Page 1 of 104

Incident ID	NRM2008733329
District RP	
Facility ID	
Application ID	

### Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

☐ A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and replacement human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
Printed Name: Dale Woodall	Title: Env. Professional
Signature: Dals Woodall	Date: <u>11/17/2022</u>
email:dale.woodall@dvn.com	Telephone:575-748-1838
OCD Only	
Received by: OCD	Date: 11/17/2022
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by: Ashley Maxwell	Date: 2/08/2023
Printed Name: Ashley Maxwell	Title: Environmental Specialist

## Devon Energy Production Company Cotton Draw Unit 181 SWD

Closure Report UL H, Section 36, T24S, R31E Eddy County, New Mexico

> NAB1530234949 NAB1626756642 NOY1701331626 NAB1726355760 NRM2003439614 NRM2008733329

**December 19, 2021** 



#### Prepared for:

Devon Energy Production Company 6488 Seven Rivers Hwy Artesia, New Mexico 88211

By:

Safety & Environmental Solutions, Inc. 703 East Clinton Street Hobbs, New Mexico 88240

#### **Company Contacts**

Representative	Company	Telephone	E-mail
Wesley Mathews	Devon Energy	575-578-6195	Wesley.Mathews@dvn.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

#### **Background**

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Devon Energy to perform a site assessment at the CDU 181 SWD concerning multiple historic releases of produced water in and outside of containment. This site is situated in Eddy County, Section 36, Township 24S, and Range 31E.

Releases at this location date back to February of 2015 and span to March of 2020. A total of 6 releases are contained in this report, and as they collectively were released on the site, they are addressed in total in this closure document separately.

SESI personnel performed an assessment of the site in July of 2020 based on generator knowledge of the leak locations. SESI personnel mapped the leak areas and performed delineation.

#### **Surface and Ground Water**

Based on the NMOCD Oil and Gas map included in this report, surface water is not present within 3,000 feet of this release. The New Mexico Office of the State Engineer records indicates the average depth to groundwater for the area to be 315' bgs; however, since no wells less than 25 years old and less than a half mile away are known to be present, SESI will delineate this release to the most stringent criteria established by NMOCD.

## Characterization for NAB1530234949, NAB1626756642, NAB1726355760, NRM2003439614, NRM2008733329

Each of these incident numbers had some amount of release that was outside of containment. Many of them had the potential to impact soil, therefore, due to the historic nature of some of the releases, they were bundled together and approached as one much larger leak area for feasibility. In July of 2020, SESI personnel performed sampling to determine vertical extent of the releases. SESI advanced multiple auger holes within the leak area. The samples were properly packaged and preserved and sent to Hall Laboratories for analysis. The results of the testing are captured in the summary below:

	Devon Energy CDU 181 SWD Soil Sample Results: Hall Environmental Laboratories 7/23/20											
SAMPLE ID	Chloride	GRO	DRO	MRO	Benzene	Toluene	Ethyl benzene	<b>Total Xylenes</b>				
AH-1 H NORTH	200	ND	ND	85	ND	ND	ND	ND				
AH-2 SURFACE	ND	ND	ND	ND	ND	ND	ND	ND				
AH-3 H WEST	340	ND	2600	2500	ND	ND	ND	ND				
AH-4 SURFACE	ND	ND	ND	ND	ND	ND	ND	ND				
AH-5 SURFACE	68	ND	ND	ND	ND	ND	ND	ND				
AH-6 H SOUTH	67	ND	ND	ND	ND	ND	ND	ND				
AH-7 SURFACE	310	ND	ND	ND	ND	ND	ND	ND				
AH-8 H SOUTH	ND	ND	ND	ND	ND	ND	ND	ND				
AH-9 SURFACE	ND	ND	ND	ND	ND	ND	ND	ND				
AH-10 H SE	ND	ND	ND	ND	ND	ND	ND	ND				
AH-11 SURFACE	ND	ND	ND	ND	ND	ND	ND	ND				
AH-12 SURFACE	230	ND	ND	ND	ND	ND	ND	ND				
AH-13 SURFACE	120	ND	ND	ND	ND	ND	ND	ND				
AH-14 SURFACE	ND	ND	ND	ND	ND	ND	ND	ND				
AH-15 SURFACE	67	ND	ND	ND	ND	ND	ND	ND				
AH-16 SURFACE	200	ND	ND	ND	ND	ND	ND	ND				
AH-17 SURFACE	200	ND	ND	ND	ND	ND	ND	ND				
AH-18 H EAST	ND	ND	ND	ND	ND	ND	ND	ND				
AH-19 SURFACE	ND	ND	ND	ND	ND	ND	ND	ND				
AH-22 SURFACE	ND	ND	ND	ND	ND	ND	ND	ND				
AH-21 SURFACE	81	ND	ND	ND	ND	ND	ND	ND				
AH-24 SURFACE	430	ND	ND	ND	ND	ND	ND	ND				
AH-24 @ 1'	79	ND	ND	ND	ND	ND	ND	ND				
AH-23 H EAST	180	ND	ND	ND	ND	ND	ND	ND				
AH-25 H NE	220	ND	ND	ND	ND	ND	ND	ND				
AH-26 SURFACE	220	ND	ND	ND	ND	ND	ND	ND				
AH-27 SURFACE	ND	ND	ND	ND	ND	ND	ND	ND				
AH-28 SURFACE	ND	ND	ND	ND	ND	ND	ND	ND				
AH-29 H NORTH	ND	ND	ND	ND	ND	ND	ND	ND				
AH-30 SURFACE	ND	ND	ND	ND	ND	ND	ND	ND				
AH-31 SURFACE	ND	ND	ND	ND	ND	ND	ND	ND				
AH-32 SURFACE	290	ND	ND	ND	ND	ND	ND	ND				
AH-33 SURFACE	ND	ND	ND	ND	ND	ND	ND	ND				

Further investigation was needed at the AH-1 H North sample point and the AH-3 H West sample point. Auger was advanced to 1' and resampled, the results are presented below.

Devon Energy CDU 181 SWD										
Soil Sample Results: Hall Environmental Laboratories 9/15/20										
SAMPLE ID Chloride GRO DRO MRO Benzene Toluene Ethyl benzene Total Xylene								Total Xylenes		
AH-1 H NORTH	ND	ND	ND	ND	ND	ND	ND	ND		
AH-3 @ 1'	H-3 @ 1' 130 ND ND ND				ND	ND	ND	ND		

#### Remediation

Based on the results of the delineation, SESI, determined the best course of action is to excavate the contaminated soil to a depth of 1ft as practicable. The areas with appreciable DRO and MRO contamination were marked for excavation. In January of 2021, approximately 60 yrds of contaminated material was removed via shovel or backhoe. Confirmation and horizontal samples were taken to ensure remediation was successful and that the horizontal extent of the release area had been established. The samples were properly preserved and packaged then sent to Hall Laboratories for analysis. The results of the sampling is captured in the table below.

Devon Energy CDU 181 SWD Soil Sample Results: Hall Environmental Laboratories 1/25/21										
SAMPLE ID	Chloride	GRO	DRO	MRO	Benzene	Toluene	Ethyl benzene	Total Xylenes		
SP-1 BTM @ 1'	120	ND	ND	ND	ND	ND	ND	ND		
SP-2 BTM @ 1'	ND	ND	ND	ND	ND	ND	ND	ND		
SP-3 BTM @ 1'	ND	ND	ND	ND	ND	ND	ND	ND		
SP-4 BTM @ 1'	ND	ND	ND	ND	ND	ND	ND	ND		
SP-5 N WALL	ND	ND	14	ND	ND	ND	ND	ND		
SP-6 W WALL	ND	ND	ND	ND	ND	ND	ND	ND		
SP-7 E WALL	ND	ND	ND	ND	ND	ND	ND	ND		
SP-8 N WALL	ND	ND	ND	ND	ND	ND	ND	ND		

Once sample results verified both successful remediation and horizontal extent, the site was backfilled with clean soil. Pictures of the remediation are included in this report.

#### NOY1701331626

This release was completely contained inside of the SPCC. An initial 45 bbls of produced water was released, and a vacuum truck recovered all 45 bbls from the lined containment area. A visual liner inspection was subsequently performed with no deficiencies. No further remedial actions were needed, and this report shall serve as a closure request for this incident number as well.

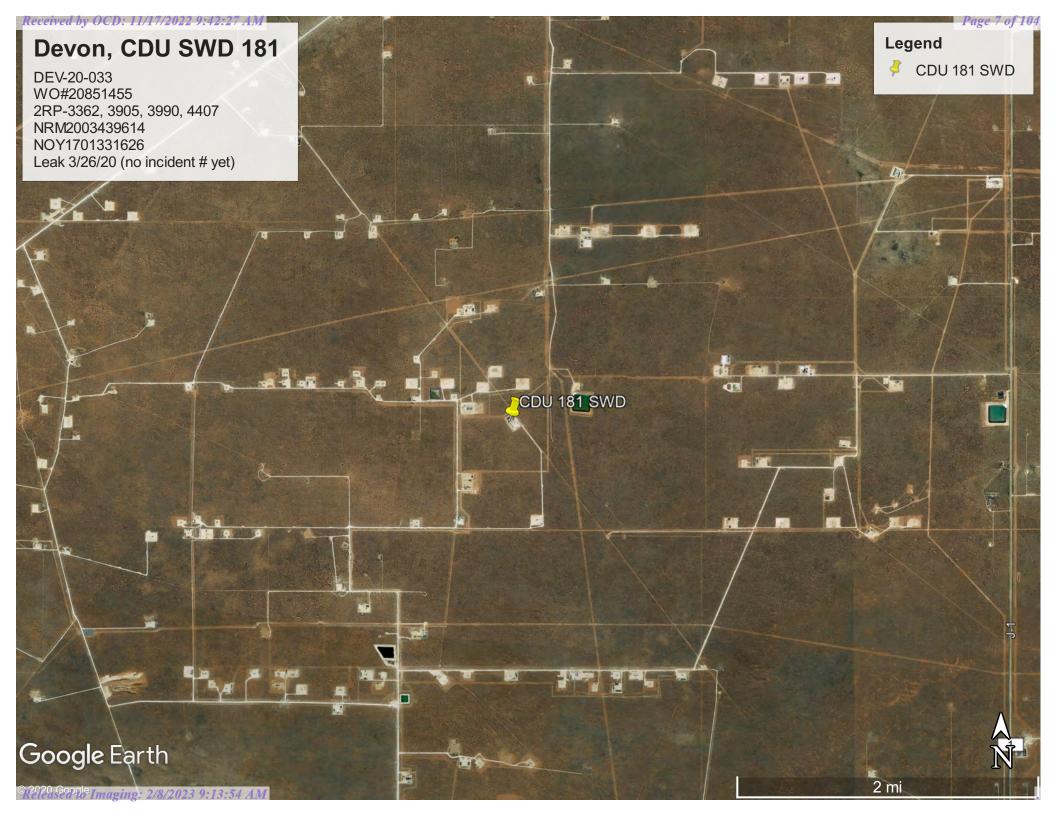
#### **Closure Request**

Based on the confirmation and horizontal sample results, SESI believes the release area to be properly remediated according to the closure criteria set forth in Table I of the Spill Rule 19.15.29 NMAC. Therefore, SESI, on behalf of Devon respectfully requests closure of the following releases.

NAB1530234949 NAB1626756642 NOY1701331626 NAB1726355760 NRM2003439614 NRM2008733329 Supplemental information has been included in this report to support our closure request.

#### **Supplemental Documentation for Closure**

Map of Release with sample locations Photos of release and remediation NMOCD Oil and Gas Map BLM Cave Karst Map Laboratory Analysis C-141,





## **OSE PUBLIC PRINT**



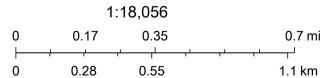
8/27/2021, 9:50:24 AM

OSE District Boundary

New Mexico State Trust Lands

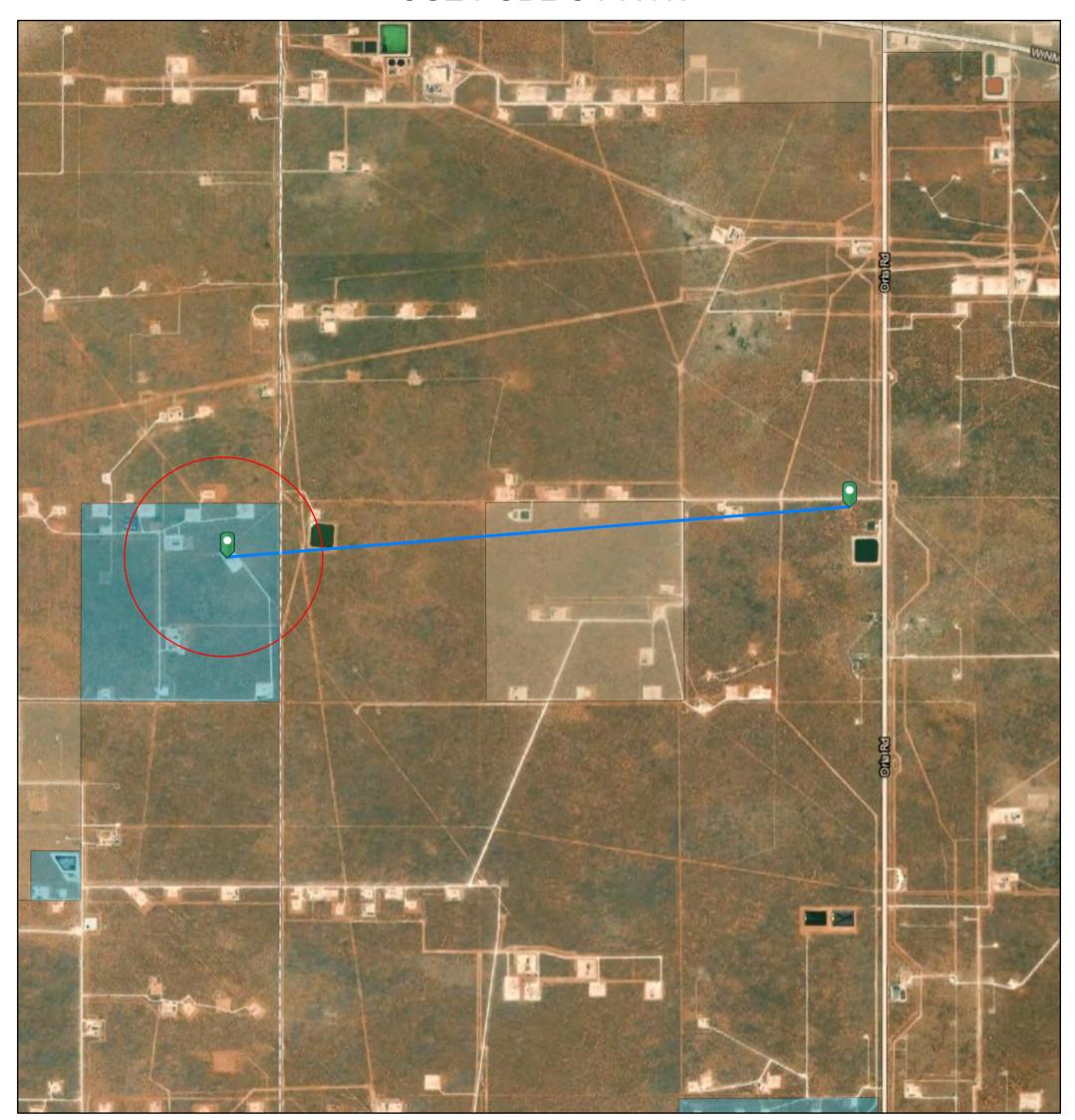
Subsurface Estate

Both Estates
SiteBoundaries



Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar

# OSE PUBLIC PRINT



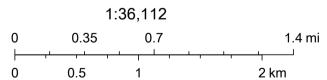
8/27/2021. 10:05:01 AM

OSE District Boundary

New Mexico State Trust Lands

Subsurface Estate

**Both Estates** 



Esri, HERE, Garmin, Esri, HERE, U.S. Department of Energy Office of Legacy Management, Maxar

PAGE 1 OF 2

WELL TAG ID NO.

OSE OTI JUL 9 2021 PM 1:52



## WELL RECORD & LOG

#### OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

6SE 00 JUN 21 2021 M10:14

	1912								
NO	OSE POD NO	WELL NO		WELL TAG ID NO. 20E37		OSE FILE NOC C-4536	s).		
ОСАТІ	WELL OWN BASIN PR		ES RANCHES LLC			PHONE (OPTI	ONAL)		
WELL I	WELL OWN 3300 N A		ADDRESS BLDG 1, STE 220			CITY MIDLAND		STATE TX	ZIP 79705
GENERAL AND WELL LOCATION	WELL LOCATIO	274	DE FITUDE	32 10 5	ONDS 50.8 N		REQUIRED: ONE TEN	TH OF A SECOND	
1. GENE	DESCRIPTION		NGITUDE IG WELL LOCATION TO	STREET ADDRESS AND COMMON LAND		S (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVAILABLE	
	LICENSE NO		NAME OF LICENSED	DRILLER Bryce Wallace			NAME OF WELL DRI	LLING COMPANY  Orillers Corporation	
	DRILLING S 06/0		DRILLING ENDED 06/10/21	DEPTH OF COMPLETED WELL (FT) 500		LE DEPTH (FT) 500	DEPTH WATER FIRS	ST ENCOUNTERED (FT 314	)
NC	COMPLETE	D WELL IS:	ARTESIAN	DRY HOLE SHALLOW (UNC	CONFINED)		STATIC WATER LEV	EL IN COMPLETED W. 314	ELL (FT)
ATIC	DRILLING F	LUID:	AIR	MUD ADDITIVES - SP	ECIFY:				
RM	DRILLING N	ÆTHOD:	ROTARY	HAMMER CABLE TOOL	□ отне	R – SPECIFY:			
& CASING INFORMATION	DEPTH FROM	(feet bgl)	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CON	ASING NECTION TYPE ling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
K C	0	20	12 3/4	STEEL	<del></del>	N/A	8.28	.337	
	0	300	7 7/8	SDR17 PVC	SI	PLINE	4.3	SDR17	
רנו	300	500	7 7/8	SDR17 PVC	SI	PLINE	4.3	SDR17	.032
2. DRILLING									
7									1
						. ,			
									-
			· · · · · · · · · · · · · · · · · · ·						
									<del> </del>
	DEPTH FROM	(feet bgl)	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL M GRAVEL PACK SIZE-RANG			AMOUNT (cubic feet)	METHO PLACE	
ERI/	0	20	12 3/4	CEMENT		<del></del>	10	TOP	FILL
[AT]	0	20	7 7/8	CEMENT		· · · · ·	6	TOP	
R M	300	500	7 7/8	8/16 SILICA S.	AND		46	TOP	FILL
ULA					****				• • • • • • • • • • • • • • • • • • • •
ANNULAR MATERIAL									
3.									
FOR	OSE INTER	NAL USE	7 305 4	I DODAYO		WR-2	0 WELL RECORD &		30/17)

## OSE DII JUL 9 2021 PM1:53

05E DII JUN 21 2021 PM10:14

	DEPTH (	feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONE (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	3	3	RED SAND	Y ✓N	
	3	12	9	CALICHE	Y √N	
	12	180	168	RED CLAY	Y ✓N	
	180	235	415	TAN SANDSTONE	Y ✓N	
	235	480	245	TAN SANDSTONE & CLAY STRINGERS	✓ Y N	4.00
17	480	500	20	RED CLAY WITH SAND STRINGERS	Y √N	
WE					Y N	
0					Y N	
8					Y N	
JIC.					Y N	
ĽŎ					Y N	
GEO					Y N	
4. HYDROGEOLOGIC LOG OF WELL					Y N	
HXI					Y N	
4					Y N	
					Y N	
					Y N	
	<u>-</u> .				Y N	
					Y N	
					Y N	
					Y N	
	METHOD U			OF WATER-BEARING STRATA:  BAILER OTHER - SPECIFY:	TOTAL ESTIMATED WELL YIELD (gpm):	4.00
	WELL TES	TEST	RESULTS - ATTA	.CH A COPY OF DATA COLLECTED DURING WELL TESTING, INC		
VISION		STAR	T TIME, END TIM	IE, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OV	ER THE TESTING PERIO	)D.
TEST; RIG SUPERVI	MISCELLA	NEOUS INI	FORMATION:			
5. TES	PRINT NAM	IE(S) OF D	RILL RIG SUPERV	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CON	STRUCTION OTHER TH	IAN LICENSEE
SIGNATURE	CORRECT I	RECORD O	F THE ABOVE DE	ES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELI SSCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL R DAYS AFTER COMPLETION OF WELL DRILLING:	EF, THE FOREGOING IS ECORD WITH THE STA	A TRUE AND TE ENGINEER
6. SIGN	12	· W		Bryce Wallace	06/16/2021	
		SIGNAT	URE OF DRILLER	/ PRINT SIGNEE NAME	DATE	
FOR	OSE INTERI	NAL USE		WR-20 WE	LL RECORD & LOG (Ve	rsion 06/30/2017
	ENO.C-	1536	120-1-	POD NO. TRN NO.	195378	
	CATION <	سين	21/22	.33.12 \ WELL TAG ID NO.	027	PAGE 2 OF



Southeast corner facing North inside



Location sign facing West Released to Imaging: 2/8/2023 9:13:54 AM



Southeast corner facing West inside



Southeast corner facing North inside



East side facing West inside



Southeast corner facing West outside



East side facing West inside



East side facing West inside



East side facing West inside



East side facing West inside



Northeast corner facing South inside



East side facing west inside



Northeast corner facing West inside



Northeast corner facing South outside



North side facing South inside



Northeast corner facing West inside



North side facing South inside



North side facing South inside



Northeast corner facing East , Sump with water



North side facing South inside



Northeast corner facing South outside



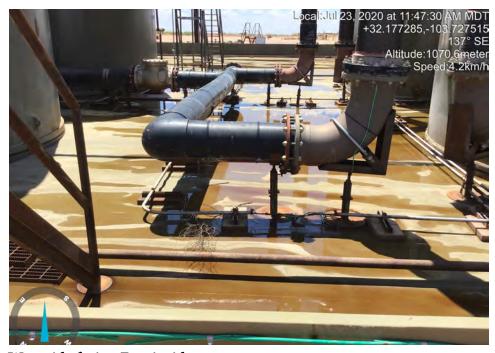
Northwest corner facing South inside



West side facing East inside



West side facing East inside



West side facing East inside



West side facing East inside



Southwest corner facing North inside



West side facing East inside



Southwest corner facing East inside



Southwest corner facing North outside



Southeast corner sump facing East (water)



Southwest corner facing east outside



West side inside (pump#1), patch unglued



East side, inside pump#3, liner patch unglued



**Inside center facing Southwest** 



**Inside center facing Northeast** 



East side, outside of liner (oil dump)



East side, outside of liner, oil stain (not liner leak), oil dump



Inside facing Southwest (chemical and water mix)



East side, outside of liner (oil dump)

Released to Imaging: 2/8/2023 9:13:54 AM

# Devon Energy – Cotton Draw Unit 181 SWD Excavation & Remediation









# Devon Energy – Cotton Draw Unit 181 SWD Excavation & Remediation









# Devon Energy – Cotton Draw Unit 181 SWD Excavation & Remediation











Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

February 01, 2021

Bob Allen Safety & Environmental Solutions PO Box 1613 Hobbs, NM 88241

TEL: (575) 397-0510 FAX: (575) 393-4388

RE: Coftton Draw 181 SWD OrderNo.: 2101967

#### Dear Bob Allen:

Hall Environmental Analysis Laboratory received 8 sample(s) on 1/27/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 2101967 Date Reported: 2/1/2021

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SP-1 1ft Bottom

**CLIENT:** Safety & Environmental Solutions **Project:** Coftton Draw 181 SWD Collection Date: 1/25/2021 10:15:00 AM

2101967-001 Lab ID: Matrix: SOIL **Received Date:** 1/27/2021 7:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	120	60	mg/Kg	20	1/29/2021 7:12:25 PM	57808
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	1/28/2021 10:46:12 AM	57769
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/28/2021 10:46:12 AM	57769
Surr: DNOP	127	30.4-154	%Rec	1	1/28/2021 10:46:12 AM	57769
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/29/2021 1:15:18 PM	57765
Surr: BFB	96.2	75.3-105	%Rec	1	1/29/2021 1:15:18 PM	57765
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	1/29/2021 1:15:18 PM	57765
Toluene	ND	0.047	mg/Kg	1	1/29/2021 1:15:18 PM	57765
Ethylbenzene	ND	0.047	mg/Kg	1	1/29/2021 1:15:18 PM	57765
Xylenes, Total	ND	0.094	mg/Kg	1	1/29/2021 1:15:18 PM	57765
Surr: 4-Bromofluorobenzene	99.2	80-120	%Rec	1	1/29/2021 1:15:18 PM	57765

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

Page 1 of 12

Lab Order **2101967**Date Reported: **2/1/2021** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-2 1ft Bottom

 Project:
 Coftton Draw 181 SWD
 Collection Date: 1/25/2021 10:30:00 AM

 Lab ID:
 2101967-002
 Matrix: SOIL
 Received Date: 1/27/2021 7:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	1/29/2021 8:14:27 PM	57808
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	1/28/2021 11:57:29 AM	57769
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/28/2021 11:57:29 AM	57769
Surr: DNOP	142	30.4-154	%Rec	1	1/28/2021 11:57:29 AM	57769
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/29/2021 2:26:12 PM	57765
Surr: BFB	97.4	75.3-105	%Rec	1	1/29/2021 2:26:12 PM	57765
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	1/29/2021 2:26:12 PM	57765
Toluene	ND	0.048	mg/Kg	1	1/29/2021 2:26:12 PM	57765
Ethylbenzene	ND	0.048	mg/Kg	1	1/29/2021 2:26:12 PM	57765
Xylenes, Total	ND	0.096	mg/Kg	1	1/29/2021 2:26:12 PM	57765
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	1/29/2021 2:26:12 PM	57765

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 12

Lab Order **2101967** 

Date Reported: 2/1/2021

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-3 1ft Bottom

 Project:
 Coftton Draw 181 SWD
 Collection Date: 1/25/2021 11:20:00 AM

 Lab ID:
 2101967-003
 Matrix: SOIL
 Received Date: 1/27/2021 7:35:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 59 mg/Kg 20 1/29/2021 8:51:39 PM 57808 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: mb Diesel Range Organics (DRO) ND 9.5 mg/Kg 1/28/2021 12:21:18 PM 57769 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 1/28/2021 12:21:18 PM 57769 Surr: DNOP 1/28/2021 12:21:18 PM 57769 144 30.4-154 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA 1/29/2021 3:37:29 PM Gasoline Range Organics (GRO) ND 57765 4.7 mg/Kg Surr: BFB 97.3 %Rec 1/29/2021 3:37:29 PM 75.3-105 **EPA METHOD 8021B: VOLATILES** Analyst: RAA ND 1/29/2021 3:37:29 PM 57765 Benzene 0.023 mg/Kg Toluene ND 0.047 mg/Kg 1/29/2021 3:37:29 PM 57765 Ethylbenzene ND 0.047 mg/Kg 1 1/29/2021 3:37:29 PM 57765 Xylenes, Total ND 0.094 mg/Kg 1/29/2021 3:37:29 PM 57765 Surr: 4-Bromofluorobenzene 99.5 80-120 %Rec 1/29/2021 3:37:29 PM 57765

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**CLIENT:** Safety & Environmental Solutions

#### **Analytical Report**

Lab Order **2101967**Date Reported: **2/1/2021** 

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SP-4 1ft Bottom

**Project:** Coftton Draw 181 SWD Collection Date: 1/25/2021 1:40:00 PM

**Lab ID:** 2101967-004 **Matrix:** SOIL **Received Date:** 1/27/2021 7:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	59	mg/Kg	20	1/29/2021 9:04:04 PM	57808
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	1/28/2021 12:45:06 PM	57769
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/28/2021 12:45:06 PM	57769
Surr: DNOP	145	30.4-154	%Rec	1	1/28/2021 12:45:06 PM	57769
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/29/2021 4:01:18 PM	57765
Surr: BFB	100	75.3-105	%Rec	1	1/29/2021 4:01:18 PM	57765
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	1/29/2021 4:01:18 PM	57765
Toluene	ND	0.050	mg/Kg	1	1/29/2021 4:01:18 PM	57765
Ethylbenzene	ND	0.050	mg/Kg	1	1/29/2021 4:01:18 PM	57765
Xylenes, Total	ND	0.10	mg/Kg	1	1/29/2021 4:01:18 PM	57765
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	1/29/2021 4:01:18 PM	57765

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2101967**Date Reported: **2/1/2021** 

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-5 North Wall

 Project:
 Coffton Draw 181 SWD
 Collection Date: 1/25/2021 1:15:00 PM

 Lab ID:
 2101967-005
 Matrix: SOIL
 Received Date: 1/27/2021 7:35:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 60 mg/Kg 20 1/29/2021 9:16:29 PM 57808 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: mb Diesel Range Organics (DRO) 14 8.5 mg/Kg 1/28/2021 5:23:32 PM 57769 Motor Oil Range Organics (MRO) ND 42 mg/Kg 1 1/28/2021 5:23:32 PM 57769 Surr: DNOP 151 30.4-154 %Rec 1/28/2021 5:23:32 PM 57769 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA 1/29/2021 4:25:09 PM Gasoline Range Organics (GRO) ND 57765 4.6 mg/Kg Surr: BFB 99.6 75.3-105 %Rec 1/29/2021 4:25:09 PM 57765 **EPA METHOD 8021B: VOLATILES** Analyst: RAA ND 1/29/2021 4:25:09 PM 57765 Benzene 0.023 mg/Kg Toluene ND 0.046 mg/Kg 1/29/2021 4:25:09 PM 57765 Ethylbenzene ND 0.046 mg/Kg 1 1/29/2021 4:25:09 PM 57765 Xylenes, Total ND 0.092 mg/Kg 1/29/2021 4:25:09 PM 57765 Surr: 4-Bromofluorobenzene 101 80-120 %Rec 1/29/2021 4:25:09 PM 57765

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2101967** 

Date Reported: 2/1/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-6 West Wall

**Project:** Coftton Draw 181 SWD Collection Date: 1/25/2021 2:05:00 PM

**Lab ID:** 2101967-006 **Matrix:** SOIL **Received Date:** 1/27/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	ND	60		mg/Kg	20	1/29/2021 9:28:54 PM	57808
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: mb
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/28/2021 1:32:50 PM	57769
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/28/2021 1:32:50 PM	57769
Surr: DNOP	159	30.4-154	S	%Rec	1	1/28/2021 1:32:50 PM	57769
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/29/2021 4:49:03 PM	57765
Surr: BFB	97.8	75.3-105		%Rec	1	1/29/2021 4:49:03 PM	57765
EPA METHOD 8021B: VOLATILES						Analyst	: RAA
Benzene	ND	0.024		mg/Kg	1	1/29/2021 4:49:03 PM	57765
Toluene	ND	0.047		mg/Kg	1	1/29/2021 4:49:03 PM	57765
Ethylbenzene	ND	0.047		mg/Kg	1	1/29/2021 4:49:03 PM	57765
Xylenes, Total	ND	0.094		mg/Kg	1	1/29/2021 4:49:03 PM	57765
Surr: 4-Bromofluorobenzene	98.0	80-120		%Rec	1	1/29/2021 4:49:03 PM	57765

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2101967** 

Date Reported: 2/1/2021

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

**Project:** Coftton Draw 181 SWD

**Lab ID:** 2101967-007

Matrix: SOIL

**Collection Date:** 1/25/2021 11:00:00 AM **Received Date:** 1/27/2021 7:35:00 AM

Client Sample ID: SP-7 East Wall

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	1/29/2021 9:41:19 PM	57808
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	1/28/2021 1:56:48 PM	57769
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/28/2021 1:56:48 PM	57769
Surr: DNOP	140	30.4-154	%Rec	1	1/28/2021 1:56:48 PM	57769
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/29/2021 5:12:56 PM	57765
Surr: BFB	99.9	75.3-105	%Rec	1	1/29/2021 5:12:56 PM	57765
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	1/29/2021 5:12:56 PM	57765
Toluene	ND	0.048	mg/Kg	1	1/29/2021 5:12:56 PM	57765
Ethylbenzene	ND	0.048	mg/Kg	1	1/29/2021 5:12:56 PM	57765
Xylenes, Total	ND	0.096	mg/Kg	1	1/29/2021 5:12:56 PM	57765
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	1/29/2021 5:12:56 PM	57765

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2101967** 

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/1/2021

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-8 North Wall

Project: Coftton Draw 181 SWD Collection Date: 1/25/2021 11:55:00 AM

**Lab ID:** 2101967-008 **Matrix:** SOIL **Received Date:** 1/27/2021 7:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	1/29/2021 9:53:43 PM	57808
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	8.5	mg/Kg	1	1/28/2021 2:20:45 PM	57769
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	1/28/2021 2:20:45 PM	57769
Surr: DNOP	147	30.4-154	%Rec	1	1/28/2021 2:20:45 PM	57769
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/29/2021 7:35:47 PM	57765
Surr: BFB	99.7	75.3-105	%Rec	1	1/29/2021 7:35:47 PM	57765
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.023	mg/Kg	1	1/29/2021 7:35:47 PM	57765
Toluene	ND	0.047	mg/Kg	1	1/29/2021 7:35:47 PM	57765
Ethylbenzene	ND	0.047	mg/Kg	1	1/29/2021 7:35:47 PM	57765
Xylenes, Total	ND	0.094	mg/Kg	1	1/29/2021 7:35:47 PM	57765
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	1/29/2021 7:35:47 PM	57765

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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#### **QC SUMMARY REPORT**

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2101967** *01-Feb-21* 

Client: Safety & Environmental Solutions

**Project:** Coftton Draw 181 SWD

Sample ID: MB-57808 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 57808 RunNo: 74942

Prep Date: 1/29/2021 Analysis Date: 1/29/2021 SeqNo: 2645957 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-57808 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 57808 RunNo: 74942

Prep Date: 1/29/2021 Analysis Date: 1/29/2021 SeqNo: 2645958 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 98.7 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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#### **OC SUMMARY REPORT**

#### Hall Environmental Analysis Laboratory, Inc.

2101967 01-Feb-21

WO#:

**Client:** Safety & Environmental Solutions

**Project:** Coftton Draw 181 SWD

Sample ID: MB-57769 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 57769 RunNo: 74917 Prep Date: 1/27/2021 Analysis Date: 1/28/2021 SeqNo: 2644531 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 13 10.00 132 30.4 154

Sample ID: LCS-57769 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 57769 RunNo: 74917 Prep Date: 1/27/2021 Analysis Date: 1/28/2021 SeqNo: 2644533 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 68.9 67 50.00 133 141 Surr: DNOP 6.5 5.000 130 30.4 154

Sample ID: 2101967-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

RunNo: 74917 Client ID: SP-1 1ft Bottom Batch ID: 57769

Prep Date: 1/27/2021 Analysis Date: 1/28/2021 SeqNo: 2644534 Units: mg/Kg

HighLimit Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 58 45.54 0 127 15 184

Surr: DNOP 5.8 4.554 128 30.4 154

Sample ID: 2101967-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: SP-1 1ft Bottom Batch ID: 57769 RunNo: 74917

Prep Date: 1/27/2021 Analysis Date: 1/28/2021 SeqNo: 2644535 Units: mg/Kg

%RPD Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Qual Analyte Diesel Range Organics (DRO) 60 9.0 44.76 0 135 15 184 4.58 23.9 Surr: DNOP 4.476 6.1 136 30.4 154 0 0

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 10 of 12

### Hall Environmental Analysis Laboratory, Inc.

WO#: 2101967 01-Feb-21

**Client:** Safety & Environmental Solutions

**Project:** Coftton Draw 181 SWD

Sample ID: Ics-57765 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 57765 RunNo: 74945

Prep Date: 1/27/2021 Analysis Date: 1/29/2021 SeqNo: 2645737 Units: mq/Kq

SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit Qual Gasoline Range Organics (GRO) 24 5.0 25.00 Λ 97.9 80 120 Surr: BFB 1100 1000 107 75.3 105 S

Sample ID: mb-57765 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 57765 RunNo: 74945 Prep Date: 1/27/2021 Analysis Date: 1/29/2021 SeqNo: 2645738 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 960 1000 95.8 75.3 105

Sample ID: 2101967-002ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: SP-2 1ft Bottom Batch ID: 57765 RunNo: 74945 Prep Date: 1/27/2021 Analysis Date: 1/29/2021 SeqNo: 2646037 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result POI LowLimit HighLimit Qual Gasoline Range Organics (GRO) 25 4.9 24.32 0 105 61.3 114 Surr: BFB S 1100 972.8 111 75.3 105

Sample ID: 2101967-002amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: SP-2 1ft Bottom Batch ID: 57765 RunNo: 74945 Prep Date: 1/27/2021 Analysis Date: 1/29/2021 SeqNo: 2646038 Units: mg/Kg SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Gasoline Range Organics (GRO) 24 4.8 0 101 61.3 4.39 24.08 114 20 Surr: BFB 1000 963.4 109 75.3 105 0 S 0

Sample ID: Ics-57723 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 57723 RunNo: 74945 Prep Date: 1/25/2021 Analysis Date: 1/30/2021 SeqNo: 2646074 Units: %Rec Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: BFB 1100 1000 75.3 S 107 105

Sample ID: mb-57723 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 57723 RunNo: 74945 Prep Date: 1/25/2021 Analysis Date: 1/30/2021 SeqNo: 2646078 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: BFB 950 1000 94.6 75.3 105

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2101967** 

01-Feb-21

Client: Safety & Environmental Solutions

**Project:** Coftton Draw 181 SWD

Sample ID: LCS-57765	SampT	ype: <b>LC</b>	S	TestCode: EPA Method			8021B: Volat	iles		
Client ID: LCSS	Batch	n ID: <b>57</b> 7	765	RunNo: <b>74945</b>						
Prep Date: 1/27/2021	Analysis D	Date: 1/2	29/2021	SeqNo: <b>2645742</b>			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.9	80	120			
Toluene	0.99	0.050	1.000	0	98.8	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID: <b>mb-57765</b>	SampT	ype: <b>ME</b>	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch	n ID: <b>57</b>	765	F	RunNo: <b>74945</b>					
Prep Date: 1/27/2021	Analysis D	Date: 1/	29/2021	SeqNo: <b>2645743</b>			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.2	80	120			

Sample ID: 2101967-001ams	SampT	уре: <b>М</b> S	3	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: SP-1 1ft Bottom	Batch	n ID: <b>57</b> 7	765	F	RunNo: 74	4945				
Prep Date: 1/27/2021	Analysis D	Date: 1/2	29/2021	S	SeqNo: 20	646088	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.024	0.9597	0	96.4	76.3	120			
Toluene	0.95	0.048	0.9597	0	98.7	78.5	120			
Ethylbenzene	0.96	0.048	0.9597	0	99.8	78.1	124			
Xylenes, Total	2.9	0.096	2.879	0	99.4	79.3	125			
Surr: 4-Bromofluorobenzene	0.98		0.9597		102	80	120			

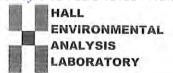
Sample ID: 2101967-001amsd	SampT	SampType: MSD TestCode: EPA Method 8021B: Volatiles								
Client ID: SP-1 1ft Bottom	Batch	n ID: <b>57</b> 7	765	4945						
Prep Date: 1/27/2021	Analysis D	ate: 1/2	29/2021	S	SeqNo: 20	646089	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9756	0	93.0	76.3	120	1.99	20	
Toluene	0.93	0.049	0.9756	0	95.0	78.5	120	2.20	20	
Ethylbenzene	0.92	0.049	0.9756	0	94.5	78.1	124	3.78	20	
Xylenes, Total	2.8	0.098	2.927	0	94.7	79.3	125	3.19	20	
Surr: 4-Bromofluorobenzene	1.0		0.9756		102	80	120	0	0	

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

# Sample Log-In Check List

Client Name: Safety & Environmental S	Work Order Num	ber: 210	1967		RcptNo: 1
Received By: Isaiah Ortiz	1/27/2021 7:35:00	AM		I.	.04
Completed By: Isaiah Ortiz	1/27/2021 8:41:10	AM		<b>I</b>	04
Reviewed By: JR 127/21					200
Chain of Custody					
1. Is Chain of Custody complete?		Yes	~	No [	Not Present
2. How was the sample delivered?		Cou	rier		
Log In					
3. Was an attempt made to cool the samples?		Yes	<b>V</b>	No [	□ NA □
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes	<b>v</b>	No [	NA 🗆
5. Sample(s) in proper container(s)?		Yes	<b>✓</b>	No [	
6. Sufficient sample volume for indicated test(s)	?	Yes	~	No [	1'
7. Are samples (except VOA and ONG) properly		Yes	~	No [	
8. Was preservative added to bottles?		Yes		No 🗹	NA □
9. Received at least 1 vial with headspace <1/4	for AQ VOA?	Yes		No [	NA ☑
10. Were any sample containers received broker	n?	Yes		No N	
14				-	# of preserved bottles checked
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	<b>V</b>	No L	for pH: (<2 or >12 unless noted
2. Are matrices correctly identified on Chain of 0	Custody?	Yes	~	No 🗆	Adjusted?
3. Is it clear what analyses were requested?		Yes	V	No 🗆	
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes	<b>V</b>	No [	Checked by: SGC ( 27)
Special Handling (if applicable)					
15. Was client notified of all discrepancies with t	his order?	Yes		No [	NA ✓
Person Notified:	Date		-		
By Whom:	Via:	eM	ail 🗍	Phone F	ax In Person
Regarding:					
Client Instructions:					
16. Additional remarks:					
	eal Intact Seal No Present	Seal D	ate	Signed By	

Ceived by OCD: 11/17/2022	:42:27 AM	Page 40	of
IALL ENVIRONMENTAI NALYSIS LABORATOR www.hallenvironmental.com ins NE - Albuquerque, NM 87109 45-3975 Fax 505-345-4107 Analysis Request	Total Coliform (Present/Absent)		
NVIR SIS L vironment buquerqu Fax 505-	(AOV) 09S8 (AOV-im92) 07S8		
	CI, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>		
HALL ANAL www.hall kins NE - 845-3975	SCRA 8 Metals		
HALL ANAL www.ha Hawkins NE 505-345-3975	EDB (Method 504.1) PAHs by 8310 or 8270SIMS		
	8081 Pesticides/8082 PCB's		
4901 Tel.	(ORN \ ORO \ DRO \ MRO)	Semarks:	
	STEX / MTBE / TMB's (8021)		
nd Time: Source Source Fush ISI Suns	Project Manager:    Manager:   Paragraph   Paragraph   Project Manager:   Preservative   Preserv	Via: Date Time	Now. 1971 1125
Turn-Around Time:  Standard Project Name:  Coffin Arcu	Sampler:  Sampler:  On Ice:  # of Coolers:  Cooler Temp(includ Type and # Type	Received by:	-1-
Chain-of-Custody Record Client: Soft + En Monmonth Soft + En Monmonth Mailing Address: 703 & Clurton Ktobbs N M 88246 Phone #: 575-397-0510	email or Fax#:  QA/QC Package:  © Standard	126 5 5P-1 F-134 for 126 5 5P-1 F-134 for 136 5 5P-2 F-1 F-134 for 136 5 5P-3 F-1 F-134 for 136 f	200
Change History Change Change Change History Change	©A/QC Packag  ØA/QC Packag  Ø Standard  Accreditation:  □ NELAC  □ EDD (Type	Date:	12/92/



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

September 25, 2020

Bob Allen Safety & Environmental Solutions PO Box 1613 Hobbs, NM 88241

TEL: (575) 397-0510 FAX (575) 393-4388

RE: Devon Cotton Draw 181 SWD OrderNo.: 2009B07

#### Dear Bob Allen:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/18/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Surr: 4-Bromofluorobenzene

# Analytical Report Lab Order 2009B07

Client Sample ID: AH-3 1ft

%Rec

Date Reported: 9/25/2020

9/23/2020 4:01:24 AM

55300

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

 Project:
 Devon Cotton Draw 181 SWD
 Collection Date: 9/15/2020 9:55:00 AM

 Lab ID:
 2009B07-001
 Matrix: SOIL
 Received Date: 9/18/2020 8:00:00 AM

Result **RL Oual Units DF** Date Analyzed Analyses **Batch EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 130 60 mg/Kg 20 9/25/2020 2:34:41 AM 55435 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 9.5 mg/Kg 9/22/2020 6:20:39 PM 55318 Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 9/22/2020 6:20:39 PM 55318 Surr: DNOP 55318 144 30.4-154 %Rec 1 9/22/2020 6:20:39 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 9/23/2020 4:01:24 AM 55300 4.8 mg/Kg 1 Surr: BFB 89.4 75.3-105 %Rec 9/23/2020 4:01:24 AM 55300 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 9/23/2020 4:01:24 AM Benzene 0.024 mg/Kg 55300 1 Toluene ND 0.048 mg/Kg 9/23/2020 4:01:24 AM 55300 Ethylbenzene ND 0.048 mg/Kg 1 9/23/2020 4:01:24 AM 55300 Xylenes, Total ND 0.096 mg/Kg 9/23/2020 4:01:24 AM 55300

103

80-120

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 6

# Analytical Report Lab Order 2009B07

Date Reported: 9/25/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: H- North

 Project:
 Devon Cotton Draw 181 SWD
 Collection Date: 9/15/2020 11:30:00 AM

 Lab ID:
 2009B07-002
 Matrix: SOIL
 Received Date: 9/18/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	ND	60	mg/Kg	20	9/25/2020 2:47:06 AM	55435
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/22/2020 6:30:42 PM	55318
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/22/2020 6:30:42 PM	55318
Surr: DNOP	126	30.4-154	%Rec	1	9/22/2020 6:30:42 PM	55318
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/23/2020 4:24:48 AM	55300
Surr: BFB	87.4	75.3-105	%Rec	1	9/23/2020 4:24:48 AM	55300
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	9/23/2020 4:24:48 AM	55300
Toluene	ND	0.048	mg/Kg	1	9/23/2020 4:24:48 AM	55300
Ethylbenzene	ND	0.048	mg/Kg	1	9/23/2020 4:24:48 AM	55300
Xylenes, Total	ND	0.097	mg/Kg	1	9/23/2020 4:24:48 AM	55300
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	9/23/2020 4:24:48 AM	55300

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 6

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2009B07 25-Sep-20** 

Client: Safety & Environmental Solutions
Project: Devon Cotton Draw 181 SWD

Sample ID: MB-55435 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 55435 RunNo: 72148

Prep Date: 9/24/2020 Analysis Date: 9/24/2020 SeqNo: 2529091 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-55435 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 55435 RunNo: 72148

Prep Date: 9/24/2020 Analysis Date: 9/24/2020 SeqNo: 2529092 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.4 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 6

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2009B07** 

25-Sep-20

Client: Safety & Environmental Solutions
Project: Devon Cotton Draw 181 SWD

— Devoir C	Cotton Diaw 161 SWD	
Sample ID: LCS-55318	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 55318	RunNo: <b>72063</b>
Prep Date: 9/21/2020	Analysis Date: 9/22/2020	SeqNo: <b>2524682</b> Units: <b>mg/Kg</b>
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	60 10 50.00	0 119 70 130
Surr: DNOP	3.7 5.000	74.6 30.4 154
Sample ID: LCS-55322	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 55322	RunNo: <b>72063</b>
Prep Date: 9/21/2020	Analysis Date: 9/22/2020	SeqNo: <b>2524684</b> Units: <b>%Rec</b>
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.0 5.000	80.5 30.4 154
Sample ID: LCS-55325	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 55325	RunNo: <b>72063</b>
Prep Date: 9/21/2020	Analysis Date: 9/23/2020	SeqNo: <b>2524685</b> Units: <b>%Rec</b>
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.6 5.000	92.7 30.4 154
Sample ID: <b>MB-55318</b>	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 55318	RunNo: <b>72063</b>
Prep Date: 9/21/2020	Analysis Date: 9/22/2020	SeqNo: <b>2524687</b> Units: <b>mg/Kg</b>
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10	
Motor Oil Range Organics (MRO)	ND 50	70.0
Surr: DNOP	7.2 10.00	72.3 30.4 154
Sample ID: <b>MB-55322</b>	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 55322	RunNo: <b>72063</b>
Prep Date: 9/21/2020	Analysis Date: 9/22/2020	SeqNo: <b>2524688</b> Units: <b>%Rec</b>
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	8.6 10.00	86.2 30.4 154
Sample ID: <b>MB-55325</b>	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 55325	RunNo: <b>72063</b>
Prep Date: 9/21/2020	Analysis Date: 9/22/2020	SeqNo: <b>2524689</b> Units: <b>%Rec</b>

#### Qualifiers:

Analyte

Surr: DNOP

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

Result

9.1

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

%REC

90.9

LowLimit

30.4

HighLimit

154

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

SPK value SPK Ref Val

10.00

Page 4 of 6

**RPDLimit** 

Qual

%RPD

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2009B07** 

25-Sep-20

Client: Safety & Environmental Solutions
Project: Devon Cotton Draw 181 SWD

Sample ID: mb-55300 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 55300 RunNo: 72044

Prep Date: 9/21/2020 Analysis Date: 9/23/2020 SeqNo: 2523843 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 850 1000 84.9 75.3 105

Sample ID: Ics-55300 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 55300 RunNo: 72044

960

Prep Date: 9/21/2020 Analysis Date: 9/22/2020 SeqNo: 2523844 Units: mg/Kg

1000

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 23 5.0 25.00 0 90.4 72.5 106

96.0

75.3

105

#### Qualifiers:

Surr: BFB

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 6

### Hall Environmental Analysis Laboratory, Inc.

WO#: 2009B07

25-Sep-20

**Client:** Safety & Environmental Solutions **Project:** Devon Cotton Draw 181 SWD

Sample ID: mb-55300 SampType: MBLK TestCode: EPA Method 8021B: Volatiles PBS Client ID: Batch ID: 55300 RunNo: 72044 Prep Date: 9/21/2020 Analysis Date: 9/23/2020 SeqNo: 2523891 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Benzene ND 0.025 ND 0.050 ND 0.050

Toluene Ethylbenzene Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 1.0 1.000 102 80 120

Sample ID: LCS-55300 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 55300 RunNo: 72044 Prep Date: Analysis Date: 9/22/2020 SeqNo: 2523892 9/21/2020 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.025 1.000 0 89.2 80 120 0.89 Benzene Toluene 0.92 0.050 1.000 0 91.6 80 120 0.050 0 92.8 80 120 Ethylbenzene 0.93 1.000 2.8 0.10 3.000 0 92.9 80 120 Xylenes, Total Surr: 4-Bromofluorobenzene 1.0 1.000 101 80 120

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

# Sample Log-In Check List

Client Name:	Safety & Environmental Solutions	Work Order Num	ber: 200	9B07		RcptNo	: 1
Received By:	Cheyenne Cason	9/18/2020 8:00:00	AM				
Completed By:	Juan Rojas	9/18/2020 10:19:04	4 AM		flans	3	
Reviewed By:	Em 9/18/20	)					
Chain of Cus	tody						
1. Is Chain of Co	ustody complete?		Yes	1	No	Not Present	
2. How was the	sample delivered?		Cou	rier			
Log In							
3. Was an attem	npt made to cool the samples	?	Yes	<b>V</b>	No [	□ NA □	
4. Were all samp	oles received at a temperatur	e of >0° C to 6.0°C	Yes	<b>V</b>	No [	□ NA □	
5. Sample(s) in p	proper container(s)?		Yes	V	No [		
6. Sufficient sam	ple volume for indicated test	(s)?	Yes	<b>V</b>	No [		
7. Are samples (	except VOA and ONG) prope	rly preserved?	Yes	<b>V</b>	No [		
8. Was preserva	tive added to bottles?		Yes		No S	✓ NA □	
9. Received at le	east 1 vial with headspace <1/	4" for AQ VOA?	Yes		No [	□ NA 🗹	
10. Were any san	nple containers received brok	en?	Yes		No B	# of preserved	
Production of the Company of the Com	ork match bottle labels? ancies on chain of custody)		Yes	<b>V</b>	No [	bottles checked for pH:	r >12 unless noted)
12. Are matrices of	correctly identified on Chain o	f Custody?	Yes	~	No [	Adjusted?	
13. Is it clear what	t analyses were requested?		Yes	~	No [		allela
	ng times able to be met? ustomer for authorization.)		Yes	<b>V</b>	No [	Checked by: (	ne 9118/0
	ing (if applicable)						
	tified of all discrepancies with	this order?	Yes		No [	NA 🗸	
Person	Notified:	Date					1
By Who		Via:	□ еМа	ail 🗌	Phone 🗌 F	Fax	
Regardi							
Client Ir	nstructions:						
16. Additional rer	narks:						
17. Cooler Inform							
Cooler No		Seal Intact   Seal No	Seal Da	ate	Signed By	/	
1	5.0 Good						

Received by OCD: 11/17/2022	9:42:27 AM	Page 49 of 104
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	### BO81 Pesticides/8082 PCB's  ### BO81 Pesticides/8082 PCB's  ### BO81 Pesticides/8082 PCB's  ### PAHs by 8310 or 8270SIMS  ### RCRA 8 Metals  ### CI, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> ### B270 (Semi-VOA)  ### Total Coliform (Present/Absent)  #### Total Coliform (Present/Absent)	(S:   Bill for Dental Any sub-contracted data will be clearly notated on the analytical report.
4 ,	(\$021) ATBE \ TMB's (\$021) (OMN \ OMO \ OM	Remarks
Turn-Around Time: 5 Day  B-Standard   Rush Project Name: Devoy  (UTTEL Order / 8/ Swb) Project #:	Project Manager:  Sampler: So So Munder  On Ice:	Time: Relinquished by: Received by: Via: Date Time Remarks:  Received by: Via: Date Time Remarks:    MMMMMMM   Min   Min
Chain-of-Custody Record Client: Select to Wheneur & Solvetine & Mailing Address: 703 C- Churten Mailing Address: 703 C- Churten Phone #: 575-397-0510	email or Fax#:  OA/OC Package:  DACCreditation: Date Time Matrix Sample Name  EDD (Type)  Date Time Matrix Sample Name  OFF S ATH- 3 FF  OFF S ATH- 3 FF	Date: Time: Relinquished by:  Date: Time: Relinquished by:  If necessary, samples submitted to Hall Environmental may be sut



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

August 05, 2020

Bob Allen Safety & Environmental Solutions PO Box 1613 Hobbs, NM 88241

TEL: (575) 397-0510 FAX (575) 393-4388

RE: Devon Cotton Draw 181 SWD OrderNo.: 2007E37

#### Dear Bob Allen:

Hall Environmental Analysis Laboratory received 33 sample(s) on 7/29/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **2007E37** 

Date Reported: 8/5/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-1 H-North

 Project:
 Devon Cotton Draw 181 SWD
 Collection Date: 7/23/2020 11:55:00 AM

 Lab ID:
 2007E37-001
 Matrix: SOIL
 Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	200	60	mg/Kg	20	8/3/2020 4:26:15 PM	54133
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/31/2020 4:33:24 AM	54042
Surr: BFB	100	70-130	%Rec	1	7/31/2020 4:33:24 AM	54042
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/3/2020 4:53:43 PM	54043
Motor Oil Range Organics (MRO)	85	47	mg/Kg	1	8/3/2020 4:53:43 PM	54043
Surr: DNOP	117	30.4-154	%Rec	1	8/3/2020 4:53:43 PM	54043
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>					Analyst	: DJF
Benzene	ND	0.024	mg/Kg	1	7/31/2020 4:33:24 AM	54042
Toluene	ND	0.048	mg/Kg	1	7/31/2020 4:33:24 AM	54042
Ethylbenzene	ND	0.048	mg/Kg	1	7/31/2020 4:33:24 AM	54042
Xylenes, Total	ND	0.095	mg/Kg	1	7/31/2020 4:33:24 AM	54042
Surr: 1,2-Dichloroethane-d4	106	70-130	%Rec	1	7/31/2020 4:33:24 AM	54042
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	7/31/2020 4:33:24 AM	54042
Surr: Dibromofluoromethane	111	70-130	%Rec	1	7/31/2020 4:33:24 AM	54042
Surr: Toluene-d8	97.4	70-130	%Rec	1	7/31/2020 4:33:24 AM	54042

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 43

Lab Order 2007E37

Date Reported: 8/5/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-2 Surface

 Project:
 Devon Cotton Draw 181 SWD
 Collection Date: 7/23/2020 12:40:00 PM

 Lab ID:
 2007E37-002
 Matrix: SOIL
 Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	60	mg/Kg	20	8/3/2020 3:26:27 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	7/31/2020 9:55:39 AM	54047
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/31/2020 9:55:39 AM	54047
Surr: DNOP	103	30.4-154	%Rec	1	7/31/2020 9:55:39 AM	54047
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/31/2020 8:41:20 PM	54044
Surr: BFB	96.3	75.3-105	%Rec	1	7/31/2020 8:41:20 PM	54044
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	7/31/2020 8:41:20 PM	54044
Toluene	ND	0.047	mg/Kg	1	7/31/2020 8:41:20 PM	54044
Ethylbenzene	ND	0.047	mg/Kg	1	7/31/2020 8:41:20 PM	54044
Xylenes, Total	ND	0.094	mg/Kg	1	7/31/2020 8:41:20 PM	54044
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	7/31/2020 8:41:20 PM	54044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2007E37** 

Date Reported: 8/5/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-3 H-West

 Project:
 Devon Cotton Draw 181 SWD
 Collection Date: 7/23/2020 1:25:00 PM

 Lab ID:
 2007E37-003
 Matrix: SOIL
 Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: CJS
Chloride	340	60		mg/Kg	20	8/3/2020 4:28:29 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: CLP
Diesel Range Organics (DRO)	2600	47		mg/Kg	5	7/31/2020 10:25:54 AM	54047
Motor Oil Range Organics (MRO)	2500	230		mg/Kg	5	7/31/2020 10:25:54 AM	54047
Surr: DNOP	309	30.4-154	S	%Rec	5	7/31/2020 10:25:54 AM	54047
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/31/2020 9:51:32 PM	54044
Surr: BFB	94.1	75.3-105		%Rec	1	7/31/2020 9:51:32 PM	54044
EPA METHOD 8021B: VOLATILES						Analyst	: RAA
Benzene	ND	0.024		mg/Kg	1	7/31/2020 9:51:32 PM	54044
Toluene	ND	0.048		mg/Kg	1	7/31/2020 9:51:32 PM	54044
Ethylbenzene	ND	0.048		mg/Kg	1	7/31/2020 9:51:32 PM	54044
Xylenes, Total	ND	0.096		mg/Kg	1	7/31/2020 9:51:32 PM	54044
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	7/31/2020 9:51:32 PM	54044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2007E37** 

Date Reported: 8/5/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-4 Surface

 Project:
 Devon Cotton Draw 181 SWD
 Collection Date: 7/23/2020 2:15:00 PM

 Lab ID:
 2007E37-004
 Matrix: SOIL
 Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	60	mg/Kg	20	8/3/2020 5:05:44 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/31/2020 10:35:59 AM	54047
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/31/2020 10:35:59 AM	54047
Surr: DNOP	121	30.4-154	%Rec	1	7/31/2020 10:35:59 AM	54047
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	7/31/2020 11:01:43 PM	54044
Surr: BFB	96.7	75.3-105	%Rec	1	7/31/2020 11:01:43 PM	54044
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.023	mg/Kg	1	7/31/2020 11:01:43 PM	54044
Toluene	ND	0.046	mg/Kg	1	7/31/2020 11:01:43 PM	54044
Ethylbenzene	ND	0.046	mg/Kg	1	7/31/2020 11:01:43 PM	54044
Xylenes, Total	ND	0.092	mg/Kg	1	7/31/2020 11:01:43 PM	54044
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	7/31/2020 11:01:43 PM	54044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2007E37** 

Date Reported: 8/5/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-5 Surface

 Project:
 Devon Cotton Draw 181 SWD
 Collection Date: 7/24/2020 9:15:00 AM

 Lab ID:
 2007E37-005
 Matrix: SOIL
 Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	68	60	mg/Kg	20	8/3/2020 5:18:09 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	7/31/2020 10:46:03 AM	54047
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/31/2020 10:46:03 AM	54047
Surr: DNOP	141	30.4-154	%Rec	1	7/31/2020 10:46:03 AM	54047
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/31/2020 11:25:05 PM	54044
Surr: BFB	94.8	75.3-105	%Rec	1	7/31/2020 11:25:05 PM	54044
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	7/31/2020 11:25:05 PM	54044
Toluene	ND	0.048	mg/Kg	1	7/31/2020 11:25:05 PM	54044
Ethylbenzene	ND	0.048	mg/Kg	1	7/31/2020 11:25:05 PM	54044
Xylenes, Total	ND	0.096	mg/Kg	1	7/31/2020 11:25:05 PM	54044
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	7/31/2020 11:25:05 PM	54044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2007E37** 

Date Reported: 8/5/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-6 H-South

 Project:
 Devon Cotton Draw 181 SWD
 Collection Date: 7/24/2020 9:35:00 AM

 Lab ID:
 2007E37-006
 Matrix: SOIL
 Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	67	60	mg/Kg	20	8/3/2020 5:30:34 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	7/31/2020 10:56:02 AM	54047
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/31/2020 10:56:02 AM	54047
Surr: DNOP	109	30.4-154	%Rec	1	7/31/2020 10:56:02 AM	54047
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/31/2020 11:48:31 PM	54044
Surr: BFB	95.9	75.3-105	%Rec	1	7/31/2020 11:48:31 PM	54044
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	7/31/2020 11:48:31 PM	54044
Toluene	ND	0.048	mg/Kg	1	7/31/2020 11:48:31 PM	54044
Ethylbenzene	ND	0.048	mg/Kg	1	7/31/2020 11:48:31 PM	54044
Xylenes, Total	ND	0.096	mg/Kg	1	7/31/2020 11:48:31 PM	54044
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	7/31/2020 11:48:31 PM	54044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2007E37** 

Date Reported: 8/5/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-7 Surface

 Project:
 Devon Cotton Draw 181 SWD
 Collection Date: 7/24/2020 9:55:00 AM

 Lab ID:
 2007E37-007
 Matrix: SOIL
 Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	310	60	mg/Kg	20	8/3/2020 5:42:58 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	7/31/2020 11:06:03 AM	54047
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/31/2020 11:06:03 AM	54047
Surr: DNOP	112	30.4-154	%Rec	1	7/31/2020 11:06:03 AM	54047
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/1/2020 12:11:58 AM	54044
Surr: BFB	97.6	75.3-105	%Rec	1	8/1/2020 12:11:58 AM	54044
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	8/1/2020 12:11:58 AM	54044
Toluene	ND	0.047	mg/Kg	1	8/1/2020 12:11:58 AM	54044
Ethylbenzene	ND	0.047	mg/Kg	1	8/1/2020 12:11:58 AM	54044
Xylenes, Total	ND	0.095	mg/Kg	1	8/1/2020 12:11:58 AM	54044
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	8/1/2020 12:11:58 AM	54044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2007E37

Client Sample ID: AH-8 H-South

Date Reported: 8/5/2020

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

Project: Devon Cotton Draw 181 SWD Collection Date: 7/24/2020 10:10:00 AM

**Lab ID:** 2007E37-008 **Matrix:** SOIL **Received Date:** 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	60	mg/Kg	20	8/3/2020 5:55:23 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/31/2020 11:16:06 AM	54047
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/31/2020 11:16:06 AM	54047
Surr: DNOP	127	30.4-154	%Rec	1	7/31/2020 11:16:06 AM	54047
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/1/2020 12:35:15 AM	54044
Surr: BFB	97.6	75.3-105	%Rec	1	8/1/2020 12:35:15 AM	54044
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.023	mg/Kg	1	8/1/2020 12:35:15 AM	54044
Toluene	ND	0.047	mg/Kg	1	8/1/2020 12:35:15 AM	54044
Ethylbenzene	ND	0.047	mg/Kg	1	8/1/2020 12:35:15 AM	54044
Xylenes, Total	ND	0.093	mg/Kg	1	8/1/2020 12:35:15 AM	54044
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	8/1/2020 12:35:15 AM	54044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2007E37

Date Reported: 8/5/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-9 Surface

 Project:
 Devon Cotton Draw 181 SWD
 Collection Date: 7/24/2020 10:25:00 AM

 Lab ID:
 2007E37-009
 Matrix: SOIL
 Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	60	mg/Kg	20	8/3/2020 6:32:38 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/31/2020 11:26:12 AM	54047
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/31/2020 11:26:12 AM	54047
Surr: DNOP	102	30.4-154	%Rec	1	7/31/2020 11:26:12 AM	54047
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/1/2020 12:58:36 AM	54044
Surr: BFB	96.4	75.3-105	%Rec	1	8/1/2020 12:58:36 AM	54044
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	8/1/2020 12:58:36 AM	54044
Toluene	ND	0.049	mg/Kg	1	8/1/2020 12:58:36 AM	54044
Ethylbenzene	ND	0.049	mg/Kg	1	8/1/2020 12:58:36 AM	54044
Xylenes, Total	ND	0.099	mg/Kg	1	8/1/2020 12:58:36 AM	54044
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	8/1/2020 12:58:36 AM	54044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2007E37** 

Date Reported: 8/5/2020

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions **Project:** Devon Cotton Draw 181 SWD

**Lab ID:** 2007E37-010

Matrix: SOIL

Collection Date: 7/24/2020 10:40:00 AM Received Date: 7/29/2020 9:30:00 AM

Client Sample ID: AH-10 H-Southeast

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	60	mg/Kg	20	8/3/2020 6:45:02 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/31/2020 11:36:17 AM	54047
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/31/2020 11:36:17 AM	54047
Surr: DNOP	95.0	30.4-154	%Rec	1	7/31/2020 11:36:17 AM	54047
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/1/2020 1:21:54 AM	54044
Surr: BFB	98.8	75.3-105	%Rec	1	8/1/2020 1:21:54 AM	54044
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.023	mg/Kg	1	8/1/2020 1:21:54 AM	54044
Toluene	ND	0.047	mg/Kg	1	8/1/2020 1:21:54 AM	54044
Ethylbenzene	ND	0.047	mg/Kg	1	8/1/2020 1:21:54 AM	54044
Xylenes, Total	ND	0.093	mg/Kg	1	8/1/2020 1:21:54 AM	54044
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	8/1/2020 1:21:54 AM	54044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2007E37

Date Reported: 8/5/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-11 Surface

 Project:
 Devon Cotton Draw 181 SWD
 Collection Date: 7/24/2020 11:00:00 AM

 Lab ID:
 2007E37-011
 Matrix: SOIL
 Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	60	mg/Kg	20	8/3/2020 6:57:26 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/31/2020 11:46:16 AM	54047
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/31/2020 11:46:16 AM	54047
Surr: DNOP	96.2	30.4-154	%Rec	1	7/31/2020 11:46:16 AM	54047
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/1/2020 1:45:21 AM	54044
Surr: BFB	94.3	75.3-105	%Rec	1	8/1/2020 1:45:21 AM	54044
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.023	mg/Kg	1	8/1/2020 1:45:21 AM	54044
Toluene	ND	0.046	mg/Kg	1	8/1/2020 1:45:21 AM	54044
Ethylbenzene	ND	0.046	mg/Kg	1	8/1/2020 1:45:21 AM	54044
Xylenes, Total	ND	0.092	mg/Kg	1	8/1/2020 1:45:21 AM	54044
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	8/1/2020 1:45:21 AM	54044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2007E37

Date Reported: 8/5/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-12 Surface

 Project:
 Devon Cotton Draw 181 SWD
 Collection Date: 7/24/2020 11:20:00 AM

 Lab ID:
 2007E37-012
 Matrix: SOIL
 Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	230	60	mg/Kg	20	8/3/2020 7:09:50 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	7/31/2020 11:56:17 AM	54047
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/31/2020 11:56:17 AM	54047
Surr: DNOP	106	30.4-154	%Rec	1	7/31/2020 11:56:17 AM	54047
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/1/2020 2:55:50 AM	54044
Surr: BFB	97.0	75.3-105	%Rec	1	8/1/2020 2:55:50 AM	54044
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	8/1/2020 2:55:50 AM	54044
Toluene	ND	0.049	mg/Kg	1	8/1/2020 2:55:50 AM	54044
Ethylbenzene	ND	0.049	mg/Kg	1	8/1/2020 2:55:50 AM	54044
Xylenes, Total	ND	0.098	mg/Kg	1	8/1/2020 2:55:50 AM	54044
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	8/1/2020 2:55:50 AM	54044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2007E37** 

Date Reported: 8/5/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-13 Surface

 Project:
 Devon Cotton Draw 181 SWD
 Collection Date: 7/24/2020 11:40:00 AM

 Lab ID:
 2007E37-013
 Matrix: SOIL
 Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	120	60	mg/Kg	20	8/3/2020 7:22:14 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	7/31/2020 12:06:15 PM	54047
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/31/2020 12:06:15 PM	54047
Surr: DNOP	106	30.4-154	%Rec	1	7/31/2020 12:06:15 PM	54047
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/1/2020 3:19:12 AM	54044
Surr: BFB	98.0	75.3-105	%Rec	1	8/1/2020 3:19:12 AM	54044
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	8/1/2020 3:19:12 AM	54044
Toluene	ND	0.048	mg/Kg	1	8/1/2020 3:19:12 AM	54044
Ethylbenzene	ND	0.048	mg/Kg	1	8/1/2020 3:19:12 AM	54044
Xylenes, Total	ND	0.097	mg/Kg	1	8/1/2020 3:19:12 AM	54044
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	8/1/2020 3:19:12 AM	54044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2007E37** 

Date Reported: 8/5/2020

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

Client Sample ID: AH-14 Surface

Project: Devon Cotton Draw 181 SWD Collection Date: 7/24/2020 12:00:00 PM

**Lab ID:** 2007E37-014 **Matrix:** SOIL **Received Date:** 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	ND	60	mg/Kg	20	8/3/2020 7:34:39 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	7/31/2020 12:16:16 PM	54047
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/31/2020 12:16:16 PM	54047
Surr: DNOP	107	30.4-154	%Rec	1	7/31/2020 12:16:16 PM	54047
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/1/2020 3:42:34 AM	54044
Surr: BFB	99.5	75.3-105	%Rec	1	8/1/2020 3:42:34 AM	54044
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	8/1/2020 3:42:34 AM	54044
Toluene	ND	0.049	mg/Kg	1	8/1/2020 3:42:34 AM	54044
Ethylbenzene	ND	0.049	mg/Kg	1	8/1/2020 3:42:34 AM	54044
Xylenes, Total	ND	0.097	mg/Kg	1	8/1/2020 3:42:34 AM	54044
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	8/1/2020 3:42:34 AM	54044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2007E37** 

Date Reported: 8/5/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-15 Surface

 Project:
 Devon Cotton Draw 181 SWD
 Collection Date: 7/24/2020 12:20:00 PM

 Lab ID:
 2007E37-015
 Matrix: SOIL
 Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	67	60	mg/Kg	20	8/3/2020 7:47:04 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/31/2020 12:26:17 PM	54047
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/31/2020 12:26:17 PM	54047
Surr: DNOP	109	30.4-154	%Rec	1	7/31/2020 12:26:17 PM	54047
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/1/2020 4:05:56 AM	54044
Surr: BFB	98.1	75.3-105	%Rec	1	8/1/2020 4:05:56 AM	54044
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	8/1/2020 4:05:56 AM	54044
Toluene	ND	0.048	mg/Kg	1	8/1/2020 4:05:56 AM	54044
Ethylbenzene	ND	0.048	mg/Kg	1	8/1/2020 4:05:56 AM	54044
Xylenes, Total	ND	0.096	mg/Kg	1	8/1/2020 4:05:56 AM	54044
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	8/1/2020 4:05:56 AM	54044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2007E37

Date Reported: 8/5/2020

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

**Project:** Devon Cotton Draw 181 SWD

2007E37-016 Lab ID:

Collection Date: 7/24/2020 12:50:00 PM

Client Sample ID: AH-16 Surface

Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	200	60	mg/Kg	20	8/3/2020 7:59:29 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/31/2020 12:36:18 PM	54047
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/31/2020 12:36:18 PM	54047
Surr: DNOP	102	30.4-154	%Rec	1	7/31/2020 12:36:18 PM	54047
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/1/2020 4:29:30 AM	54044
Surr: BFB	98.6	75.3-105	%Rec	1	8/1/2020 4:29:30 AM	54044
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	8/1/2020 4:29:30 AM	54044
Toluene	ND	0.048	mg/Kg	1	8/1/2020 4:29:30 AM	54044
Ethylbenzene	ND	0.048	mg/Kg	1	8/1/2020 4:29:30 AM	54044
Xylenes, Total	ND	0.095	mg/Kg	1	8/1/2020 4:29:30 AM	54044
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	8/1/2020 4:29:30 AM	54044

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Lab Order 2007E37

Date Reported: 8/5/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-17 Surface

**Project:** Devon Cotton Draw 181 SWD **Collection Date:** 7/24/2020 1:10:00 PM

**Lab ID:** 2007E37-017 **Matrix:** SOIL **Received Date:** 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	200	59	mg/Kg	20	8/3/2020 8:11:53 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/31/2020 12:46:18 PM	54047
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/31/2020 12:46:18 PM	54047
Surr: DNOP	105	30.4-154	%Rec	1	7/31/2020 12:46:18 PM	54047
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/1/2020 4:53:01 AM	54044
Surr: BFB	95.9	75.3-105	%Rec	1	8/1/2020 4:53:01 AM	54044
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	8/1/2020 4:53:01 AM	54044
Toluene	ND	0.048	mg/Kg	1	8/1/2020 4:53:01 AM	54044
Ethylbenzene	ND	0.048	mg/Kg	1	8/1/2020 4:53:01 AM	54044
Xylenes, Total	ND	0.096	mg/Kg	1	8/1/2020 4:53:01 AM	54044
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	8/1/2020 4:53:01 AM	54044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2007E37

Date Reported: 8/5/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-18 H-East

 Project:
 Devon Cotton Draw 181 SWD
 Collection Date: 7/24/2020 1:30:00 PM

 Lab ID:
 2007E37-018
 Matrix: SOIL
 Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	ND	60	mg/Kg	20	8/3/2020 8:24:17 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/31/2020 12:56:23 PM	54047
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/31/2020 12:56:23 PM	54047
Surr: DNOP	98.8	30.4-154	%Rec	1	7/31/2020 12:56:23 PM	54047
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/1/2020 5:16:37 AM	54044
Surr: BFB	96.4	75.3-105	%Rec	1	8/1/2020 5:16:37 AM	54044
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	RAA
Benzene	ND	0.025	mg/Kg	1	8/1/2020 5:16:37 AM	54044
Toluene	ND	0.049	mg/Kg	1	8/1/2020 5:16:37 AM	54044
Ethylbenzene	ND	0.049	mg/Kg	1	8/1/2020 5:16:37 AM	54044
Xylenes, Total	ND	0.099	mg/Kg	1	8/1/2020 5:16:37 AM	54044
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	8/1/2020 5:16:37 AM	54044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2007E37** 

Date Reported: 8/5/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-19 Surface

**Project:** Devon Cotton Draw 181 SWD **Collection Date:** 7/24/2020 1:55:00 PM

**Lab ID:** 2007E37-019 **Matrix:** SOIL **Received Date:** 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	59	mg/Kg	20	8/3/2020 9:01:30 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	7/31/2020 1:06:28 PM	54047
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/31/2020 1:06:28 PM	54047
Surr: DNOP	94.6	30.4-154	%Rec	1	7/31/2020 1:06:28 PM	54047
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/1/2020 5:40:18 AM	54044
Surr: BFB	99.1	75.3-105	%Rec	1	8/1/2020 5:40:18 AM	54044
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	8/1/2020 5:40:18 AM	54044
Toluene	ND	0.048	mg/Kg	1	8/1/2020 5:40:18 AM	54044
Ethylbenzene	ND	0.048	mg/Kg	1	8/1/2020 5:40:18 AM	54044
Xylenes, Total	ND	0.097	mg/Kg	1	8/1/2020 5:40:18 AM	54044
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	8/1/2020 5:40:18 AM	54044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2007E37** 

Client Sample ID: AH-22 Surface

Date Reported: 8/5/2020

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

**Project:** Devon Cotton Draw 181 SWD **Collection Date:** 7/24/2020 2:20:00 PM

**Lab ID:** 2007E37-020 **Matrix:** SOIL **Received Date:** 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	60	mg/Kg	20	8/3/2020 9:13:55 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/31/2020 1:16:34 PM	54047
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/31/2020 1:16:34 PM	54047
Surr: DNOP	108	30.4-154	%Rec	1	7/31/2020 1:16:34 PM	54047
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/1/2020 6:03:47 AM	54044
Surr: BFB	100	75.3-105	%Rec	1	8/1/2020 6:03:47 AM	54044
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	8/1/2020 6:03:47 AM	54044
Toluene	ND	0.048	mg/Kg	1	8/1/2020 6:03:47 AM	54044
Ethylbenzene	ND	0.048	mg/Kg	1	8/1/2020 6:03:47 AM	54044
Xylenes, Total	ND	0.097	mg/Kg	1	8/1/2020 6:03:47 AM	54044
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	8/1/2020 6:03:47 AM	54044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2007E37** 

Date Reported: 8/5/2020

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

**Project:** Devon Cotton Draw 181 SWD

**Lab ID:** 2007E37-021

Client Sample ID: AH-21 Surface

Collection Date: 7/27/2020 9:00:00 AM Received Date: 7/29/2020 9:30:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: CJS Chloride 80 60 mg/Kg 20 8/3/2020 9:26:20 PM 54130 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 9.8 mg/Kg 8/4/2020 11:47:47 AM 54047 Motor Oil Range Organics (MRO) ND 54047 49 mg/Kg 1 8/4/2020 11:47:47 AM Surr: DNOP 103 30.4-154 %Rec 8/4/2020 11:47:47 AM 54047 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 8/1/2020 6:27:25 AM 54044 4.7 mg/Kg 1 Surr: BFB 96.9 75.3-105 %Rec 8/1/2020 6:27:25 AM 54044 **EPA METHOD 8021B: VOLATILES** Analyst: RAA ND 8/1/2020 6:27:25 AM 54044 Benzene 0.023 mg/Kg Toluene ND 0.047 mg/Kg 8/1/2020 6:27:25 AM 54044 Ethylbenzene ND 0.047 mg/Kg 1 8/1/2020 6:27:25 AM 54044 Xylenes, Total ND 0.094 mg/Kg 8/1/2020 6:27:25 AM 54044 Surr: 4-Bromofluorobenzene 54044 103 80-120 %Rec 8/1/2020 6:27:25 AM

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2007E37-022

Lab ID:

#### **Analytical Report**

Lab Order **2007E37** 

Received Date: 7/29/2020 9:30:00 AM

Date Reported: 8/5/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-24 Surface

**Project:** Devon Cotton Draw 181 SWD **Collection Date:** 7/27/2020 9:25:00 AM

Matrix: SOIL

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: CJS Chloride 430 60 mg/Kg 20 8/3/2020 5:03:30 PM 54133 **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: **DJF** Gasoline Range Organics (GRO) ND 4.9 mg/Kg 7/31/2020 5:01:50 AM 54045 Surr: BFB 95.8 70-130 %Rec 1 7/31/2020 5:01:50 AM 54045 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP Diesel Range Organics (DRO) ND 9.5 mg/Kg 7/31/2020 4:45:05 PM 54051 Motor Oil Range Organics (MRO) ND 7/31/2020 4:45:05 PM 54051 47 mg/Kg 1 Surr: DNOP 109 30.4-154 %Rec 7/31/2020 4:45:05 PM 54051 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: DJF ND 7/31/2020 5:01:50 AM 54045 Benzene 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 7/31/2020 5:01:50 AM 54045 Ethylbenzene ND 0.049 mg/Kg 1 7/31/2020 5:01:50 AM 54045 Xylenes, Total ND 0.099 mg/Kg 7/31/2020 5:01:50 AM 54045 Surr: 1,2-Dichloroethane-d4 103 70-130 %Rec 7/31/2020 5:01:50 AM 54045 Surr: 4-Bromofluorobenzene 96.9 70-130 %Rec 1 7/31/2020 5:01:50 AM 54045 Surr: Dibromofluoromethane 105 70-130 %Rec 1 7/31/2020 5:01:50 AM 54045 Surr: Toluene-d8 98.5 70-130 %Rec 7/31/2020 5:01:50 AM 54045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2007E37** 

Date Reported: 8/5/2020

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

**Project:** Devon Cotton Draw 181 SWD

**Lab ID:** 2007E37-023

Client Sample ID: AH-24 1ft

Collection Date: 7/27/2020 9:50:00 AM Received Date: 7/29/2020 9:30:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: CJS 8/3/2020 5:40:44 PM Chloride 79 60 mg/Kg 20 54133 **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: DJF Gasoline Range Organics (GRO) ND 4.9 mg/Kg 7/31/2020 6:27:34 AM 54045 Surr: BFB 103 70-130 %Rec 1 7/31/2020 6:27:34 AM 54045 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP Diesel Range Organics (DRO) ND 9.3 mg/Kg 7/31/2020 4:55:26 PM 54051 Motor Oil Range Organics (MRO) ND 7/31/2020 4:55:26 PM 54051 46 mg/Kg 1 Surr: DNOP 30.4-154 %Rec 7/31/2020 4:55:26 PM 54051 123 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: DJF ND 7/31/2020 6:27:34 AM 54045 Benzene 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 7/31/2020 6:27:34 AM 54045 Ethylbenzene ND 0.049 mg/Kg 1 7/31/2020 6:27:34 AM 54045 Xylenes, Total ND 0.098 mg/Kg 7/31/2020 6:27:34 AM 54045 Surr: 1,2-Dichloroethane-d4 98.2 70-130 %Rec 1 7/31/2020 6:27:34 AM 54045 Surr: 4-Bromofluorobenzene 99.4 70-130 %Rec 1 7/31/2020 6:27:34 AM 54045 107 Surr: Dibromofluoromethane 70-130 %Rec 1 7/31/2020 6:27:34 AM 54045 Surr: Toluene-d8 98.1 70-130 %Rec 7/31/2020 6:27:34 AM 54045

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2007E37

Date Reported: 8/5/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-23 H-East

 Project:
 Devon Cotton Draw 181 SWD
 Collection Date: 7/27/2020 10:15:00 AM

 Lab ID:
 2007E37-024
 Matrix: SOIL
 Received Date: 7/29/2020 9:30:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride 180 60 mg/Kg 20 8/3/2020 8:51:50 PM 54139 **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: DJF Gasoline Range Organics (GRO) ND 4.9 mg/Kg 1 8/2/2020 2:50:24 AM 54045 Surr: BFB 101 70-130 %Rec 1 8/2/2020 2:50:24 AM 54045 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP Diesel Range Organics (DRO) ND 9.6 mg/Kg 7/31/2020 5:05:49 PM 54051 Motor Oil Range Organics (MRO) ND 1 7/31/2020 5:05:49 PM 54051 48 mg/Kg Surr: DNOP 104 30.4-154 %Rec 7/31/2020 5:05:49 PM 54051 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: DJF ND 7/31/2020 1:45:35 PM 54045 Benzene 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 7/31/2020 1:45:35 PM 54045 Ethylbenzene ND 0.049 mg/Kg 1 7/31/2020 1:45:35 PM 54045 Xylenes, Total ND 0.097 mg/Kg 7/31/2020 1:45:35 PM 54045 Surr: 1,2-Dichloroethane-d4 102 70-130 %Rec 1 7/31/2020 1:45:35 PM 54045 Surr: 4-Bromofluorobenzene 94.0 70-130 %Rec 1 7/31/2020 1:45:35 PM 54045 101 Surr: Dibromofluoromethane 70-130 %Rec 1 7/31/2020 1:45:35 PM 54045 Surr: Toluene-d8 102 70-130 %Rec 7/31/2020 1:45:35 PM 54045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2007E37** 

Date Reported: 8/5/2020

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions **Project:** Devon Cotton Draw 181 SWD

**Lab ID:** 2007E37-025

Matrix: SOIL

**Collection Date:** 7/27/2020 10:50:00 AM **Received Date:** 7/29/2020 9:30:00 AM

Client Sample ID: AH-25 H-Northeast

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	220	60	mg/Kg	20	8/3/2020 9:28:53 PM	54139
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/31/2020 2:14:17 PM	54045
Surr: BFB	97.2	70-130	%Rec	1	7/31/2020 2:14:17 PM	54045
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/31/2020 5:16:15 PM	54051
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/31/2020 5:16:15 PM	54051
Surr: DNOP	70.5	30.4-154	%Rec	1	7/31/2020 5:16:15 PM	54051
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>					Analyst	DJF
Benzene	ND	0.023	mg/Kg	1	7/31/2020 2:14:17 PM	54045
Toluene	ND	0.047	mg/Kg	1	7/31/2020 2:14:17 PM	54045
Ethylbenzene	ND	0.047	mg/Kg	1	7/31/2020 2:14:17 PM	54045
Xylenes, Total	ND	0.093	mg/Kg	1	7/31/2020 2:14:17 PM	54045
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	7/31/2020 2:14:17 PM	54045
Surr: 4-Bromofluorobenzene	94.4	70-130	%Rec	1	7/31/2020 2:14:17 PM	54045
Surr: Dibromofluoromethane	107	70-130	%Rec	1	7/31/2020 2:14:17 PM	54045
Surr: Toluene-d8	99.8	70-130	%Rec	1	7/31/2020 2:14:17 PM	54045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2007E37** 

Date Reported: 8/5/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-26 Surface

Project: Devon Cotton Draw 181 SWD Collection Date: 7/27/2020 11:15:00 AM

**Lab ID:** 2007E37-026 **Matrix:** SOIL **Received Date:** 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	220	60	mg/Kg	20	8/3/2020 9:41:13 PM	54139
EPA METHOD 8015D MOD: GASOLINE RANGE	į				Analyst	DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/31/2020 2:42:55 PM	54045
Surr: BFB	99.1	70-130	%Rec	1	7/31/2020 2:42:55 PM	54045
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/31/2020 5:26:47 PM	54051
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/31/2020 5:26:47 PM	54051
Surr: DNOP	84.2	30.4-154	%Rec	1	7/31/2020 5:26:47 PM	54051
EPA METHOD 8260B: VOLATILES SHORT LIST	Г				Analyst	: DJF
Benzene	ND	0.025	mg/Kg	1	7/31/2020 2:42:55 PM	54045
Toluene	ND	0.050	mg/Kg	1	7/31/2020 2:42:55 PM	54045
Ethylbenzene	ND	0.050	mg/Kg	1	7/31/2020 2:42:55 PM	54045
Xylenes, Total	ND	0.099	mg/Kg	1	7/31/2020 2:42:55 PM	54045
Surr: 1,2-Dichloroethane-d4	97.6	70-130	%Rec	1	7/31/2020 2:42:55 PM	54045
Surr: 4-Bromofluorobenzene	96.2	70-130	%Rec	1	7/31/2020 2:42:55 PM	54045
Surr: Dibromofluoromethane	109	70-130	%Rec	1	7/31/2020 2:42:55 PM	54045
Surr: Toluene-d8	101	70-130	%Rec	1	7/31/2020 2:42:55 PM	54045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2007E37

Date Reported: 8/5/2020

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

**Project:** Devon Cotton Draw 181 SWD

2007E37-027 Lab ID:

Collection Date: 7/27/2020 11:45:00 AM

Client Sample ID: AH-27 Surface

Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	8/3/2020 10:18:14 PM	54139
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/31/2020 3:11:39 PM	54045
Surr: BFB	101	70-130	%Rec	1	7/31/2020 3:11:39 PM	54045
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/31/2020 5:37:24 PM	54051
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/31/2020 5:37:24 PM	54051
Surr: DNOP	49.3	30.4-154	%Rec	1	7/31/2020 5:37:24 PM	54051
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: DJF
Benzene	ND	0.025	mg/Kg	1	7/31/2020 3:11:39 PM	54045
Toluene	ND	0.050	mg/Kg	1	7/31/2020 3:11:39 PM	54045
Ethylbenzene	ND	0.050	mg/Kg	1	7/31/2020 3:11:39 PM	54045
Xylenes, Total	ND	0.099	mg/Kg	1	7/31/2020 3:11:39 PM	54045
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	1	7/31/2020 3:11:39 PM	54045
Surr: 4-Bromofluorobenzene	97.5	70-130	%Rec	1	7/31/2020 3:11:39 PM	54045
Surr: Dibromofluoromethane	108	70-130	%Rec	1	7/31/2020 3:11:39 PM	54045
Surr: Toluene-d8	101	70-130	%Rec	1	7/31/2020 3:11:39 PM	54045

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Lab Order **2007E37** 

Date Reported: 8/5/2020

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

**Project:** Devon Cotton Draw 181 SWD

**Lab ID:** 2007E37-028

Client Sample ID: AH-28 Surface

**Collection Date:** 7/27/2020 12:05:00 PM

Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	8/3/2020 10:30:35 PM	54139
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/31/2020 3:40:18 PM	54045
Surr: BFB	103	70-130	%Rec	1	7/31/2020 3:40:18 PM	54045
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	7/31/2020 5:48:03 PM	54051
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/31/2020 5:48:03 PM	54051
Surr: DNOP	60.7	30.4-154	%Rec	1	7/31/2020 5:48:03 PM	54051
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: DJF
Benzene	ND	0.025	mg/Kg	1	7/31/2020 3:40:18 PM	54045
Toluene	ND	0.050	mg/Kg	1	7/31/2020 3:40:18 PM	54045
Ethylbenzene	ND	0.050	mg/Kg	1	7/31/2020 3:40:18 PM	54045
Xylenes, Total	ND	0.099	mg/Kg	1	7/31/2020 3:40:18 PM	54045
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	7/31/2020 3:40:18 PM	54045
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	7/31/2020 3:40:18 PM	54045
Surr: Dibromofluoromethane	106	70-130	%Rec	1	7/31/2020 3:40:18 PM	54045
Surr: Toluene-d8	97.9	70-130	%Rec	1	7/31/2020 3:40:18 PM	54045

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2007E37

Date Reported: 8/5/2020

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

**Project:** Devon Cotton Draw 181 SWD

**Lab ID:** 2007E37-029

Client Sample ID: AH-29 H-North

**Collection Date:** 7/27/2020 12:20:00 PM

Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	59	mg/Kg	20	8/3/2020 10:42:56 PM	54139
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/31/2020 4:08:57 PM	54045
Surr: BFB	99.1	70-130	%Rec	1	7/31/2020 4:08:57 PM	54045
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/31/2020 5:58:41 PM	54051
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/31/2020 5:58:41 PM	54051
Surr: DNOP	64.9	30.4-154	%Rec	1	7/31/2020 5:58:41 PM	54051
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: DJF
Benzene	ND	0.025	mg/Kg	1	7/31/2020 4:08:57 PM	54045
Toluene	ND	0.049	mg/Kg	1	7/31/2020 4:08:57 PM	54045
Ethylbenzene	ND	0.049	mg/Kg	1	7/31/2020 4:08:57 PM	54045
Xylenes, Total	ND	0.099	mg/Kg	1	7/31/2020 4:08:57 PM	54045
Surr: 1,2-Dichloroethane-d4	106	70-130	%Rec	1	7/31/2020 4:08:57 PM	54045
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	7/31/2020 4:08:57 PM	54045
Surr: Dibromofluoromethane	107	70-130	%Rec	1	7/31/2020 4:08:57 PM	54045
Surr: Toluene-d8	101	70-130	%Rec	1	7/31/2020 4:08:57 PM	54045

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2007E37** 

Date Reported: 8/5/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-30 Surface

 Project:
 Devon Cotton Draw 181 SWD
 Collection Date: 7/27/2020 12:50:00 PM

 Lab ID:
 2007E37-030
 Matrix: SOIL
 Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	8/3/2020 10:55:17 PM	54139
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/31/2020 4:37:36 PM	54045
Surr: BFB	94.3	70-130	%Rec	1	7/31/2020 4:37:36 PM	54045
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/31/2020 6:09:15 PM	54051
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/31/2020 6:09:15 PM	54051
Surr: DNOP	98.6	30.4-154	%Rec	1	7/31/2020 6:09:15 PM	54051
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>					Analyst	DJF
Benzene	ND	0.025	mg/Kg	1	7/31/2020 4:37:36 PM	54045
Toluene	ND	0.049	mg/Kg	1	7/31/2020 4:37:36 PM	54045
Ethylbenzene	ND	0.049	mg/Kg	1	7/31/2020 4:37:36 PM	54045
Xylenes, Total	ND	0.099	mg/Kg	1	7/31/2020 4:37:36 PM	54045
Surr: 1,2-Dichloroethane-d4	98.7	70-130	%Rec	1	7/31/2020 4:37:36 PM	54045
Surr: 4-Bromofluorobenzene	95.1	70-130	%Rec	1	7/31/2020 4:37:36 PM	54045
Surr: Dibromofluoromethane	101	70-130	%Rec	1	7/31/2020 4:37:36 PM	54045
Surr: Toluene-d8	98.0	70-130	%Rec	1	7/31/2020 4:37:36 PM	54045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2007E37

Date Reported: 8/5/2020

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

**Project:** Devon Cotton Draw 181 SWD

**Lab ID:** 2007E37-031

Client Sample ID: AH-31 Surface

**Collection Date:** 7/27/2020 1:20:00 PM

Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	8/3/2020 11:07:37 PM	54139
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/31/2020 5:06:15 PM	54045
Surr: BFB	104	70-130	%Rec	1	7/31/2020 5:06:15 PM	54045
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/31/2020 6:19:51 PM	54051
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/31/2020 6:19:51 PM	54051
Surr: DNOP	88.9	30.4-154	%Rec	1	7/31/2020 6:19:51 PM	54051
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>					Analyst	: DJF
Benzene	ND	0.024	mg/Kg	1	7/31/2020 5:06:15 PM	54045
Toluene	ND	0.049	mg/Kg	1	7/31/2020 5:06:15 PM	54045
Ethylbenzene	ND	0.049	mg/Kg	1	7/31/2020 5:06:15 PM	54045
Xylenes, Total	ND	0.098	mg/Kg	1	7/31/2020 5:06:15 PM	54045
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	7/31/2020 5:06:15 PM	54045
Surr: 4-Bromofluorobenzene	97.0	70-130	%Rec	1	7/31/2020 5:06:15 PM	54045
Surr: Dibromofluoromethane	107	70-130	%Rec	1	7/31/2020 5:06:15 PM	54045
Surr: Toluene-d8	104	70-130	%Rec	1	7/31/2020 5:06:15 PM	54045

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2007E37** 

Date Reported: 8/5/2020

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

**Project:** Devon Cotton Draw 181 SWD

**Lab ID:** 2007E37-032

Matrix: SOIL

**Collection Date:** 7/27/2020 1:50:00 PM **Received Date:** 7/29/2020 9:30:00 AM

Client Sample ID: AH-32 Surface

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	290	60	mg/Kg	20	8/3/2020 11:19:57 PM	54139
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>					Analyst	: DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/31/2020 5:35:00 PM	54045
Surr: BFB	102	70-130	%Rec	1	7/31/2020 5:35:00 PM	54045
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/31/2020 6:30:17 PM	54051
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/31/2020 6:30:17 PM	54051
Surr: DNOP	120	30.4-154	%Rec	1	7/31/2020 6:30:17 PM	54051
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>					Analyst	: DJF
Benzene	ND	0.024	mg/Kg	1	7/31/2020 5:35:00 PM	54045
Toluene	ND	0.049	mg/Kg	1	7/31/2020 5:35:00 PM	54045
Ethylbenzene	ND	0.049	mg/Kg	1	7/31/2020 5:35:00 PM	54045
Xylenes, Total	ND	0.098	mg/Kg	1	7/31/2020 5:35:00 PM	54045
Surr: 1,2-Dichloroethane-d4	99.4	70-130	%Rec	1	7/31/2020 5:35:00 PM	54045
Surr: 4-Bromofluorobenzene	98.5	70-130	%Rec	1	7/31/2020 5:35:00 PM	54045
Surr: Dibromofluoromethane	106	70-130	%Rec	1	7/31/2020 5:35:00 PM	54045
Surr: Toluene-d8	101	70-130	%Rec	1	7/31/2020 5:35:00 PM	54045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2007E37

Date Reported: 8/5/2020

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

**Project:** Devon Cotton Draw 181 SWD

**Lab ID:** 2007E37-033

Matrix: SOIL

**Collection Date:** 7/27/2020 2:10:00 PM **Received Date:** 7/29/2020 9:30:00 AM

Client Sample ID: AH-33 Surface

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	8/3/2020 11:32:17 PM	54139
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/31/2020 6:03:42 PM	54045
Surr: BFB	96.1	70-130	%Rec	1	7/31/2020 6:03:42 PM	54045
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/31/2020 6:40:36 PM	54051
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/31/2020 6:40:36 PM	54051
Surr: DNOP	80.3	30.4-154	%Rec	1	7/31/2020 6:40:36 PM	54051
EPA METHOD 8260B: VOLATILES SHORT LIST	Г				Analyst	: DJF
Benzene	ND	0.024	mg/Kg	1	7/31/2020 6:03:42 PM	54045
Toluene	ND	0.049	mg/Kg	1	7/31/2020 6:03:42 PM	54045
Ethylbenzene	ND	0.049	mg/Kg	1	7/31/2020 6:03:42 PM	54045
Xylenes, Total	ND	0.098	mg/Kg	1	7/31/2020 6:03:42 PM	54045
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	7/31/2020 6:03:42 PM	54045
Surr: 4-Bromofluorobenzene	98.7	70-130	%Rec	1	7/31/2020 6:03:42 PM	54045
Surr: Dibromofluoromethane	107	70-130	%Rec	1	7/31/2020 6:03:42 PM	54045
Surr: Toluene-d8	98.3	70-130	%Rec	1	7/31/2020 6:03:42 PM	54045

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2007E37** 

05-Aug-20

Client: Safety & Environmental Solutions
Project: Devon Cotton Draw 181 SWD

Sample ID: MB-54130 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 54130 RunNo: 70807

Prep Date: 8/3/2020 Analysis Date: 8/3/2020 SeqNo: 2464841 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-54130 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 54130 RunNo: 70807

Prep Date: 8/3/2020 Analysis Date: 8/3/2020 SeqNo: 2464842 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.0 90 110

Sample ID: MB-54139 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 54139 RunNo: 70812

Prep Date: 8/3/2020 Analysis Date: 8/3/2020 SeqNo: 2465249 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-54139 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 54139 RunNo: 70812

Prep Date: 8/3/2020 Analysis Date: 8/3/2020 SeqNo: 2465250 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.0 90 110

Sample ID: MB-54133 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **54133** RunNo: **70785** 

Prep Date: 8/3/2020 Analysis Date: 8/3/2020 SeqNo: 2465333 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-54133 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 54133 RunNo: 70785

Prep Date: 8/3/2020 Analysis Date: 8/3/2020 SeqNo: 2465334 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 91.4 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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**Client:** 

Surr: DNOP

Sample ID: MB-54043

# Hall Environmental Analysis Laboratory, Inc.

Safety & Environmental Solutions

4.0

SampType: MBLK

WO#: **2007E37 05-Aug-20** 

Project: D	evon Cotton Dra	ıw 181 S'	WD							
Sample ID: LCS-5404	3 Samp	Туре: <b>LC</b>	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Bat	ch ID: 54	043	F	RunNo: 70	0757				
Prep Date: 7/29/202	O Analysis	Date: 7/	/30/2020	9	SeqNo: 2	462544	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DR	0) 43	10	50.00	0	86.1	70	130			

79.6

30.4

154

TestCode: EPA Method 8015M/D: Diesel Range Organics

5.000

Client ID: PBS Batch ID: 54043 RunNo: 70757 Prep Date: 7/29/2020 Analysis Date: 7/30/2020 SeqNo: 2462545 Units: mg/Kg HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 10.00 114 30.4 154 11

Sample ID: MB-54047 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 54047 RunNo: 70804 Prep Date: 7/29/2020 Analysis Date: 7/31/2020 SeqNo: 2464707 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 9.9 10.00 99.4 30.4 154

Sample ID: MB-54051 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 54051 RunNo: 70804 Prep Date: 7/29/2020 Analysis Date: 7/31/2020 SeqNo: 2464708 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 10.00 124 30.4 154 12

Sample ID: LCS-54047 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: LCS Client ID: LCSS Batch ID: 54047 RunNo: 70804 Prep Date: 7/29/2020 Analysis Date: 7/31/2020 SeqNo: 2464709 Units: mg/Kg PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual Diesel Range Organics (DRO) 51 10 50.00 102 70 130

Surr: DNOP 4.8 5.000 95.1 30.4 154

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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# Hall Environmental Analysis Laboratory, Inc.

4.6

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WO#: 2007E37

05-Aug-20

**Client:** Safety & Environmental Solutions **Project:** Devon Cotton Draw 181 SWD

Sample ID: LCS-54051 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 70804 Client ID: LCSS Batch ID: 54051 Prep Date: 7/29/2020 Analysis Date: 7/31/2020 SeqNo: 2464710 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Diesel Range Organics (DRO) 10 0 58 50.00 116 70 130 Surr: DNOP 5.7 5.000 115 30.4 154

4.717

4.566

Sample ID: 2007E37-002AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 70804 Client ID: AH-2 Surface Batch ID: 54047 Prep Date: 7/29/2020 Analysis Date: 7/31/2020 SeqNo: 2464755 Units: mg/Kg Result Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 47.4 45 9.4 47.17 0 96.1 136

Sample ID: 2007E37-002AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: AH-2 Surface Batch ID: 54047 RunNo: 70804 Prep Date: 7/29/2020 Analysis Date: 7/31/2020 SeqNo: 2464758 Units: mg/Kg %RPD Result PQL SPK value SPK Ref Val %REC HighLimit **RPDLimit** Qual Analyte LowLimit Diesel Range Organics (DRO) 50 45.66 0 110 47.4 136 10.6 43.4

97.6

125

30.4

30.4

154

154

0

## Qualifiers:

Surr: DNOP

Surr: DNOP

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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# Hall Environmental Analysis Laboratory, Inc.

2007E37 05-Aug-20

WO#:

Client: Safety & Environmental Solutions
Project: Devon Cotton Draw 181 SWD

Sample ID: 2007e37-002ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: AH-2 Surface Batch ID: 54044 RunNo: 70754 Prep Date: 7/29/2020 Analysis Date: 7/31/2020 SeqNo: 2462779 Units: mg/Kg PQL SPK value SPK Ref Val HighLimit %RPD **RPDLimit** Analyte Result %REC LowLimit Qual Gasoline Range Organics (GRO) 22 4.9 24.58 Λ 89.0 61.3 114 Surr: BFB 1100 983.3 109 75.3 105 S

Sample ID: 2007e37-002amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range AH-2 Surface Batch ID: 54044 RunNo: 70754 Prep Date: 7/29/2020 Analysis Date: 7/31/2020 SeqNo: 2462780 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 20 4.8 24.15 O 82.2 61.3 114 9.69 20 Surr: BFB 1000 S 966.2 108 75.3 105 0

Sample ID: Ics-54044 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 54044 RunNo: 70754 Prep Date: 7/29/2020 Analysis Date: 7/31/2020 SeqNo: 2462804 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte LowLimit Qual Gasoline Range Organics (GRO) 20 5.0 25.00 0 81.8 72.5 106 Surr: BFB S 1100 1000 105 75.3 105

Sample ID: mb-54044 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 54044 RunNo: 70754 Prep Date: 7/29/2020 Analysis Date: 7/31/2020 SeqNo: 2462805 Units: mg/Kg SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 1000 1000 99.9 75.3 105

### Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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# Hall Environmental Analysis Laboratory, Inc.

WO#: **2007E37** 

05-Aug-20

Client: Safety & Environmental Solutions
Project: Devon Cotton Draw 181 SWD

Sample ID: 2007e37-003ams	SampType: MS TestCode: EPA Method 8							tiles		
Client ID: AH-3 H-West	Batcl	n ID: <b>54</b> 0	)44	F	RunNo: 7	0754				
Prep Date: 7/29/2020	Analysis D	Date: 7/	31/2020	S	SeqNo: 2	462879	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9728	0	97.2	76.3	120			
Toluene	0.99	0.049	0.9728	0.01032	101	78.5	120			
Ethylbenzene	1.0	0.049	0.9728	0	103	78.1	124			
Xylenes, Total	3.0	0.097	2.918	0	104	79.3	125			
Surr: 4-Bromofluorobenzene	1.0		0.9728		106	80	120			

Sample ID: 2007e37-003amsd	SampType: MSD TestCode: EPA Method 8021B: Volatiles									
Client ID: AH-3 H-West	Batch	atch ID: <b>54044</b> RunNo: <b>70754</b>								
Prep Date: 7/29/2020	Analysis D	ate: <b>7/</b> 3	31/2020	S	SeqNo: 2	462880	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.024	0.9756	0	95.6	76.3	120	1.29	20	
Toluene	0.98	0.049	0.9756	0.01032	99.2	78.5	120	1.23	20	
Ethylbenzene	1.0	0.049	0.9756	0	103	78.1	124	0.552	20	
Xylenes, Total	3.0	0.098	2.927	0	104	79.3	125	0.427	20	
Surr: 4-Bromofluorobenzene	1.0		0.9756		104	80	120	0	0	

Sample ID: LCS-54044	SampT	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batcl	n ID: <b>54</b> 0	044	F	RunNo: 7	0754				
Prep Date: <b>7/29/2020</b>	Analysis D	Date: 7/	31/2020	S	SeqNo: 2	462903	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.4	80	120			
Toluene	0.91	0.050	1.000	0	91.2	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.4	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.3	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	80	120			

Sample ID: mb-54044	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: <b>54</b>	044	F	RunNo: 7	0754				
Prep Date: 7/29/2020	Analysis D	ate: 7/	31/2020	8	SeqNo: 2	462904	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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# Hall Environmental Analysis Laboratory, Inc.

WO#: 2007E37

05-Aug-20

**Client:** Safety & Environmental Solutions **Project:** Devon Cotton Draw 181 SWD

Sample ID: <b>mb-54042</b>	SampT	Гуре: <b>МЕ</b>	BLK	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: PBS	Batcl	h ID: <b>54</b> 0	042	F	RunNo: 7	0747				
Prep Date: 7/29/2020	Analysis Date: 7/30/2020			SeqNo: <b>2462167</b>			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.51		0.5000		102	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		99.0	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		103	70	130			
Surr: Toluene-d8	0.48		0.5000		96.4	70	130			

Sample ID: Ics-54042	SampT	ype: <b>LC</b>	S4	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: BatchQC	Batcl	h ID: <b>54</b> 0	042	F	RunNo: 7	0747				
Prep Date: 7/29/2020	Analysis D	Date: <b>7/</b>	30/2020	9	SeqNo: 2	462168	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.5	80	120			
Toluene	0.99	0.050	1.000	0	99.1	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		99.8	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		100	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		103	70	130			
Surr: Toluene-d8	0.48		0.5000		95.6	70	130			

Sample ID: mb-54045	SampT	уре: МЕ	BLK	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: PBS	Batcl	n ID: <b>540</b>	045	F	RunNo: 70	0747				
Prep Date: 7/29/2020	Analysis D	oate: <b>7/</b> 3	31/2020	8	SeqNo: 24	462218	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		99.4	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		103	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		106	70	130			
Surr: Toluene-d8	0.51		0.5000		102	70	130			

## Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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# Hall Environmental Analysis Laboratory, Inc.

WO#: **2007E37** 

05-Aug-20

Client: Safety & Environmental Solutions
Project: Devon Cotton Draw 181 SWD

Sample ID: Ics-54045 Client ID: BatchQC	•	Гуре: <b>LC</b> h ID: <b>54</b> (			tCode: <b>El</b> RunNo: <b>7</b> 0		8260B: Vola	tiles Short	List	
Prep Date: 7/29/2020	Analysis D	Date: <b>7/</b>	30/2020	5	SeqNo: 2	462219	Units: mg/k	<b>(</b> g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.4	80	120			
Toluene	0.99	0.050	1.000	0	98.9	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.2	0.10	3.000	0	107	80	120			
Surr: 1,2-Dichloroethane-d4	0.53		0.5000		105	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		103	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130			
Surr: Toluene-d8	0.49		0.5000		98.4	70	130			

Sample ID: 2007e37-022ams	SampType: MS4 TestCode: EPA Method 8260							tiles Short	List	
Client ID: AH-24 Surface	Batcl	h ID: <b>54</b> 0	045	F	RunNo: 7	0747				
Prep Date: 7/29/2020	Analysis D	Date: <b>7/</b>	31/2020	8	SeqNo: 2	462221	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	0.9872	0	101	71.1	115			
Toluene	1.0	0.049	0.9872	0	103	79.6	132			
Ethylbenzene	1.1	0.049	0.9872	0	106	83.8	134			
Xylenes, Total	3.3	0.099	2.962	0	111	82.4	132			
Surr: 1,2-Dichloroethane-d4	0.48		0.4936		96.8	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.4936		97.0	70	130			
Surr: Dibromofluoromethane	0.53		0.4936		108	70	130			
Surr: Toluene-d8	0.49		0.4936		98.8	70	130			

Sample ID: 2007e37-022amsd	SampT	SampType: MSD4 TestCode: EPA Method 8260B:						iles Short	List	
Client ID: AH-24 Surface	Batch	n ID: <b>540</b>	045	F	RunNo: <b>7</b> 0	0747				
Prep Date: 7/29/2020	Analysis D	ate: <b>7/</b> 3	31/2020	8	SeqNo: 24	462222	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9497	0	99.6	71.1	115	4.82	20	
Toluene	1.0	0.047	0.9497	0	109	79.6	132	1.94	20	
Ethylbenzene	1.1	0.047	0.9497	0	111	83.8	134	0.766	20	
Xylenes, Total	3.4	0.095	2.849	0	118	82.4	132	2.81	20	
Surr: 1,2-Dichloroethane-d4	0.48		0.4748		101	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.48		0.4748		101	70	130	0	0	
Surr: Dibromofluoromethane	0.50		0.4748		105	70	130	0	0	
Surr: Toluene-d8	0.45		0.4748		95.3	70	130	0	0	

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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# Hall Environmental Analysis Laboratory, Inc.

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WO#: **2007E37** *05-Aug-20* 

Client: Safety & Environmental Solutions
Project: Devon Cotton Draw 181 SWD

Sample ID: mb-54070	SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List					List				
Client ID: PBS	Batch	1D: <b>54</b>	070	F	RunNo: 7	0769				
Prep Date: 7/30/2020	Analysis D	ate: <b>7</b> /	31/2020	S	SeqNo: 2	462806	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		99.5	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.8	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		107	70	130			
Surr: Toluene-d8	0.52		0.5000		104	70	130			
	0.02		0.0000							
Sample ID: Ics-54070		ype: <b>LC</b>		Tes			8260B: Volat	iles Short	List	
	SampT	ype: <b>LC</b>	:S4			PA Method		iles Short	List	
Sample ID: Ics-54070	SampT	n ID: <b>54</b>	CS4 070	F	tCode: El	PA Method 0769			List	
Sample ID: Ics-54070 Client ID: BatchQC	SampT Batch	n ID: <b>54</b>	31/2020	F	tCode: El	PA Method 0769	8260B: Volat		<b>List</b> RPDLimit	Qual
Sample ID: Ics-54070 Client ID: BatchQC Prep Date: 7/30/2020	SampT Batch Analysis D	n ID: <b>54</b> Pate: <b>7</b> /	31/2020	F	tCode: El RunNo: 7 SeqNo: 2	PA Method 0769 462807	8260B: Volat	;		Qual
Sample ID: Ics-54070 Client ID: BatchQC Prep Date: 7/30/2020 Analyte	SampT Batch Analysis D Result	n ID: <b>54</b> Pate: <b>7</b> /	SS4 070 31/2020 SPK value	F	tCode: El RunNo: 7 SeqNo: 2 %REC	PA Method 0769 462807 LowLimit	8260B: Volat Units: %Red HighLimit	;		Qual

Sample ID: mb1	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batch	1D: <b>S7</b>	0775	F	RunNo: 7	0775				
Prep Date:	Analysis D	ate: 8/	1/2020	S	SeqNo: 2	463032	Units: %Rec	:		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		104	70	130			•
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130			
Surr: Dibromofluoromethane	0.55		0.5000		110	70	130			
Surr: Toluene-d8	0.50		0.5000		100	70	130			

97.3

70

130

0.5000

Sample ID: 100ng Ics	SampT	ype: <b>LC</b>	S4	Tes	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: BatchQC	Batcl	n ID: <b>S7</b>	0775	F	RunNo: 7	0775					
Prep Date:	Analysis D	Date: 8/	1/2020	8	SeqNo: 2	463033	Units: %Red	;			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 1,2-Dichloroethane-d4	0.51		0.5000		102	70	130				
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130				
Surr: Dibromofluoromethane	0.53		0.5000		107	70	130				
Surr: Toluene-d8	0.51		0.5000		101	70	130				

#### Qualifiers:

Surr: Toluene-d8

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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# Hall Environmental Analysis Laboratory, Inc.

WO#: 2007E37

05-Aug-20

**Client:** Safety & Environmental Solutions **Project:** Devon Cotton Draw 181 SWD

Sample ID: mb-54042 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 54042 RunNo: 70747

Analysis Date: 7/30/2020 SeqNo: 2462229 Prep Date: 7/29/2020 Units: mg/Kg

SPK value SPK Ref Val **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit %RPD Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 480 500.0 96.1 70 130

Sample ID: Ics-54042 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 54042 RunNo: 70747

Prep Date: 7/29/2020 Analysis Date: 7/30/2020 SeqNo: 2462230 Units: mg/Kg

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 5.0 25.00 O 96.3 70 130 Surr: BFB 510 500.0 102 70 130

Sample ID: mb-54045 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 54045 RunNo: 70747

Prep Date: 7/29/2020 Analysis Date: 7/31/2020 SeqNo: 2462278 Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 510 500.0 101 70 130

Sample ID: Ics-54045 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 54045 RunNo: 70747

Prep Date: 7/29/2020 Analysis Date: 7/31/2020 SeqNo: 2462279 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Result PQL LowLimit HighLimit Qual Gasoline Range Organics (GRO) 24 5.0 97.0 70 25.00 130 Surr: BFB 520 500.0 105 70 130

Sample ID: 2007e37-023ams SampType: MS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: AH-24 1ft Batch ID: 54045 RunNo: 70747

Prep Date: 7/29/2020 Analysis Date: 7/31/2020 SeqNo: 2462282 Units: mq/Kq

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 22 4.8 0 49.2 24.25 92.0 122 Surr: BFB 490 485.0 101 70 130

TestCode: EPA Method 8015D Mod: Gasoline Range Sample ID: 2007e37-023amsd SampType: MSD

Client ID: AH-24 1ft Batch ID: 54045 RunNo: 70747

Prep Date: 7/29/2020 Analysis Date: 7/31/2020 SeqNo: 2462283 Units: mg/Kg

PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 42 of 43

## Hall Environmental Analysis Laboratory, Inc.

520

2007E37 05-Aug-20

WO#:

Client: Safety & Environmental Solutions
Project: Devon Cotton Draw 181 SWD

Sample ID: 2007e37-023amsd SampType: MSD TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: AH-24 1ft Batch ID: 54045 RunNo: 70747 Prep Date: 7/29/2020 Analysis Date: 7/31/2020 SeqNo: 2462283 Units: mq/Kq PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual Gasoline Range Organics (GRO) 23 5.0 24.90 Λ 92.7 49.2 122 3.39 20 Surr: BFB 500 498.0 101 130 0

Sample ID: mb-54070 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: PBS Batch ID: 54070 RunNo: 70769 Prep Date: 7/30/2020 Analysis Date: 7/31/2020 SeqNo: 2462847 Units: %Rec Analyte Result POI SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

130

500.0

Sample ID: Ics-54070 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: LCSS Batch ID: 54070 RunNo: 70769 Prep Date: 7/30/2020 Analysis Date: 7/31/2020 SeaNo: 2462848 Units: %Rec Analyte SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual LowLimit 500.0 103 70 Surr: BFB 520 130

Sample ID: mb1 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: Batch ID: G70775 RunNo: 70775 Prep Date: Analysis Date: 8/1/2020 SeqNo: 2463070 Units: %Rec %RPD PQL SPK value SPK Ref Val %REC **RPDLimit** Analyte Result LowLimit HighLimit Qual Surr: BFB 510 500.0 103 70 130

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: LCSS Batch ID: **G70775** RunNo: 70775 Prep Date: Analysis Date: 8/1/2020 SeqNo: 2463071 Units: %Rec Analyte SPK value SPK Ref Val %REC %RPD **RPDLimit** Result PQL LowLimit HighLimit Qual Surr: BFB 500 500.0 99.7 70 130

#### Qualifiers:

Surr: BFB

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

# Sample Log-In Check List

Client Name:	Safety & Environmental Solutions	Work Order Num	nber: 2007E37		RcptNo:	1
Received By:	Cheyenne Cason	7/29/2020 9:30:00	AM			
Completed By:	Juan Rojas	7/29/2020 9;55:50	AM	Hansy		
Reviewed By:	AR	7/29/20				
Chain of Cus	stody					
1. Is Chain of C	ustody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the	sample delivered?		<u>Courier</u>			
<u>Log In</u>			_		_	
<ol><li>Was an attern</li></ol>	npt made to cool the sample	s?	Yes 🗸	No 🗌	na 🗌	
4. Were all samp	ples received at a temperatu	re of >0° C to 6.0°C	Yes 🔽	No 🗆	NA 🗆	
5. Sample(s) in	proper container(s)?		Yes 🗸	No 🗆		
6. Sufficient sam	ple volume for indicated tes	t(s)?	Yes 🗹	No 🗌		
7. Are samples (	except VOA and ONG) prop	erly preserved?	Yes 🗹	No 🗌		
8. Was preserva	tive added to bottles?		Yes 🗌	No 🗹	NA $\square$	
9. Received at le	ast 1 vial with headspace <	!/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any san	nple containers received bro	ken?	Yes 🗆	No ₩	# of preserved	
	ork match bottle labels?		Yes 🗹	No 🗆	bottles checked for pH:	
	nncies on chain of custody)					2 unless noted)
	correctly identified on Chain	of Custody?	Yes 🗹	No 🗀	Adjusted?	<del></del> -
	analyses were requested?		Yes 🗹	No 📙		11-1
	ng times able to be met? ustomer for authorization.)		Yes 🗹	No 📙	Checked by:	7 + 29,
Special Handli	ing (if applicable)					
15. Was client not	tified of all discrepancies wit	h this order?	Yes 🗌	No 🗌	NA 🗹	
Person I	Notified:	Date				
By Who	m:	Via:	eMail F	Phone  Fax	In Person	
Regardii	ng:					
Client In	structions:			etereenun	· · · · · · · · · · · · · · · · · · ·	
16. Additional ren	narks:		<u> </u>			
17. <u>Cooler Inforr</u>		The state of the s				
Coaler No		Seal Intact   Seal No	Seal Date	Signed By		
2	3.9 Good 2.3 Good					
3	4.9 Good					

Client: State of Custody Record	Turn-Around Time:	den		HA	HALL ENV	ENVIRONMEN		RONMEN.	MER	TAL TOBY	•	Received by
<u> </u>	0	Dws 181		\$	www.hallenvironmental.com	environ	w	Lcom	<b>§</b>	5	_	OCD:
Malling Address: 705 C. C. Nrow		202	4901	4901 Hawkins NE	- H	Albuqu	erque	Albuquerque, NM 87109	7109			11/1
NONDE N.W. 88240	1-7	7.7	Tel.	Tel. 505-345-3975	-3975	Fax	505-3	505-345-4107	7(			17/20
Phone #: 575 - 347-0510	UCV-10-01	_ 1	•		Ā	Analysis	Request	est				022 :
email or Fax#:	Project Manager:		(0)			⁵OS		(jue				9:42
age:	- 1200 -	و م	JW /		CIAIIC	• ° <sup>†</sup> O•		esdA				:27 A
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Accreditation:	Sampier: S SC YC	S ON E	1/0	1.40		ON		Pres Ds				
□ EDD (Type)	olers: 🥰		<b>д</b> е)	g po				) шл				
	Cooler Temp(including cr);	(C) (C)	12D	leth				ojilo				
Date Time Matrix Comple Name	Container Preservative	HEAL No.	\ XЭТі 08:НЧ Ч 180	N) 80	AHS E	31, F, 1 260 (/	S) 07S	otal C				
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8724 0915 5 dtf 5 Sujum		-C005										
1 0935 S AH-6 H-SONA		200 C										
The Part		-007										
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	Received by: Via:	Date Time	12	) a V +1	770	) 2					8	ige 9.
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If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report	ibcontracted to other accredited laboratories	. This serves as notice of this	possibility. Any	sub-contrac	ted data w	ill be clear	ly notated	d on the a	ınalytical n	eport.		104

Received by OCD: 11/17/2002	9:42:27 AM	Page 96 of 104
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	EDB (Method 504.1) PAHs by 8310 or 8270SIMS CI, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> 8260 (VOA) Total Coliform (Present/Absent) Total Coliform (Present/Absent)	
4901 Har	8081 Pesticides/8082 PCB's	Remarks: 3, 9 t y y y y y y y y y y y y y y y y y y
4 1	(S08) 8'MMT   BTEX   WE'S (8021)   PTEX   MTBE   TPH:8015D(GRO   DRO   MRO)	Sesibility Sesibility
Turn-Around Time: 5der  Standard   Rush Project Name: Pevow (8/5w) Project #:	Project Manager: SSD  Sampler: Strong Manager: Sect Range (CD)  Cooler Templine Chi: Sect Range (CD)  Container Preservative HEAL No.  Type and # Type 7 0 0 7 6 7 8 7	
Client: Shirty + College Record  Client: Shirty + College Record  Solvering - College Property  Mailing Address: 703 C. Chinten  Phone #: 575-547-0570	r Fax#: Package: dard	1700 S MH-13 Surface (220 S MH-14 Surface (220 S MH-16 Surface (370 S MH-19 Surface (370 S MH-19 Surface (370 S MH-19 Surface (370 S MH-11 Surface (370 S MH-21 Surface (375 S MH-21 S MH-21 Surface (375 S MH-21 S MH-

Chain-of-Custody Record	9	d Time:	day			HALL ENVI ANALYSIS	L E	VVI SIS	<u>8</u> 8	HALL ENVIRONMENT ANALYSIS LABORATO	ATO	TAL TORY	Received by O
Mailing Address: 703 6. Clus	Project Name	JOHNAN	181 Swid	49(	www.h; 4901 Hawkins NE	www.l		ironme uquer	ental.c que, N	allenvironmental.com - Albuquerque, NM 87109			OCD: 11/
1 1 8240 Phone #: 575-397-0510	Project #:	V-20-077	33	Tei.	i. 505-3	505-345-3975		Fax 50 ysis Re	505-345-4107 Request	-4107			17/2022
#: <b>(</b>	Project	Manager: 35B			s,ac	SM	*OS '*C		(tnesd/				9:42:27
LPStandard □ Level 4 (Full Validation) Accreditation: □ Az Compliance □ NELAC □ Other	Sample		NoN			S0728 10				10		<del> </del>	AM
□ EDD (Type)	# of Coolers:					310				pr			
Date Time Matrix Samula Namo	Cooler Temp(including ch); S	) g	Remark (°C) HEAL No.	TEX / MT	itee1 180 DB (Meth	8 yd sHA	CRA 8 M	AOV) 092	mə2) 072 	OK/P			
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If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report	be subcontracted to other	accredited laboratories.	This serves as notice of this	oossibility. A	ny sub-cor	tracted da	ta will be	slearly no	tated on	the analytic	al report.		104

of New Mexico Page 98 of 104

Incident ID	NAB1530234949
District RP	
Facility ID	
Application ID	

# Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

☐ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODG	C District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and replaced to the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification with 19.15.29.13 NMAC including notificat	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.
Printed Name: Dale Woodall	Title: Env. Professional
Signature: Dals Woodall	Date:11/17/2022
email: <u>dale.woodall@dvn.com</u>	Telephone:575-748-1838
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

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Incident ID	NAB1626756642
District RP	
Facility ID	
Application ID	

# Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and relibuman health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
Printed Name: Dale Woodall	Title: Env. Professional
Signature: Dals Woodall	Date:11/17/2022
email: dale.woodall@dvn.com	Telephone: 575-748-1838
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by:	Date:
Printed Name:	Title:

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	1 1180 200 0) 1
Incident ID	NOY1701331626
District RP	
Facility ID	
Application ID	

# Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and relibuman health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
Printed Name: Dale Woodall	Title: Env. Professional
Signature: Dals Woodall	Date:11/17/2022
email: dale.woodall@dvn.com	Telephone: 575-748-1838
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by:	Date:
Printed Name:	Title:

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Incident ID	NAB1726355760
District RP	
Facility ID	
Application ID	

# Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

☐ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
Printed Name: Dale Woodall	Title: Env. Professional
Signature: Dals Woodall	Date: <u>11/17/2022</u>
email:dale.woodall@dvn.com	Telephone: 575-748-1838
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

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Incident ID	NRM2003439614
District RP	
Facility ID	
Application ID	

# Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and relibuman health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
Printed Name:Dale Woodall	Title: Env. Professional
Signature: Dals Woodall	Date:11/17/2022
email: dale.woodall@dvn.com	Telephone: 575-748-1838
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by:	Date:
Printed Name:	Title:

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Incident ID	NRM2008733329
District RP	
Facility ID	
Application ID	

# Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and relibuman health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
Printed Name:Dale Woodall	Title: Env. Professional
Signature: Dals Woodall	Date:11/17/2022
email: dale.woodall@dvn.com	Telephone: 575-748-1838
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by:	Date:
Printed Name:	Title:

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 159670

### **CONDITIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	159670
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	2/8/2023