
14797-65-0	NITRITE AS N	2	0.14	U	0.3	0.14
14797-55-8	NITRATE AS N	2	12		0.4	0.18
14808-79-8	SULFATE	2	39		2	1.1

Data Package ID: *ic2102158-1*

Date Printed: Friday, February 26, 2021

ALS -- Fort Collins

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LIMS Version: 7.013

Ion Chromatography

Method EPA300.0 Revision 2.1

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2102158

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, February 2021 W21-002

Field ID:	B3YX12
Lab ID:	2102158-5

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 09-Feb-21

Date Extracted: 10-Feb-21

Date Analyzed: 10-Feb-21

Prep Method: NONE

Prep Batch: IC210210-1

QCBatchID: IC210210-1-1

Run ID: IC210210-1a2

Cleanup: NONE

Basis: As Received

File Name: 210210IC3LIMS

Analyst: Keli J. Smith

Sample Aliquot: 5 ml

Final Volume: 5 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
16984-48-8	FLUORIDE	2	1.2		0.2	0.078
16887-00-6	CHLORIDE	2	27		0.4	0.15
14797-65-0	NITRITE AS N	2	0.14	U	0.3	0.14
14797-55-8	NITRATE AS N	5	74	D	1	0.46
14808-79-8	SULFATE	2	47		2	1.1

Data Package ID: *ic2102158-1*

Ion Chromatography

Method EPA300.0 Revision 2.1

Method Blank

Lab Name: ALS -- Fort Collins

Work Order Number: 2102158

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, February 2021 W21-002

Lab ID: IC210210-1MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 10-Feb-21

Date Analyzed: 10-Feb-21

Prep Batch: IC210210-1

QCBatchID: IC210210-1-1

Run ID: IC210210-1a2

Cleanup: NONE

Basis: N/A

File Name: 210210IC3LIMS

Sample Aliquot: 5 ml

Final Volume: 5 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	Result Qualifier	Reporting Limit	MDL
16984-48-8	FLUORIDE	1	0.039	U	0.1	0.039
16887-00-6	CHLORIDE	1	0.076	U	0.2	0.076
14797-65-0	NITRITE AS N	1	0.069	U	0.15	0.069
14797-55-8	NITRATE AS N	1	0.092	U	0.2	0.092
14808-79-8	SULFATE	1	0.53	U	1	0.53

Data Package ID: ic2102158-1

Date Printed: Friday, February 26, 2021

ALS -- Fort Collins

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LIMS Version: 7.013

Ion Chromatography

Method EPA300.0 Revision 2.1

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS -- Fort Collins

Work Order Number: 2102158

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, February 2021 W21-002

Lab ID: IC210210-1LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 02/10/2021

Date Analyzed: 02/10/2021

Prep Method: NONE

Prep Batch: IC210210-1

QCBatchID: IC210210-1-1

Run ID: IC210210-1a2

Cleanup: NONE

Basis: N/A

File Name: 210210IC3LIMS

Sample Aliquot: 5 ml

Final Volume: 5 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
16984-48-8	FLUORIDE	5	4.93	0.1		99	90 - 110%
16887-00-6	CHLORIDE	10	10.1	0.2		101	90 - 110%
14797-65-0	NITRITE AS N	4.98	4.68	0.15		94	90 - 110%
14797-55-8	NITRATE AS N	10	10	0.2		100	90 - 110%
14808-79-8	SULFATE	50	50.7	1		101	90 - 110%

Lab ID: IC210210-1LCSD

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 02/10/2021

Date Analyzed: 02/10/2021

Prep Method: NONE

Prep Batch: IC210210-1

QCBatchID: IC210210-1-1

Run ID: IC210210-1a2

Cleanup: NONE

Basis: N/A

File Name: 210210IC3LIMS

Sample Aliquot: 5 ml

Final Volume: 5 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
16984-48-8	FLUORIDE	5	4.91	0.1		98	15	0
16887-00-6	CHLORIDE	10	10.1	0.2		101	15	0
14797-65-0	NITRITE AS N	4.98	4.66	0.15		94	15	0
14797-55-8	NITRATE AS N	10	9.96	0.2		100	15	1
14808-79-8	SULFATE	50	50.6	1		101	15	0

Data Package ID: *ic2102158-1*

Ion Chromatography

Method EPA300.0 Revision 2.1

Matrix Spike

Lab Name: ALS -- Fort Collins

Work Order Number: 2102158

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, February 2021 W21-002

Field ID:	SHARED QC
LabID:	2102155-3MS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 09-Feb-21

Date Extracted: 10-Feb-21

Date Analyzed: 10-Feb-21

Prep Batch: IC210210-1

QCBatchID: IC210210-1-1

Run ID: IC210210-1a2

Cleanup: NONE

Basis: As Received

Sample Aliquot: 5 ml

Final Volume: 5 ml

Result Units: MG/L

File Name: 210210IC3LIMS

CASNO	Target Analyte	Sample Result	Samp Qual	MS Result	MS Qual	Reporting Limit	Spike Added	MS % Rec.	Control Limits
16984-48-8	FLUORIDE	0.49		4.35		0.2	4	96	85 - 115%
16887-00-6	CHLORIDE	12		21.7		0.4	10	101	85 - 115%
14797-65-0	NITRITE AS N	0.3	U	3.59		0.3	3.98	90	85 - 115%
14797-55-8	NITRATE AS N	8.5		18.7		0.4	10	102	85 - 115%
14808-79-8	SULFATE	100		143		2	40	99	85 - 115%

Data Package ID: ic2102158-1

Date Printed: Friday, February 26, 2021

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LIMS Version: 7.013

Prep Batch ID: IC210210-1

Start Date: 02/10/21

End Date: 02/10/21

Concentration Method: NONE

Batch Created By: kjs

Start Time: 8:00

End Time: 14:30

Extract Method: NONE

Date Created: 02/10/21

Prep Analyst: Keli J. Smith

Initial Volume Units: ml

Time Created: 8:16

Comments:

Final Volume Units: ml

Validated By: kjs

Date Validated: 02/11/21

Time Validated: 13:58

QC Batch ID: IC210210-1-1

Lab ID	QC Type	Field ID	Matrix	Date Collected	Initial Wt/Vol	Final Wt/Vol	Cleanup Method	Cleanup DF	Order Number
IC210210-1	MB	XXXXXX	WATER	XXXXXX	5	5	NONE	1	2102155
IC210210-1	LCS	XXXXXX	WATER	XXXXXX	5	5	NONE	1	2102155
IC210210-1	LCSD	XXXXXX	WATER	XXXXXX	5	5	NONE	1	2102155
2102041-1	MS	XXXXXX	WATER	XXXXXX	5	5	NONE	1	2102041
2102070-2	MS	XXXXXX	WATER	XXXXXX	5	5	NONE	1	2102070
2102155-3	MS	XXXXXX	WATER	XXXXXX	5	5	NONE	1	2102155
2101499-1	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	2101499
2102041-1	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	2102041
2102041-2	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	2102041
2102041-3	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	2102041
2102041-4	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	2102041
2102041-5	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	2102041
2102041-6	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	2102041
2102041-7	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	2102041
2102041-8	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	2102041
2102042-1	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	2102042
2102070-2	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	2102070
2102070-9	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	2102070
2102083-1	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	2102083
2102083-2	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	2102083
2102138-1	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	2102138
2102155-3	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	2102155
2102158-3	SMP	B3YWV1	WATER	2/9/2021	5	5	NONE	1	2102158
2102158-4	SMP	B3YWV2	WATER	2/9/2021	5	5	NONE	1	2102158
2102158-5	SMP	B3YX12	WATER	2/9/2021	5	5	NONE	1	2102158
2102159-11	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	2102159

Prep Batch ID: IC210210-1

Start Date: 02/10/21	End Date: 02/10/21	Concentration Method: NONE	Batch Created By: kjs
Start Time: 8:00	End Time: 14:30	Extract Method: NONE	Date Created: 02/10/21
Prep Analyst: Keli J. Smith		Initial Volume Units: ml	Time Created: 8:16
Comments:		Final Volume Units: ml	Validated By: kjs
			Date Validated: 02/11/21
			Time Validated: 13:58

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



PCBs

Case Narrative

Central Plateau Cleanup Company, LLC

RCRA, February 2021 – W21-002

Work Order Number: 2102158

1. These samples were extracted and analyzed according to SW-846, 4th Edition procedures. Specifically, the water samples were extracted using continuous liquid-liquid extractors according to the current revision of SOP 617 based on Method 3520C.

The extracts were then processed using sulfuric acid cleanup according to the current revision of SOP 651 based on Method 3665A in an attempt to remove potential interferences.

2. The extracts were then analyzed using GC/ECD (electron capture detectors) according to the current revision of SOP 409 based on SW-846 Method 8082. All positive results were then confirmed on a secondary column. Unless interferences were present, the quantitation of each analyte is the higher of the concentrations obtained from each column that met initial and continuing calibration criteria. Note that analyst raw data annotation may provide further clarification.
3. All initial and continuing calibration criteria were met with the following exception:

Sequence 02/19/21

-Continuing calibration 1660 CCV (data file 32090) – decachlorobiphenyl was out low on column 1.

Quantitation for each analyte was reported from the column that passed initial and continuing calibration criteria.

4. The method blank associated with this project was below the MDL for all analytes.
5. All laboratory control sample recoveries were within the acceptance criteria.
6. Sample 2102158-1 was designated as the quality control sample for this analysis.



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 matrix spike and matrix spike duplicate recoveries and RPDs were within acceptance criteria with the following exception:

Spiked Compound	QC Sample	Direction
Aroclor 1260	MS	Low

The recovery of this compound in the laboratory control sample was within control limits, which suggest that the outlier in the matrix spike may have been due to matrix effects. No further action was taken. Laboratory control sample results have been included.

7. Per SW-846, 4th Edition, there is no holding time for the preparation and analysis of polychlorinated biphenyls (PCBs).
8. All surrogate recoveries were within acceptance criteria.
9. Manual integrations are performed when needed to provide consistent and defensible data following the guidelines in the current revision of SOP 939.

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.

Mindy Norton

Mindy Norton
Organics Primary Data Reviewer

2/24/21
Date

Kathleen M. O'Leary

Organics Final Data Reviewer

2/27/21
Date

ALS
Data Qualifier Flags
Organics

- U or ND:** This flag indicates that the compound was analyzed for but not detected.
- J:** This flag indicates an estimated value. This flag is used as follows : (1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the reporting limit (RL) but greater than the method detection limit (MDL); (3) when the retention time data indicate the presence of a compound that meets the GC identification criteria, and the result is less than the RL but greater than the MDL; and (4) the reported value is estimated.
- B:** This flag is used when the analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user. This flag shall be used for a tentatively identified compound (TIC) as well as for a positively identified target compound.
- E:** This flag identifies compounds whose concentration exceeds the upper level of the calibration range.
- A:** This flag indicates that a tentatively identified compound is a suspected aldol-condensation product.
- X:** This flag indicates that the analyte was diluted below an accurate quantitation level.
- *:** This flag indicates that a spike recovery is equal to or outside the control criteria used.
- +:** This flag indicates that the relative percent difference (RPD) equals or exceeds the control criteria.

PCBs**Method SW8082****Method Blank****Lab Name:** ALS -- Fort Collins**Work Order Number:** 2102158**Client Name:** Central Plateau Cleanup Company, LLC**ClientProject ID:** RCRA, February 2021 W21-002**Lab ID:** EX210215-1BMB**Sample Matrix:** WATER

% Moisture: N/A

Date Collected: N/A**Date Extracted:** 15-Feb-21**Date Analyzed:** 19-Feb-21**Prep Batch:** EX210215-1**QCBatchID:** EX210215-1-2**Run ID:** PT210219-11**Cleanup:** SW3665**Basis:** N/A**File Name:** 32078.dat**Sample Aliquot:** 1000 ml**Final Volume:** 10 ml**Result Units:** UG/L**Clean DF:** 1

CASNO	Target Analyte	DF	Result	Result Qualifier	Reporting Limit	MDL
12674-11-2	AROCLOR-1016	1	0.15	U	1	0.15
11104-28-2	AROCLOR-1221	1	0.15	U	2	0.15
11141-16-5	AROCLOR-1232	1	0.15	U	1	0.15
53469-21-9	AROCLOR-1242	1	0.15	U	1	0.15
12672-29-6	AROCLOR-1248	1	0.15	U	1	0.15
11097-69-1	AROCLOR-1254	1	0.15	U	1	0.15
11096-82-5	AROCLOR-1260	1	0.15	U	1	0.15

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.216		0.5	43	4 - 151
877-09-8	TETRACHLORO-M-XYLENE	0.449		0.5	90	66 - 130

Data Package ID: PT2102158-2

PCBs**Method SW8082****Sample Results**

Lab Name: ALS -- Fort Collins

Work Order Number: 2102158

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, February 2021 W21-002

Field ID: B3YWT6

Lab ID: 2102158-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 09-Feb-21

Date Extracted: 15-Feb-21

Date Analyzed: 19-Feb-21

Prep Method: SW3520 Rev C

Prep Batch: EX210215-1

QCBatchID: EX210215-1-2

Run ID: PT210219-11

Cleanup: SW3665

Basis: As Received

File Name: 32080.dat

Analyst: Dan Sheneman

Sample Aliquot: 1080 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

Analysis ReqCode: 8082_PCB_GC: C

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
12674-11-2	AROCLOR-1016	1	0.14	U	0.93	0.14
11104-28-2	AROCLOR-1221	1	0.14	U	1.9	0.14
11141-16-5	AROCLOR-1232	1	0.14	U	0.93	0.14
53469-21-9	AROCLOR-1242	1	0.14	U	0.93	0.14
12672-29-6	AROCLOR-1248	1	0.14	U	0.93	0.14
11097-69-1	AROCLOR-1254	1	0.14	U	0.93	0.14
11096-82-5	AROCLOR-1260	1	0.14	U	0.93	0.14

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.272		0.463	59	4 - 151
877-09-8	TETRACHLORO-M-XYLENE	0.449		0.463	97	66 - 130

Data Package ID: PT2102158-2

PCBs

Method SW8082

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2102158

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, February 2021 W21-002

Field ID: B3YWT7

Lab ID: 2102158-2

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 09-Feb-21

Date Extracted: 15-Feb-21

Date Analyzed: 19-Feb-21

Prep Method: SW3520 Rev C

Prep Batch: EX210215-1

QC Batch ID: EX210215-1-2

Run ID: PT210219-11

Cleanup: SW3665

Basis: As Received

File Name: 32084.dat

Analyst: Dan Sheneman

Sample Aliquot: 1080 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

Analysis ReqCode: 8082_PCB_GC: C

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
12674-11-2	AROCLOR-1016	1	0.14	U	0.93	0.14
11104-28-2	AROCLOR-1221	1	0.14	U	1.9	0.14
11141-16-5	AROCLOR-1232	1	0.14	U	0.93	0.14
53469-21-9	AROCLOR-1242	1	0.14	U	0.93	0.14
12672-29-6	AROCLOR-1248	1	0.14	U	0.93	0.14
11097-69-1	AROCLOR-1254	1	0.14	U	0.93	0.14
11096-82-5	AROCLOR-1260	1	0.14	U	0.93	0.14

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.23		0.463	50	4 - 151
877-09-8	TETRACHLORO-M-XYLENE	0.427		0.463	92	66 - 130

Data Package ID: PT2102158-2

PCBs**Method SW8082****Laboratory Control Sample**

Lab Name: ALS -- Fort Collins

Work Order Number: 2102158

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, February 2021 W21-002

Lab ID: EX210215-1BLCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 02/15/2021

Date Analyzed: 02/19/2021

Prep Method: SW3520C

Prep Batch: EX210215-1

QCBatchID: EX210215-1-2

Run ID: PT210219-11

Cleanup: SW3665

Basis: N/A

File Name: 32079.dat

Sample Aliquot: 1000 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
12674-11-2	AROCLOR-1016	4	3.92	1		98	76 - 124%
11096-82-5	AROCLOR-1260	4	3.6	1		90	79 - 133%

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.264		0.5	53	4 - 151
877-09-8	TETRACHLORO-M-XYLENE	0.455		0.5	91	66 - 130

Data Package ID: *PT2102158-2*

PCBs

Method SW8082

Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS -- Fort Collins

Work Order Number: 2102158

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, February 2021 W21-002

Field ID: B3YWT6

LabID: 2102158-1MS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 09-Feb-21

Date Extracted: 15-Feb-21

Date Analyzed: 19-Feb-21

Prep Method: SW3520 Rev C

Prep Batch: EX210215-1

QCBatchID: EX210215-1-2

Run ID: PT210219-11

Cleanup: SW3665

Basis: As Received

Sample Aliquot: 1080 ml

Final Volume: 10 ml

Result Units: UG/L

File Name: 32082.dat

CASNO	Target Analyte	Sample Result	Samp Qual	MS Result	MS Qual	Reporting Limit	Spike Added	MS % Rec.	Control Limits
12674-11-2	AROCLOR-1016	0.139	U	3.53		0.926	3.7	95	76 - 124%
11096-82-5	AROCLOR-1260	0.139	U	2.8	*	0.926	3.7	76	79 - 133%

Field ID: B3YWT6

LabID: 2102158-1MSD

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 09-Feb-21

Date Extracted: 15-Feb-21

Date Analyzed: 19-Feb-21

Prep Method: SW3520 Rev C

Prep Batch: EX210215-1

QCBatchID: EX210215-1-2

Run ID: PT210219-11

Cleanup: SW3665

Basis: As Received

Sample Aliquot: 1080 ml

Final Volume: 10 ml

Result Units: UG/L

File Name: 32083.dat

CASNO	Target Analyte	MSD Result	MSD Qual	Spike Added	MSD % Rec.	Reporting Limit	RPD Limit	RPD
12674-11-2	AROCLOR-1016	3.59		3.7	97	0.926	30	2
11096-82-5	AROCLOR-1260	2.94		3.7	79	0.926	30	5

Surrogate Recovery MS/MSD

CASNO	Target Analyte	Spike Added	MS % Rec.	MS Flag	MSD % Rec.	MSD Flag	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.463	43		50		4 - 151
877-09-8	TETRACHLORO-M-XYLENE	0.463	86		90		66 - 130

Data Package ID: PT2102158-2

Prep Batch ID: EX210215-1

Start Date: 02/15/21	End Date: 02/16/21	Concentration Method: CKIS	Batch Created By: cpc
Start Time: 14:00	End Time: 9:00	Extract Method: SW3520C	Date Created: 02/15/21
Prep Analyst: Chris P. Casillas		Initial Volume Units: ml	Time Created: 13:47
<u>Comments:</u>		Final Volume Units: ml	Validated By: cpc
			Date Validated: 02/17/21
			Time Validated: 13:01

QC Batch ID: EX210215-1-2

Lab ID	QC Type	Field ID	Matrix	Date Collected	Initial Wt/Vol	Final Wt/Vol	Cleanup Method	Cleanup DF	Order Number
EX210215-1B	MB	XXXXXX	WATER	XXXXXX	1000	10	SW3665	1	2102158
EX210215-1B	LCS	XXXXXX	WATER	XXXXXX	1000	10	SW3665	1	2102158
2102158-1	MS	B3YWT6	WATER	2/9/2021	1080	10	SW3665	1	2102158
2102158-1	MSD	B3YWT6	WATER	2/9/2021	1080	10	SW3665	1	2102158
2102129-1	SMP	XXXXXX	WATER	XXXXXX	1080	10	SW3665	1	2102129
2102129-2	SMP	XXXXXX	WATER	XXXXXX	1060	10	SW3665	1	2102129
2102129-3	SMP	XXXXXX	WATER	XXXXXX	1060	10	SW3665	1	2102129
2102129-4	SMP	XXXXXX	WATER	XXXXXX	1080	10	SW3665	1	2102129
2102158-1	SMP	B3YWT6	WATER	2/9/2021	1080	10	SW3665	1	2102158
2102158-2	SMP	B3YWT7	WATER	2/9/2021	1080	10	SW3665	1	2102158
2102193-1	SMP	XXXXXX	WATER	XXXXXX	1080	10	SW3665	1	2102193

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 Duplicate	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



Pesticides

Case Narrative

Central Plateau Cleanup Company, LLC

RCRA, February 2021 – W21-002

Work Order Number: 2102158

1. These samples were extracted and analyzed according to SW-846, 3rd Edition procedures. Specifically, the water samples were extracted using continuous liquid-liquid extractors, according to the current revision of SOP 617 based on Method 3520C.
2. The extracts were then analyzed using GC/ECD (electron capture detectors) according to the current revision of SOP 402 based on Method 8081B. All positive results were then confirmed on a secondary column. Unless interferences were present, the quantitation of each analyte is the higher of the concentrations obtained from each column that met initial and continuing calibration criteria. Note that analyst raw data annotation may provide further clarification.
3. The breakdown for endrin and 4,4'-DDT met acceptance criteria.
4. All initial and continuing calibration criteria were met.
5. The method blank associated with this project was below the MDL for all analytes.
6. All laboratory control sample recoveries were within the acceptance criteria.
7. Sample 2102158-1 was designated as the quality control sample for this analysis.

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 matrix spike and matrix spike duplicate recoveries and RPDs were within acceptance criteria.

8. All samples were extracted and analyzed within the established holding times.
9. All surrogate recoveries were within acceptance criteria.



10. Manual integrations are performed when needed to provide consistent and defensible data following the guidelines in the current revision of SOP 939.

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.

Mindy Norton
Mindy Norton
Organics Primary Data Reviewer

2/24/21
Date

[Signature]
Organics Final Data Reviewer

2/27/21
Date

ALS
Data Qualifier Flags
Organics

- U or ND:** This flag indicates that the compound was analyzed for but not detected.
- J:** This flag indicates an estimated value. This flag is used as follows : (1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the reporting limit (RL) but greater than the method detection limit (MDL); (3) when the retention time data indicate the presence of a compound that meets the GC identification criteria, and the result is less than the RL but greater than the MDL; and (4) the reported value is estimated.
- B:** This flag is used when the analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user. This flag shall be used for a tentatively identified compound (TIC) as well as for a positively identified target compound.
- E:** This flag identifies compounds whose concentration exceeds the upper level of the calibration range.
- A:** This flag indicates that a tentatively identified compound is a suspected aldol-condensation product.
- X:** This flag indicates that the analyte was diluted below an accurate quantitation level.
- *:** This flag indicates that a spike recovery is equal to or outside the control criteria used.
- +:** This flag indicates that the relative percent difference (RPD) equals or exceeds the control criteria.

Organochlorine Pesticides

Method SW8081B

Method Blank

Lab Name: ALS -- Fort Collins

Work Order Number: 2102158

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, February 2021 W21-002

Lab ID: EX210215-1AMB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 15-Feb-21

Date Analyzed: 18-Feb-21

Prep Batch: EX210215-1

QCBatchID: EX210215-1-1

Run ID: PT210218-10A

Cleanup: NONE

Basis: N/A

File Name: 18055.dat

Sample Aliquot: 1000 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	Result Qualifier	Reporting Limit	MDL
319-84-6	ALPHA-BHC	1	0.025	U	0.05	0.025
58-89-9	GAMMA-BHC (LINDANE)	1	0.025	U	0.05	0.025
76-44-8	HEPTACHLOR	1	0.025	U	0.05	0.025
309-00-2	ALDRIN	1	0.025	U	0.05	0.025
319-85-7	BETA-BHC	1	0.025	U	0.05	0.025
319-86-8	DELTA-BHC	1	0.025	U	0.05	0.025
1024-57-3	HEPTACHLOR EPOXIDE	1	0.025	U	0.05	0.025
959-98-8	ENDOSULFAN I	1	0.025	U	0.05	0.025
5103-74-2	GAMMA-CHLORDANE	1	0.025	U	0.05	0.025
5103-71-9	ALPHA-CHLORDANE	1	0.025	U	0.05	0.025
72-55-9	4,4'-DDE	1	0.025	U	0.05	0.025
60-57-1	DIELDRIN	1	0.025	U	0.05	0.025
72-20-8	ENDRIN	1	0.025	U	0.05	0.025
72-54-8	4,4'-DDD	1	0.025	U	0.05	0.025
33213-65-9	ENDOSULFAN II	1	0.025	U	0.05	0.025
50-29-3	4,4'-DDT	1	0.025	U	0.05	0.025
7421-93-4	ENDRIN ALDEHYDE	1	0.025	U	0.05	0.025
72-43-5	METHOXYCHLOR	1	0.075	U	0.25	0.075
1031-07-8	ENDOSULFAN SULFATE	1	0.025	U	0.05	0.025
53494-70-5	ENDRIN KETONE	1	0.025	U	0.05	0.025
8001-35-2	TOXAPHENE	1	0.75	U	2.5	0.75

Data Package ID: PT2102158-1

Organochlorine Pesticides

Method SW8081B

Method Blank

Lab Name: ALS -- Fort Collins

Work Order Number: 2102158

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, February 2021 W21-002

Lab ID: EX210215-1AMB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 15-Feb-21

Date Analyzed: 18-Feb-21

Prep Batch: EX210215-1

QCBatchID: EX210215-1-1

Run ID: PT210218-10A

Cleanup: NONE

Basis: N/A

File Name: 18055.dat

Sample Aliquot: 1000 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	Result Qualifier	Reporting Limit	MDL
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Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.221		0.5	44	1 - 144
877-09-8	TETRACHLORO-M-XYLENE	0.46		0.5	92	69 - 120

Data Package ID: PT2102158-1

Organochlorine Pesticides

Method SW8081B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2102158

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, February 2021 W21-002

Field ID: B3YWT6

Lab ID: 2102158-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 09-Feb-21

Date Extracted: 15-Feb-21

Date Analyzed: 18-Feb-21

Prep Method: SW3520 Rev C

Prep Batch: EX210215-1

QCBatchID: EX210215-1-1

Run ID: PT210218-10A

Cleanup: NONE

Basis: As Received

File Name: 18057.dat

Analyst: Dan Sheneman

Sample Aliquot: 1080 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

Analysis ReqCode: 8081_PEST_GC:

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
319-84-6	ALPHA-BHC	1	0.023	U	0.046	0.023
58-89-9	GAMMA-BHC (LINDANE)	1	0.023	U	0.046	0.023
76-44-8	HEPTACHLOR	1	0.023	U	0.046	0.023
309-00-2	ALDRIN	1	0.023	U	0.046	0.023
319-85-7	BETA-BHC	1	0.023	U	0.046	0.023
319-86-8	DELTA-BHC	1	0.023	U	0.046	0.023
1024-57-3	HEPTACHLOR EPOXIDE	1	0.023	U	0.046	0.023
959-98-8	ENDOSULFAN I	1	0.023	U	0.046	0.023
5103-74-2	GAMMA-CHLORDANE	1	0.023	U	0.046	0.023
5103-71-9	ALPHA-CHLORDANE	1	0.023	U	0.046	0.023
72-55-9	4,4'-DDE	1	0.023	U	0.046	0.023
60-57-1	DIELDRIN	1	0.023	U	0.046	0.023
72-20-8	ENDRIN	1	0.023	U	0.046	0.023
72-54-8	4,4'-DDD	1	0.023	U	0.046	0.023
33213-65-9	ENDOSULFAN II	1	0.023	U	0.046	0.023
50-29-3	4,4'-DDT	1	0.023	U	0.046	0.023
7421-93-4	ENDRIN ALDEHYDE	1	0.023	U	0.046	0.023
72-43-5	METHOXYCHLOR	1	0.069	U	0.23	0.069
1031-07-8	ENDOSULFAN SULFATE	1	0.023	U	0.046	0.023
53494-70-5	ENDRIN KETONE	1	0.023	U	0.046	0.023
8001-35-2	TOXAPHENE	1	0.69	U	2.3	0.69

Data Package ID: PT2102158-1

Organochlorine Pesticides

Method SW8081B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2102158

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, February 2021 W21-002

Field ID: B3YWT6

Lab ID: 2102158-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 09-Feb-21

Date Extracted: 15-Feb-21

Date Analyzed: 18-Feb-21

Prep Method: SW3520 Rev C

Prep Batch: EX210215-1

QC Batch ID: EX210215-1-1

Run ID: PT210218-10A

Cleanup: NONE

Basis: As Received

File Name: 18057.dat

Analyst: Dan Sheneman

Sample Aliquot: 1080 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

Analysis ReqCode: 8081_PEST_GC:

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
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Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.264		0.463	57	1 - 144
877-09-8	TETRACHLORO-M-XYLENE	0.464		0.463	100	69 - 120

Data Package ID: PT2102158-1

Organochlorine Pesticides

Method SW8081B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2102158

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, February 2021 W21-002

Field ID: B3YWT7

Lab ID: 2102158-2

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 09-Feb-21

Date Extracted: 15-Feb-21

Date Analyzed: 18-Feb-21

Prep Method: SW3520 Rev C

Prep Batch: EX210215-1

QC Batch ID: EX210215-1-1

Run ID: PT210218-10A

Cleanup: NONE

Basis: As Received

File Name: 18060.dat

Analyst: Dan Sheneman

Sample Aliquot: 1080 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

Analysis ReqCode: 8081_PEST_GC:

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
319-84-6	ALPHA-BHC	1	0.023	U	0.046	0.023
58-89-9	GAMMA-BHC (LINDANE)	1	0.023	U	0.046	0.023
76-44-8	HEPTACHLOR	1	0.023	U	0.046	0.023
309-00-2	ALDRIN	1	0.023	U	0.046	0.023
319-85-7	BETA-BHC	1	0.023	U	0.046	0.023
319-86-8	DELTA-BHC	1	0.023	U	0.046	0.023
1024-57-3	HEPTACHLOR EPOXIDE	1	0.023	U	0.046	0.023
959-98-8	ENDOSULFAN I	1	0.023	U	0.046	0.023
5103-74-2	GAMMA-CHLORDANE	1	0.023	U	0.046	0.023
5103-71-9	ALPHA-CHLORDANE	1	0.023	U	0.046	0.023
72-55-9	4,4'-DDE	1	0.023	U	0.046	0.023
60-57-1	DIELDRIN	1	0.023	U	0.046	0.023
72-20-8	ENDRIN	1	0.023	U	0.046	0.023
72-54-8	4,4'-DDD	1	0.023	U	0.046	0.023
33213-65-9	ENDOSULFAN II	1	0.023	U	0.046	0.023
50-29-3	4,4'-DDT	1	0.023	U	0.046	0.023
7421-93-4	ENDRIN ALDEHYDE	1	0.023	U	0.046	0.023
72-43-5	METHOXYCHLOR	1	0.069	U	0.23	0.069
1031-07-8	ENDOSULFAN SULFATE	1	0.023	U	0.046	0.023
53494-70-5	ENDRIN KETONE	1	0.023	U	0.046	0.023
8001-35-2	TOXAPHENE	1	0.69	U	2.3	0.69

Data Package ID: PT2102158-1

Organochlorine Pesticides

Method SW8081B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2102158

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, February 2021 W21-002

Field ID: B3YWT7

Lab ID: 2102158-2

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 09-Feb-21

Date Extracted: 15-Feb-21

Date Analyzed: 18-Feb-21

Prep Method: SW3520 Rev C

Prep Batch: EX210215-1

QC Batch ID: EX210215-1-1

Run ID: PT210218-10A

Cleanup: NONE

Basis: As Received

File Name: 18060.dat

Analyst: Dan Sheneman

Sample Aliquot: 1080 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

Analysis ReqCode: 8081_PEST_GC:

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
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Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.246		0.463	53	1 - 144
877-09-8	TETRACHLORO-M-XYLENE	0.453		0.463	98	69 - 120

Data Package ID: PT2102158-1

Organochlorine Pesticides

Method SW8081B

Laboratory Control Sample

Lab Name: ALS -- Fort Collins

Work Order Number: 2102158

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, February 2021 W21-002

Lab ID: EX210215-1ALCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 02/15/2021

Date Analyzed: 02/18/2021

Prep Method: SW3520C

Prep Batch: EX210215-1

QCBatchID: EX210215-1-1

Run ID: PT210218-10A

Cleanup: NONE

Basis: N/A

File Name: 18056.dat

Sample Aliquot: 1000 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
319-84-6	ALPHA-BHC	0.4	0.399	0.05		100	80 - 122%
58-89-9	GAMMA-BHC (LINDANE)	0.4	0.39	0.05		97	80 - 124%
76-44-8	HEPTACHLOR	0.4	0.36	0.05		90	75 - 120%
309-00-2	ALDRIN	0.4	0.408	0.05		102	80 - 120%
319-85-7	BETA-BHC	0.4	0.379	0.05		95	80 - 122%
319-86-8	DELTA-BHC	0.4	0.375	0.05		94	78 - 126%
1024-57-3	HEPTACHLOR EPOXIDE	0.4	0.386	0.05		96	80 - 123%
959-98-8	ENDOSULFAN I	0.4	0.386	0.05		97	64 - 126%
5103-74-2	GAMMA-CHLORDANE	0.4	0.396	0.05		99	80 - 124%
5103-71-9	ALPHA-CHLORDANE	0.4	0.399	0.05		100	78 - 124%
72-55-9	4,4'-DDE	0.4	0.41	0.05		102	80 - 124%
60-57-1	DIELDRIN	0.4	0.388	0.05		97	80 - 123%
72-20-8	ENDRIN	0.4	0.349	0.05		87	20 - 165%
72-54-8	4,4'-DDD	0.4	0.345	0.05		86	80 - 126%
33213-65-9	ENDOSULFAN II	0.4	0.366	0.05		91	66 - 132%
50-29-3	4,4'-DDT	0.4	0.348	0.05		87	67 - 149%
7421-93-4	ENDRIN ALDEHYDE	0.4	0.373	0.05		93	67 - 149%
72-43-5	METHOXYCHLOR	0.4	0.347	0.25		87	68 - 152%
1031-07-8	ENDOSULFAN SULFATE	0.4	0.355	0.05		89	74 - 130%
53494-70-5	ENDRIN KETONE	0.4	0.349	0.05		87	73 - 139%

Data Package ID: PT2102158-1

Date Printed: Wednesday, February 24, 2021

ALS -- Fort Collins

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LIMS Version: 7.013

Organochlorine Pesticides

Method SW8081

Laboratory Control Sample

Lab Name: ALS -- Fort Collins

Work Order Number: 2102158

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, February 2021 W21-002

Lab ID: EX210215-1ALCS	Sample Matrix: WATER % Moisture: N/A Date Collected: N/A Date Extracted: 02/15/2021 Date Analyzed: 02/18/2021 Prep Method: SW3520C	Prep Batch: EX210215-1 QCBatchID: EX210215-1-1 Run ID: PT210218-10A Cleanup: NONE Basis: N/A File Name: 18056.dat	Sample Aliquot: 1000 ml Final Volume: 10 ml Result Units: UG/L Clean DF: 1
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CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
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Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.32		0.5	64	1 - 144
877-09-8	TETRACHLORO-M-XYLENE	0.498		0.5	100	69 - 120

Data Package ID: *PT2102158-1*

Organochlorine Pesticides**Method SW8081B****Matrix Spike And Matrix Spike Duplicate****Lab Name: ALS -- Fort Collins****Work Order Number: 2102158****Client Name: Central Plateau Cleanup Company, LLC****ClientProject ID: RCRA, February 2021 W21-002**

Field ID: B3YWT6

LabID: 2102158-1MS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 09-Feb-21

Date Extracted: 15-Feb-21

Date Analyzed: 18-Feb-21

Prep Method: SW3520 Rev C

Prep Batch: EX210215-1

QCBatchID: EX210215-1-1

Run ID: PT210218-10A

Cleanup: NONE

Basis: As Received

Sample Aliquot: 1080 ml

Final Volume: 10 ml

Result Units: UG/L

File Name: 18058.dat

CASNO	Target Analyte	Sample Result	Samp Qual	MS Result	MS Qual	Reporting Limit	Spike Added	MS % Rec.	Control Limits
319-84-6	ALPHA-BHC	0.0231	U	0.349		0.0463	0.37	94	80 - 122%
58-89-9	GAMMA-BHC (LINDANE)	0.0231	U	0.333		0.0463	0.37	90	80 - 124%
76-44-8	HEPTACHLOR	0.0231	U	0.304		0.0463	0.37	82	75 - 120%
309-00-2	ALDRIN	0.0231	U	0.321		0.0463	0.37	87	80 - 120%
319-85-7	BETA-BHC	0.0231	U	0.323		0.0463	0.37	87	80 - 122%
319-86-8	DELTA-BHC	0.0231	U	0.318		0.0463	0.37	86	78 - 126%
1024-57-3	HEPTACHLOR EPOXIDE	0.0231	U	0.319		0.0463	0.37	86	80 - 123%
959-98-8	ENDOSULFAN I	0.0231	U	0.306		0.0463	0.37	83	64 - 126%
5103-74-2	GAMMA-CHLORDANE	0.0231	U	0.319		0.0463	0.37	86	80 - 124%
5103-71-9	ALPHA-CHLORDANE	0.0231	U	0.318		0.0463	0.37	86	78 - 124%
72-55-9	4,4'-DDE	0.0231	U	0.323		0.0463	0.37	87	80 - 124%
60-57-1	DIELDRIN	0.0231	U	0.33		0.0463	0.37	89	80 - 123%
72-20-8	ENDRIN	0.0231	U	0.3		0.0463	0.37	81	20 - 165%
72-54-8	4,4'-DDD	0.0231	U	0.294		0.0463	0.37	80	80 - 126%
33213-65-9	ENDOSULFAN II	0.0231	U	0.305		0.0463	0.37	82	66 - 132%
50-29-3	4,4'-DDT	0.0231	U	0.285		0.0463	0.37	77	67 - 149%
7421-93-4	ENDRIN ALDEHYDE	0.0231	U	0.32		0.0463	0.37	86	67 - 149%
72-43-5	METHOXYCHLOR	0.0694	U	0.31		0.231	0.37	84	68 - 152%
1031-07-8	ENDOSULFAN SULFATE	0.0231	U	0.306		0.0463	0.37	83	74 - 130%
53494-70-5	ENDRIN KETONE	0.0231	U	0.307		0.0463	0.37	83	73 - 139%

Data Package ID: PT2102158-1

Organochlorine Pesticides**Method SW8081B****Matrix Spike And Matrix Spike Duplicate****Lab Name: ALS -- Fort Collins****Work Order Number: 2102158****Client Name: Central Plateau Cleanup Company, LLC****ClientProject ID: RCRA, February 2021 W21-002**

Field ID: B3YWT6

LabID: 2102158-1MSD

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 09-Feb-21

Date Extracted: 15-Feb-21

Date Analyzed: 18-Feb-21

Prep Method: SW3520 Rev C

Prep Batch: EX210215-1

QCBatchID: EX210215-1-1

Run ID: PT210218-10A

Cleanup: NONE

Basis: As Received

Sample Aliquot: 1080 ml

Final Volume: 10 ml

Result Units: UG/L

File Name: 18059.dat

CASNO	Target Analyte	MSD Result	MSD Qual	Spike Added	MSD % Rec.	Reporting Limit	RPD Limit	RPD
319-84-6	ALPHA-BHC	0.368		0.37	99	0.0463	30	5
58-89-9	GAMMA-BHC (LINDANE)	0.357		0.37	96	0.0463	30	7
76-44-8	HEPTACHLOR	0.33		0.37	89	0.0463	30	8
309-00-2	ALDRIN	0.334		0.37	90	0.0463	30	4
319-85-7	BETA-BHC	0.343		0.37	93	0.0463	30	6
319-86-8	DELTA-BHC	0.339		0.37	92	0.0463	30	7
1024-57-3	HEPTACHLOR EPOXIDE	0.338		0.37	91	0.0463	30	6
959-98-8	ENDOSULFAN I	0.328		0.37	89	0.0463	30	7
5103-74-2	GAMMA-CHLORDANE	0.336		0.37	91	0.0463	30	5
5103-71-9	ALPHA-CHLORDANE	0.335		0.37	91	0.0463	30	5
72-55-9	4,4'-DDE	0.334		0.37	90	0.0463	30	3
60-57-1	DIELDRIN	0.347		0.37	94	0.0463	30	5
72-20-8	ENDRIN	0.326		0.37	88	0.0463	30	8
72-54-8	4,4'-DDD	0.31		0.37	84	0.0463	30	5
33213-65-9	ENDOSULFAN II	0.32		0.37	86	0.0463	30	5
50-29-3	4,4'-DDT	0.304		0.37	82	0.0463	30	6
7421-93-4	ENDRIN ALDEHYDE	0.344		0.37	93	0.0463	30	7
72-43-5	METHOXYCHLOR	0.334		0.37	90	0.231	30	7
1031-07-8	ENDOSULFAN SULFATE	0.328		0.37	89	0.0463	30	7
53494-70-5	ENDRIN KETONE	0.325		0.37	88	0.0463	30	6

Data Package ID: PT2102158-1

Organochlorine Pesticides

Method SW8081B**Matrix Spike And Matrix Spike Duplicate****Lab Name:** ALS -- Fort Collins**Work Order Number:** 2102158**Client Name:** Central Plateau Cleanup Company, LLC**ClientProject ID:** RCRA, February 2021 W21-002

Surrogate Recovery MS/MSD

CASNO	Target Analyte	Spike Added	MS % Rec.	MS Flag	MSD % Rec.	MSD Flag	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.463	52		56		1 - 144
877-09-8	TETRACHLORO-M-XYLENE	0.463	91		96		69 - 120

Data Package ID: *PT2102158-1*

Prep Batch ID: EX210215-1

Start Date: 02/15/21	End Date: 02/16/21	Concentration Method: CKIS	Batch Created By: cpc
Start Time: 14:00	End Time: 9:00	Extract Method: SW3520C	Date Created: 02/15/21
Prep Analyst: Chris P. Casillas		Initial Volume Units: ml	Time Created: 13:47
Comments:		Final Volume Units: ml	Validated By: cpc
			Date Validated: 02/17/21
			Time Validated: 13:01

QC Batch ID: EX210215-1-1

Lab ID	QC Type	Field ID	Matrix	Date Collected	Initial Wt/Vol	Final Wt/Vol	Cleanup Method	Cleanup DF	Order Number
EX210215-1A	MB	XXXXXX	WATER	XXXXXX	1000	10	NONE	1	2102158
EX210215-1A	LCS	XXXXXX	WATER	XXXXXX	1000	10	NONE	1	2102158
2102158-1	MS	B3YWT6	WATER	2/9/2021	1080	10	NONE	1	2102158
2102158-1	MSD	B3YWT6	WATER	2/9/2021	1080	10	NONE	1	2102158
2102129-1	SMP	XXXXXX	WATER	XXXXXX	1080	10	NONE	1	2102129
2102129-2	SMP	XXXXXX	WATER	XXXXXX	1060	10	NONE	1	2102129
2102129-3	SMP	XXXXXX	WATER	XXXXXX	1060	10	NONE	1	2102129
2102129-4	SMP	XXXXXX	WATER	XXXXXX	1080	10	NONE	1	2102129
2102158-1	SMP	B3YWT6	WATER	2/9/2021	1080	10	NONE	1	2102158
2102158-2	SMP	B3YWT7	WATER	2/9/2021	1080	10	NONE	1	2102158
2102193-1	SMP	XXXXXX	WATER	XXXXXX	1080	10	NONE	1	2102193

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 Duplicate	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