Devon Energy Production Company
Cotton Draw Unit #254

Closure Report
U/L N, Section 01, T25S, R31E
Eddy County, New Mexico
NAB1912056434
2RP-5382

October 13, 2020

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
Tom Bynum	Devon Energy	580-748-1613	Tom.Bynum@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 #254 concerning a 14.775 bbls crude oil release on the South side of the location. According to the C-141, a back pressure valve got washed out on the well head causing a spill. The valve issue was resolved and a vacuum truck recovered 9.775 bbls of oil. This site is situated in Eddy County, Section 1, Township 25S, and Range 31E.

SESI personnel performed an assessment of the site in February of 2020 based on generator knowledge of the leak location. SESI personnel mapped the leak and performed delineation.

Surface and Ground Water

Based on the NMOCD Oil and Gas map included in this report, surface water, or remnants thereof, do not appear to be within 3000 feet of this release. The New Mexico Office of the State Engineer records indicates the average depth to groundwater for the area to be between 350’ and 375’ 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

On February 17, 2020, SESI personnel performed sampling to determine vertical extent of the release. SESI advanced 2 auger holes within the leak area. An additional sample was taken on the North side of the location as requested by Devon in an area with staining they were concerned about. This sample is included in the lab analysis, but not the summary in this report because it isn’t relevant to this particular release. The samples were properly packaged and preserved and sent to Hall Environmental Laboratories for analyzation. The results of the testing are captured in the summary below:

Devon Energy Cotton Draw #254 Soil Sample Results: Hall Environmental Laboratories 2/17/20									
SAMPLE ID	**Chloride**	**GRO**	**DRO**	**MRO**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**Total BTEX**
AH1 @ SURFACE	ND	ND	**3400**	**2300**	ND	ND	ND	ND	N/A
AH1 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND	N/A
AH1 @ 2'	ND	ND	ND	ND	ND	ND	ND	ND	N/A
AH2 @ SURFACE	**1400**	ND	**110**	**160**	ND	ND	ND	ND	ND
AH2 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND	N/A
AH2 @ 2'	ND	ND	ND	ND	ND	ND	ND	ND	N/A

Based on these results, SESI believed the site to be vertically delineated; however, it was discovered that horizontal delineation would need to be achieved as well. Therefore, in May of 2020, SESI obtained horizontal samples at the four cardinal points. The samples were properly packaged and preserved and sent to Hall Environmental Laboratories for analyzation. The results of the testing are captured in the summary below:

Devon Energy Cotton Draw #254 Soil Sample Results: Hall Environmental Laboratories 5/28/20									
SAMPLE ID	**Chloride**	**GRO**	**DRO**	**MRO**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**Total BTEX**
AH10 NORTH	ND	ND	ND	ND	ND	ND	ND	ND	N/A
AH11 SOUTH	ND	ND	ND	ND	ND	ND	ND	ND	N/A
AH12 EAST	ND	ND	ND	ND	ND	ND	ND	ND	N/A
AH13 WEST	ND	ND	ND	ND	ND	ND	ND	ND	N/A

It was determined after reviewing the results of the samples that horizontal extent had also been achieved and remediation could be performed.

Remediation

Based on the findings of the sampling events, SESI, determined the best course of action was to excavate the contaminated soil to a depth of one foot. In July of 2020, approximately 125 yards of contaminated material were removed via shovel and backhoe. The contaminated soil was disposed of in a NMOCD-approved landfill.

During excavation, SESI performed field testing to ensure remediation efforts had been successful; however, the results revealed that the excavation had not quite removed the material to the most stringent standards, so SESI excavated another ½ foot. Therefore, an additional 60 yards of material were excavated and disposed of in a NMOCD approved landfill.

Upon excavation completion, seven confirmation samples were taken to ensure successful remediation efforts had been completed. The samples were properly preserved and packaged then sent to Hall Laboratories for analyzation. The results of the sampling are captured in the table below.

Devon Energy Cotton Draw #254 Soil Sample Results: Hall Environmental Laboratories 7/15/20									
SAMPLE ID	**Chloride**	**GRO**	**DRO**	**MRO**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**Total BTEX**
SP1 @ BOTTOM 1.5'	ND	ND	ND	ND	ND	ND	ND	ND	n/a
SP2 @ BOTTOM 1.5'	ND	ND	ND	ND	ND	ND	ND	ND	n/a
SP3 @ BOTTOM 1.5'	ND	ND	ND	ND	ND	ND	ND	ND	n/a
EAST WALL	ND	ND	ND	ND	ND	ND	ND	ND	n/a
NORTH WALL	**110**	ND	ND	ND	ND	ND	ND	ND	n/a
SOUTH WALL	**110**	ND	ND	ND	ND	ND	ND	ND	n/a
WEST WALL	**110**	ND	ND	ND	ND	ND	ND	ND	n/a

Once sample results verified successful remediation had been achieved, the site was backfilled with clean soil. Pictures of the remediation are included in this report.

Closure Request

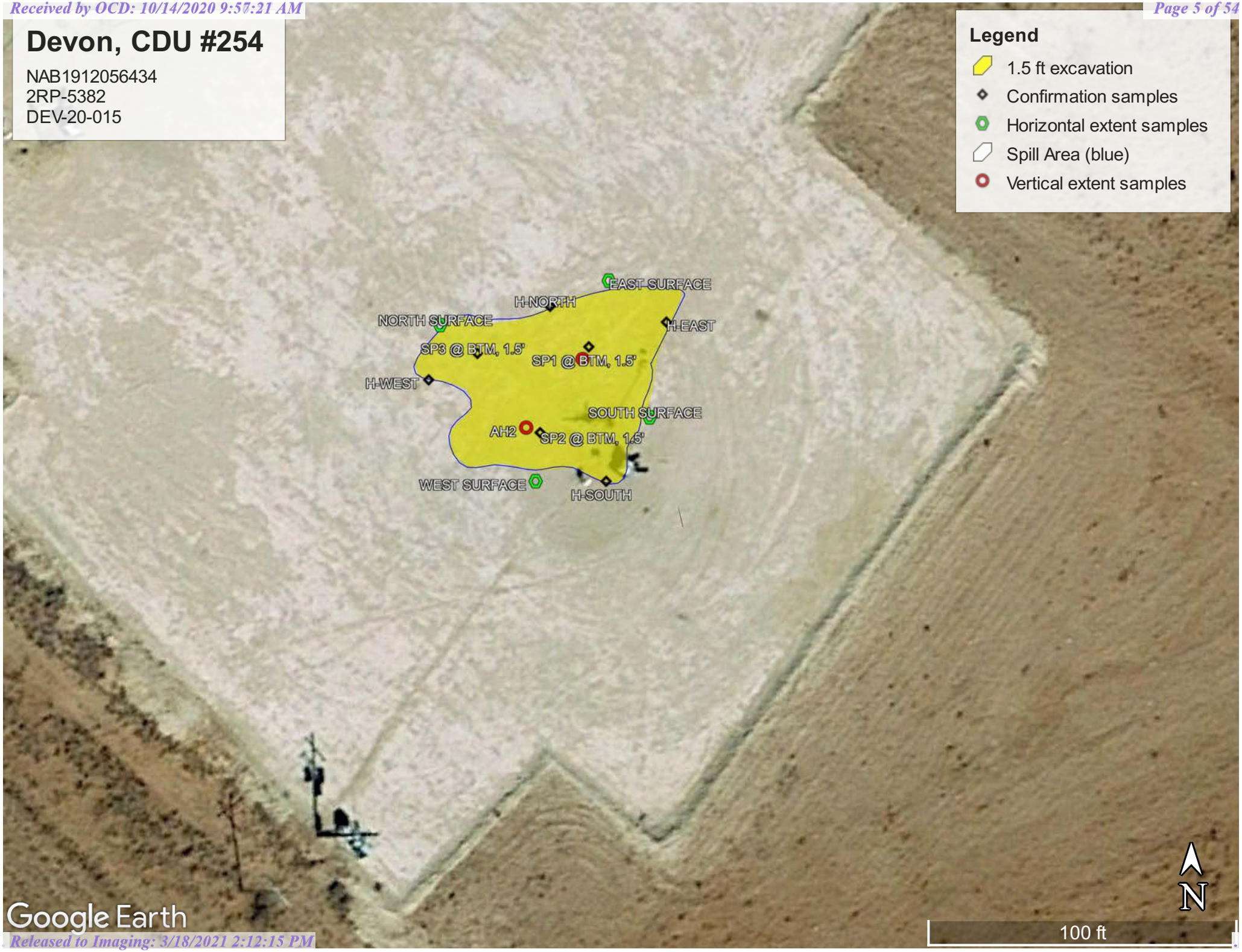
Based on the confirmation sample results, SESI believes the release area to be properly remediated according to the closure criteria set forth in Table I of the Spill Rule 19.15.29 NMAC. Therefore, SESI, on behalf of Devon respectfully requests closure of this release. Supplemental information has been included in this report to support our closure request.

Supplemental Documentation for Closure

Map of Release with sample locations
Photos of remediation
NMOCD Oil and Gas Map
BLM Cave Karst Map
FEMA Floodplain Map
Laboratory Analysis
C-141, pages 3-6

Devon, CDU #254

NAB1912056434
2RP-5382
DEV-20-015



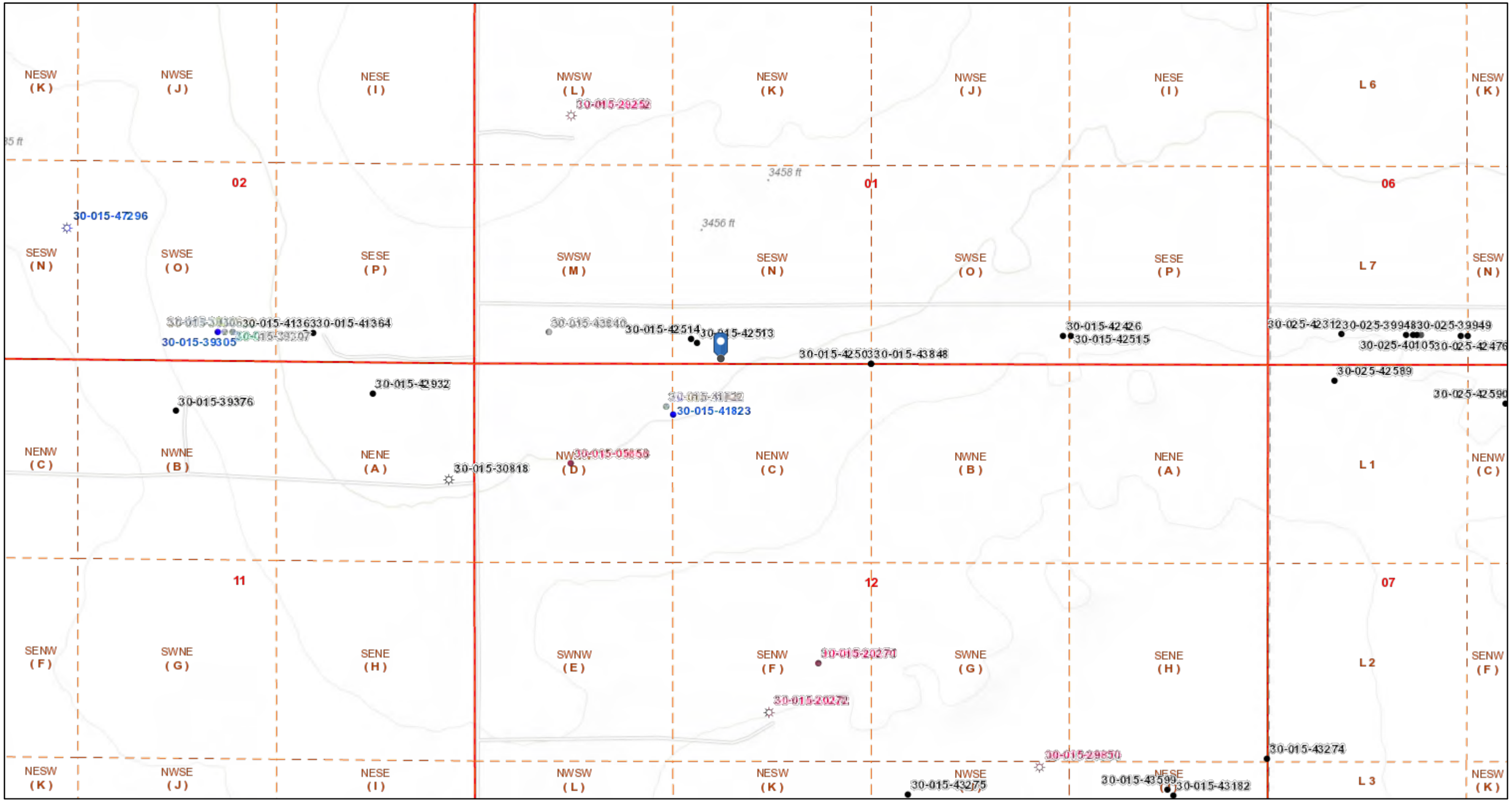

Local:Jul 16, 2020 at 9:29:03 AM MDT
+32.152280,-103.734790
167° S
Altitude:1053.8meter
Speed:5.1km/h


Local:Jul 16, 2020 at 9:29:27 AM MDT
+32.152209,-103.734872
76° E
Altitude:1054.4meter
Speed:2.8km/h


Local:Jul 16, 2020 at 9:28:45 AM MDT
+32.152285,-103.734661
206° SE
Altitude:1054.1meter
Speed:1.9km/h


Local:Jul 16, 2020 at 9:29:18 AM MDT
+32.152209,-103.734872
128° SE
Altitude:1054.4meter
Speed:2.8km/h

Devon, CDU #254



10/13/2020, 10:31:48 AM

Wells - Large Scale

- undefined
- Miscellaneous
- CO2, Active
- CO2, Cancelled
- CO2, New
- CO2, Plugged
- CO2, Temporarily Abandoned
- Gas, Active
- Gas, Cancelled
- Gas, New
- Gas, Plugged
- Gas, Temporarily Abandoned
- Injection, Active
- Injection, Cancelled
- Injection, New
- Injection, Plugged
- Injection, Temporarily Abandoned
- Oil, Active
- Oil, Cancelled
- Oil, New
- Oil, Plugged
- Oil, Temporarily Abandoned
- Salt Water Injection, Active
- Salt Water Injection, Cancelled
- Salt Water Injection, New
- Salt Water Injection, Plugged
- Salt Water Injection, Temporarily Abandoned
- Water, Active
- Water, Cancelled
- Water, New

1:9,028

0 0.07 0.15 0.3 mi

0 0.15 0.3 0.6 km

Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI,

Devon, CDU #254

NAB1912056434
2RP-5382
DEV-20-015

Legend

- 1.5 ft excavation
- Confirmation samples
- Horizontal extent samples
- Low potential
- Spill Area (blue)
- Vertical extent samples

Google Earth

N

200 ft

National Flood Hazard Layer FIRMette

FEMA

103°44'24"W 32°9'23"N

103°43'46"W 32°8'53"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/13/2020 at 12:32 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

February 28, 2020

Bob Allen
Safety & Environmental Solutions
PO Box 1613
Hobbs, NM 88241
TEL: (575) 397-0510
FAX (575) 393-4388

RE: Cotton Draw 254 2RP 5382 OrderNo.: 2002914

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 7 sample(s) on 2/21/2020 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2002914**
Date Reported: **2/28/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-1 Surface
Project: Cotton Draw 254 2RP 5382
Collection Date: 2/17/2020 3:05:00 PM
Lab ID: 2002914-001 **Matrix:** SOIL **Received Date:** 2/21/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	2/25/2020 7:50:20 PM	50663
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	3400	160		mg/Kg	20	2/25/2020 10:32:44 PM	50613
Motor Oil Range Organics (MRO)	2300	820		mg/Kg	20	2/25/2020 10:32:44 PM	50613
Surr: DNOP	0	55.1-146	S	%Rec	20	2/25/2020 10:32:44 PM	50613
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	2/25/2020 4:49:17 PM	50588
Surr: BFB	84.1	66.6-105	D	%Rec	5	2/25/2020 4:49:17 PM	50588
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12	D	mg/Kg	5	2/25/2020 4:49:17 PM	50588
Toluene	ND	0.24	D	mg/Kg	5	2/25/2020 4:49:17 PM	50588
Ethylbenzene	ND	0.24	D	mg/Kg	5	2/25/2020 4:49:17 PM	50588
Xylenes, Total	ND	0.48	D	mg/Kg	5	2/25/2020 4:49:17 PM	50588
Surr: 4-Bromofluorobenzene	92.0	80-120	D	%Rec	5	2/25/2020 4:49:17 PM	50588

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

Analytical Report
Lab Order **2002914**
Date Reported: **2/28/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-1 1Ft
Project: Cotton Draw 254 2RP 5382
Collection Date: 2/17/2020 3:10:00 PM
Lab ID: 2002914-002 **Matrix:** SOIL **Received Date:** 2/21/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	2/25/2020 8:52:05 PM	50663
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/25/2020 10:54:25 PM	50613
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/25/2020 10:54:25 PM	50613
Surr: DNOP	99.4	55.1-146		%Rec	1	2/25/2020 10:54:25 PM	50613
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/25/2020 5:12:43 PM	50588
Surr: BFB	82.8	66.6-105		%Rec	1	2/25/2020 5:12:43 PM	50588
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	2/25/2020 5:12:43 PM	50588
Toluene	ND	0.048		mg/Kg	1	2/25/2020 5:12:43 PM	50588
Ethylbenzene	ND	0.048		mg/Kg	1	2/25/2020 5:12:43 PM	50588
Xylenes, Total	ND	0.095		mg/Kg	1	2/25/2020 5:12:43 PM	50588
Surr: 4-Bromofluorobenzene	91.8	80-120		%Rec	1	2/25/2020 5:12:43 PM	50588

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2002914**
Date Reported: **2/28/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-1 2Ft
Project: Cotton Draw 254 2RP 5382
Collection Date: 2/17/2020 3:25:00 PM
Lab ID: 2002914-003 **Matrix:** SOIL **Received Date:** 2/21/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	2/25/2020 9:04:26 PM	50663
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/25/2020 11:16:19 PM	50613
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/25/2020 11:16:19 PM	50613
Surr: DNOP	118	55.1-146		%Rec	1	2/25/2020 11:16:19 PM	50613
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/25/2020 5:36:03 PM	50588
Surr: BFB	83.5	66.6-105		%Rec	1	2/25/2020 5:36:03 PM	50588
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	2/25/2020 5:36:03 PM	50588
Toluene	ND	0.046		mg/Kg	1	2/25/2020 5:36:03 PM	50588
Ethylbenzene	ND	0.046		mg/Kg	1	2/25/2020 5:36:03 PM	50588
Xylenes, Total	ND	0.093		mg/Kg	1	2/25/2020 5:36:03 PM	50588
Surr: 4-Bromofluorobenzene	91.2	80-120		%Rec	1	2/25/2020 5:36:03 PM	50588

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2002914**
Date Reported: **2/28/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-2 Surface
Project: Cotton Draw 254 2RP 5382
Collection Date: 2/17/2020 3:30:00 PM
Lab ID: 2002914-004 **Matrix:** SOIL **Received Date:** 2/21/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	1400	60		mg/Kg	20	2/25/2020 9:16:46 PM	50663
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	110	9.8		mg/Kg	1	2/25/2020 11:38:11 PM	50613
Motor Oil Range Organics (MRO)	160	49		mg/Kg	1	2/25/2020 11:38:11 PM	50613
Surr: DNOP	110	55.1-146		%Rec	1	2/25/2020 11:38:11 PM	50613
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/25/2020 5:59:32 PM	50588
Surr: BFB	84.7	66.6-105		%Rec	1	2/25/2020 5:59:32 PM	50588
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	2/25/2020 5:59:32 PM	50588
Toluene	ND	0.049		mg/Kg	1	2/25/2020 5:59:32 PM	50588
Ethylbenzene	ND	0.049		mg/Kg	1	2/25/2020 5:59:32 PM	50588
Xylenes, Total	ND	0.099		mg/Kg	1	2/25/2020 5:59:32 PM	50588
Surr: 4-Bromofluorobenzene	93.5	80-120		%Rec	1	2/25/2020 5:59:32 PM	50588

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2002914**
Date Reported: **2/28/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-2 1Ft
Project: Cotton Draw 254 2RP 5382
Collection Date: 2/17/2020 3:40:00 PM
Lab ID: 2002914-005 **Matrix:** SOIL **Received Date:** 2/21/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	2/25/2020 9:29:06 PM	50663
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/26/2020 12:00:04 AM	50613
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/26/2020 12:00:04 AM	50613
Surr: DNOP	104	55.1-146		%Rec	1	2/26/2020 12:00:04 AM	50613
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/25/2020 6:23:01 PM	50588
Surr: BFB	83.9	66.6-105		%Rec	1	2/25/2020 6:23:01 PM	50588
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	2/25/2020 6:23:01 PM	50588
Toluene	ND	0.049		mg/Kg	1	2/25/2020 6:23:01 PM	50588
Ethylbenzene	ND	0.049		mg/Kg	1	2/25/2020 6:23:01 PM	50588
Xylenes, Total	ND	0.098		mg/Kg	1	2/25/2020 6:23:01 PM	50588
Surr: 4-Bromofluorobenzene	92.8	80-120		%Rec	1	2/25/2020 6:23:01 PM	50588

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2002914**
Date Reported: **2/28/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-2 2Ft
Project: Cotton Draw 254 2RP 5382
Collection Date: 2/17/2020 3:55:00 PM
Lab ID: 2002914-006 **Matrix:** SOIL **Received Date:** 2/21/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	2/25/2020 9:41:26 PM	50663
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/26/2020 12:21:52 AM	50613
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/26/2020 12:21:52 AM	50613
Surr: DNOP	105	55.1-146		%Rec	1	2/26/2020 12:21:52 AM	50613
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/25/2020 6:46:18 PM	50588
Surr: BFB	83.7	66.6-105		%Rec	1	2/25/2020 6:46:18 PM	50588
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	2/25/2020 6:46:18 PM	50588
Toluene	ND	0.049		mg/Kg	1	2/25/2020 6:46:18 PM	50588
Ethylbenzene	ND	0.049		mg/Kg	1	2/25/2020 6:46:18 PM	50588
Xylenes, Total	ND	0.099		mg/Kg	1	2/25/2020 6:46:18 PM	50588
Surr: 4-Bromofluorobenzene	92.9	80-120		%Rec	1	2/25/2020 6:46:18 PM	50588

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2002914**
Date Reported: **2/28/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-3 Surface
Project: Cotton Draw 254 2RP 5382
Collection Date: 2/17/2020 4:00:00 PM
Lab ID: 2002914-007 **Matrix:** SOIL **Received Date:** 2/21/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	10000	300		mg/Kg	100	2/27/2020 1:51:41 PM	50663
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	4600	86		mg/Kg	10	2/26/2020 12:43:47 AM	50613
Motor Oil Range Organics (MRO)	1900	430		mg/Kg	10	2/26/2020 12:43:47 AM	50613
Surr: DNOP	0	55.1-146	S	%Rec	10	2/26/2020 12:43:47 AM	50613
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	15	4.7		mg/Kg	1	2/25/2020 7:09:41 PM	50588
Surr: BFB	201	66.6-105	S	%Rec	1	2/25/2020 7:09:41 PM	50588
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	2/25/2020 7:09:41 PM	50588
Toluene	ND	0.047		mg/Kg	1	2/25/2020 7:09:41 PM	50588
Ethylbenzene	ND	0.047		mg/Kg	1	2/25/2020 7:09:41 PM	50588
Xylenes, Total	ND	0.093		mg/Kg	1	2/25/2020 7:09:41 PM	50588
Surr: 4-Bromofluorobenzene	96.5	80-120		%Rec	1	2/25/2020 7:09:41 PM	50588

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2002914**

28-Feb-20

Client: Safety & Environmental Solutions

Project: Cotton Draw 254 2RP 5382

Sample ID: **MB-50663** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**

Client ID: **PBS** Batch ID: **50663** RunNo: **66788**

Prep Date: **2/25/2020** Analysis Date: **2/25/2020** SeqNo: **2297154** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-50663** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**

Client ID: **LCSS** Batch ID: **50663** RunNo: **66788**

Prep Date: **2/25/2020** Analysis Date: **2/25/2020** SeqNo: **2297155** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.2	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2002914**

28-Feb-20

Client: Safety & Environmental Solutions

Project: Cotton Draw 254 2RP 5382

Sample ID: **LCS-50613** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **50613** RunNo: **66776**

Prep Date: **2/24/2020** Analysis Date: **2/25/2020** SeqNo: **2295573** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.4	70	130			
Surr: DNOP	4.3		5.000		85.3	55.1	146			

Sample ID: **MB-50613** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **50613** RunNo: **66776**

Prep Date: **2/24/2020** Analysis Date: **2/25/2020** SeqNo: **2295575** Units: **mg/Kg**

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								
Surr: DNOP	10		10.00		102	55.1	146			

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2002914**
28-Feb-20

Client: Safety & Environmental Solutions
Project: Cotton Draw 254 2RP 5382

Sample ID: **mb-50588** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **50588** RunNo: **66771**
Prep Date: **2/21/2020** Analysis Date: **2/25/2020** SeqNo: **2296837** 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	830		1000		83.5	66.6	105			

Sample ID: **lcs-50588** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **50588** RunNo: **66771**
Prep Date: **2/21/2020** Analysis Date: **2/25/2020** SeqNo: **2296838** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.8	80	120			
Surr: BFB	950		1000		94.7	66.6	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 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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2002914**
28-Feb-20

Client: Safety & Environmental Solutions
Project: Cotton Draw 254 2RP 5382

Sample ID: **mb-50588** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **50588** RunNo: **66771**
Prep Date: **2/21/2020** Analysis Date: **2/25/2020** SeqNo: **2296886** 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	0.92		1.000		92.3	80	120			

Sample ID: **LCS-50588** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **50588** RunNo: **66771**
Prep Date: **2/21/2020** Analysis Date: **2/25/2020** SeqNo: **2296887** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.1	80	120			
Toluene	0.96	0.050	1.000	0	95.7	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.6	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.0	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		93.1	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
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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Safety Env Solutions** Work Order Number: **2002914** RcptNo: **1**

ENM 2/21/20

Received By: Juan Rojas **2/21/2020 8:00:00 AM**

Completed By: **Erin Melendrez** **2/21/2020 8:56:33 AM**

Reviewed By: YG 2/21/20

Chain of Custody

1. Is Chain of Custody sufficiently complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	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 broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JR 2/21/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.6	Good				
2	0.1	Good				

Chain-of-Custody Record

Client: SESI

Mailing Address: 703 E. Clinton
Hobbs N.M 88240

Phone #: 575-397-0510

email or Fax#:

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time: 5 day
☒ Standard ☐ Rush

Project Name: Cotton Draw 254
2RP-5382

Project #: DEV-20-015

Project Manager: Aller, Bob

Sampler: [signature]

On Ice: ☑ Yes ☐ No

Sample Temperature: 2.6-0=2.6
0.1-0=0.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 200914	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chlorides				Air Bubbles (Y or N)
02/17	1505	S	AH-1 Surface	1	Ice Only	-001	X		X									X				
	1510	S	AH-1 1ft	1		-002																
	1525	S	AH-1 2ft	1		-003																
	1530	S	AH-2 Surface	1		-004																
	1540	S	AH-2 1ft	1		-005																
	1555	S	AH-2 2ft	1		-006																
02/17	1600	S	AH-3 Surface	1		-007																

Date	Time	Relinquished by:	Received by:	Date	Time
02/19/20	0730	[signature]	[signature]	2/20/20	0730
2/20/20	1900	[signature]	[signature] courier	2/21/20	8:00

Remarks:

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 08, 2020

Bob Allen
Safety & Environmental Solutions
PO Box 1613
Hobbs, NM 88241
TEL: (575) 397-0510
FAX: (575) 393-4388

RE: Devon Cotton Draw 254H 2RP 5382 OrderNo.: 2005D03

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/30/2020 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2005D03**
Date Reported: **6/8/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-10 Surface North
Project: Devon Cotton Draw 254H 2RP 5382
Collection Date: 5/28/2020 12:30:00 PM
Lab ID: 2005D03-001 **Matrix:** SOIL
Received Date: 5/30/2020 8:22:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Chloride	ND	60		mg/Kg	20	6/5/2020 9:09:26 PM	52903
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	5/31/2020 8:11:39 PM	52791
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/31/2020 8:11:39 PM	52791
Surr: DNOP	43.1	55.1-146	S	%Rec	1	5/31/2020 8:11:39 PM	52791
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/1/2020 6:34:23 PM	52788
Surr: BFB	79.4	66.6-105		%Rec	1	6/1/2020 6:34:23 PM	52788
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	6/1/2020 6:34:23 PM	52788
Toluene	ND	0.048		mg/Kg	1	6/1/2020 6:34:23 PM	52788
Ethylbenzene	ND	0.048		mg/Kg	1	6/1/2020 6:34:23 PM	52788
Xylenes, Total	ND	0.097		mg/Kg	1	6/1/2020 6:34:23 PM	52788
Surr: 4-Bromofluorobenzene	92.8	80-120		%Rec	1	6/1/2020 6:34:23 PM	52788

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2005D03**
Date Reported: **6/8/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-11 Surface South
Project: Devon Cotton Draw 254H 2RP 5382
Collection Date: 5/28/2020 12:45:00 PM
Lab ID: 2005D03-002 **Matrix:** SOIL
Received Date: 5/30/2020 8:22:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	6/5/2020 9:21:51 PM	52903
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/31/2020 8:36:09 PM	52791
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/31/2020 8:36:09 PM	52791
Surr: DNOP	35.6	55.1-146	S	%Rec	1	5/31/2020 8:36:09 PM	52791
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/1/2020 6:57:48 PM	52788
Surr: BFB	81.5	66.6-105		%Rec	1	6/1/2020 6:57:48 PM	52788
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/1/2020 6:57:48 PM	52788
Toluene	ND	0.048		mg/Kg	1	6/1/2020 6:57:48 PM	52788
Ethylbenzene	ND	0.048		mg/Kg	1	6/1/2020 6:57:48 PM	52788
Xylenes, Total	ND	0.096		mg/Kg	1	6/1/2020 6:57:48 PM	52788
Surr: 4-Bromofluorobenzene	93.8	80-120		%Rec	1	6/1/2020 6:57:48 PM	52788

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2005D03**
Date Reported: **6/8/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-12 Surface East
Project: Devon Cotton Draw 254H 2RP 5382
Collection Date: 5/28/2020 1:10:00 PM
Lab ID: 2005D03-003 **Matrix:** SOIL
Received Date: 5/30/2020 8:22:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	6/5/2020 9:34:16 PM	52903
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/31/2020 9:00:34 PM	52791
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/31/2020 9:00:34 PM	52791
Surr: DNOP	34.6	55.1-146	S	%Rec	1	5/31/2020 9:00:34 PM	52791
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/1/2020 7:21:18 PM	52788
Surr: BFB	80.8	66.6-105		%Rec	1	6/1/2020 7:21:18 PM	52788
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/1/2020 7:21:18 PM	52788
Toluene	ND	0.049		mg/Kg	1	6/1/2020 7:21:18 PM	52788
Ethylbenzene	ND	0.049		mg/Kg	1	6/1/2020 7:21:18 PM	52788
Xylenes, Total	ND	0.098		mg/Kg	1	6/1/2020 7:21:18 PM	52788
Surr: 4-Bromofluorobenzene	93.4	80-120		%Rec	1	6/1/2020 7:21:18 PM	52788

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2005D03**
Date Reported: **6/8/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-13 Surface West
Project: Devon Cotton Draw 254H 2RP 5382
Collection Date: 5/28/2020 1:35:00 PM
Lab ID: 2005D03-004 **Matrix:** SOIL
Received Date: 5/30/2020 8:22:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	6/5/2020 9:46:40 PM	52903
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/31/2020 9:24:59 PM	52791
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/31/2020 9:24:59 PM	52791
Surr: DNOP	33.5	55.1-146	S	%Rec	1	5/31/2020 9:24:59 PM	52791
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/1/2020 7:44:43 PM	52788
Surr: BFB	80.3	66.6-105		%Rec	1	6/1/2020 7:44:43 PM	52788
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/1/2020 7:44:43 PM	52788
Toluene	ND	0.048		mg/Kg	1	6/1/2020 7:44:43 PM	52788
Ethylbenzene	ND	0.048		mg/Kg	1	6/1/2020 7:44:43 PM	52788
Xylenes, Total	ND	0.097		mg/Kg	1	6/1/2020 7:44:43 PM	52788
Surr: 4-Bromofluorobenzene	91.7	80-120		%Rec	1	6/1/2020 7:44:43 PM	52788

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2005D03**
08-Jun-20

Client: Safety & Environmental Solutions
Project: Devon Cotton Draw 254H 2RP 5382

Sample ID: **MB-52903**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **52903**	RunNo: **69444**							
Prep Date: **6/5/2020**	Analysis Date: **6/5/2020**	SeqNo: **2409023**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-52903**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **52903**	RunNo: **69444**							
Prep Date: **6/5/2020**	Analysis Date: **6/5/2020**	SeqNo: **2409024**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.8	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2005D03**

08-Jun-20

Client: Safety & Environmental Solutions

Project: Devon Cotton Draw 254H 2RP 5382

Sample ID: **LCS-52791** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **52791** RunNo: **69277**

Prep Date: **5/31/2020** Analysis Date: **5/31/2020** SeqNo: **2401817** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	70	130			
Surr: DNOP	3.6		5.000		72.3	55.1	146			

Sample ID: **MB-52791** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **52791** RunNo: **69277**

Prep Date: **5/31/2020** Analysis Date: **5/31/2020** SeqNo: **2401818** Units: **mg/Kg**

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								
Surr: DNOP	8.5		10.00		85.0	55.1	146			

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2005D03**
08-Jun-20

Client: Safety & Environmental Solutions
Project: Devon Cotton Draw 254H 2RP 5382

Sample ID: **mb-52788** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **52788** RunNo: **69307**
Prep Date: **5/31/2020** Analysis Date: **6/1/2020** SeqNo: **2403247** 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	820		1000		82.3	66.6	105			

Sample ID: **lcs-52788** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **52788** RunNo: **69307**
Prep Date: **5/31/2020** Analysis Date: **6/1/2020** SeqNo: **2403248** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	81.6	80	120			
Surr: BFB	890		1000		89.3	66.6	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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2005D03**

08-Jun-20

Client: Safety & Environmental Solutions

Project: Devon Cotton Draw 254H 2RP 5382

Sample ID: **mb-52788**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **52788**	RunNo: **69307**
Prep Date: **5/31/2020**	Analysis Date: **6/1/2020**	SeqNo: **2403285** 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	0.94		1.000		94.3	80	120			

Sample ID: **LCS-52788**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **52788**	RunNo: **69307**
Prep Date: **5/31/2020**	Analysis Date: **6/1/2020**	SeqNo: **2403286** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.0	80	120			
Toluene	0.98	0.050	1.000	0	98.3	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.3	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.4	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.2	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
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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Safety Env Solutions** Work Order Number: **2005D03** RcptNo: 1

Received By: **Isaiah Ortiz** **5/30/2020 8:22:00 AM** I-04

Completed By: **Isaiah Ortiz** **5/30/2020 8:47:11 AM** I-04

Reviewed By: LB 5/30/20

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preserved 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 broken? Yes ☐ No ☑ TO

# of preserved bottles checked for pH: 5/30/20 (<2 or >12 unless noted)
Adjusted?
Checked by:

11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.1	Good	Not Present			

Chain-of-Custody Record

Client: Safety + Environmental Solutions

Mailing Address: 703 E. Clinton Hobbs N.M 88240

Phone #: 575-397-0510

email or Fax#:

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time: 5 Day
☑ Standard ☐ Rush

Project Name: Devon Cotton Draw 254H 2RP-5382

Project #: DEW-20-015

Project Manager: Allen, Bob

Sampler: Son Jung

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 4.1-0 (CF) 4.1 °C (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2005D03	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride
05/28	1230	S	AH-10 Surface North	1	Ice	-001	X	X									X
05/28	1245	S	AH-11 Surface South	1		-002	X	X									X
05/28	1310	S	AH-12 Surface East	1		-003	X	X									X
05/28	1335	S	AH-13 Surface West	1		-004	X	X									X

Remarks:

Date	Time	Relinquished by	Received by	Via	Date	Time
05/29	0800	Son Jung	Chris Green		5/29	1400
5/29	1900	Chris Green		FedEx courier	5/30/20	0822

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 24, 2020

Bob Allen

Safety & Environmental Solutions
PO Box 1613
Hobbs, NM 88241
TEL: (575) 397-0510
FAX (575) 393-4388

RE: Devon Cotton Draw 254 H OrderNo.: 2007966

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 7 sample(s) on 7/18/2020 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
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2007966**
Date Reported: **7/24/2020**

CLIENT: Safety & Environmental Solutions
Client Sample ID: SP-1 1.5ft Bottom
Project: Devon Cotton Draw 254 H
Collection Date: 7/15/2020 10:30:00 AM
Lab ID: 2007966-001 **Matrix:** SOIL
Received Date: 7/18/2020 11:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	59		mg/Kg	20	7/23/2020 6:19:57 PM	53917
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/22/2020 2:34:26 PM	53863
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/22/2020 2:34:26 PM	53863
Surr: DNOP	138	55.1-146		%Rec	1	7/22/2020 2:34:26 PM	53863
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/22/2020 2:11:41 AM	53815
Surr: BFB	94.5	66.6-105		%Rec	1	7/22/2020 2:11:41 AM	53815
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/22/2020 2:11:41 AM	53815
Toluene	ND	0.050		mg/Kg	1	7/22/2020 2:11:41 AM	53815
Ethylbenzene	ND	0.050		mg/Kg	1	7/22/2020 2:11:41 AM	53815
Xylenes, Total	ND	0.099		mg/Kg	1	7/22/2020 2:11:41 AM	53815
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	7/22/2020 2:11:41 AM	53815

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2007966**
Date Reported: **7/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: SP-2 1.5ft Bottom
Project: Devon Cotton Draw 254 H
Collection Date: 7/15/2020 11:05:00 AM
Lab ID: 2007966-002 **Matrix:** SOIL
Received Date: 7/18/2020 11:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	60		mg/Kg	20	7/23/2020 6:32:18 PM	53917
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/22/2020 2:44:36 PM	53863
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/22/2020 2:44:36 PM	53863
Surr: DNOP	138	55.1-146		%Rec	1	7/22/2020 2:44:36 PM	53863
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/22/2020 2:35:12 AM	53815
Surr: BFB	91.1	66.6-105		%Rec	1	7/22/2020 2:35:12 AM	53815
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/22/2020 2:35:12 AM	53815
Toluene	ND	0.050		mg/Kg	1	7/22/2020 2:35:12 AM	53815
Ethylbenzene	ND	0.050		mg/Kg	1	7/22/2020 2:35:12 AM	53815
Xylenes, Total	ND	0.10		mg/Kg	1	7/22/2020 2:35:12 AM	53815
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	7/22/2020 2:35:12 AM	53815

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2007966**
Date Reported: **7/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: SP-3 1.5ft Bottom
Project: Devon Cotton Draw 254 H
Collection Date: 7/15/2020 2:00:00 PM
Lab ID: 2007966-003 **Matrix:** SOIL **Received Date:** 7/18/2020 11:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	ND	60		mg/Kg	20	7/23/2020 6:44:39 PM	53917
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/22/2020 2:54:46 PM	53863
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/22/2020 2:54:46 PM	53863
Surr: DNOP	144	55.1-146		%Rec	1	7/22/2020 2:54:46 PM	53863
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/22/2020 3:22:26 AM	53815
Surr: BFB	93.5	66.6-105		%Rec	1	7/22/2020 3:22:26 AM	53815
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	7/22/2020 3:22:26 AM	53815
Toluene	ND	0.050		mg/Kg	1	7/22/2020 3:22:26 AM	53815
Ethylbenzene	ND	0.050		mg/Kg	1	7/22/2020 3:22:26 AM	53815
Xylenes, Total	ND	0.099		mg/Kg	1	7/22/2020 3:22:26 AM	53815
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/22/2020 3:22:26 AM	53815

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2007966**
Date Reported: **7/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: H-East
Project: Devon Cotton Draw 254 H
Collection Date: 7/15/2020 12:15:00 PM
Lab ID: 2007966-004 **Matrix:** SOIL **Received Date:** 7/18/2020 11:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	61		mg/Kg	20	7/23/2020 6:57:00 PM	53917
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/22/2020 3:04:56 PM	53863
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/22/2020 3:04:56 PM	53863
Surr: DNOP	201	55.1-146	S	%Rec	1	7/22/2020 3:04:56 PM	53863
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/22/2020 3:45:57 AM	53815
Surr: BFB	92.6	66.6-105		%Rec	1	7/22/2020 3:45:57 AM	53815
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/22/2020 3:45:57 AM	53815
Toluene	ND	0.048		mg/Kg	1	7/22/2020 3:45:57 AM	53815
Ethylbenzene	ND	0.048		mg/Kg	1	7/22/2020 3:45:57 AM	53815
Xylenes, Total	ND	0.097		mg/Kg	1	7/22/2020 3:45:57 AM	53815
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/22/2020 3:45:57 AM	53815

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2007966**
Date Reported: **7/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: H-North
Project: Devon Cotton Draw 254 H
Collection Date: 7/15/2020 12:45:00 PM
Lab ID: 2007966-005 **Matrix:** SOIL **Received Date:** 7/18/2020 11:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	110	60		mg/Kg	20	7/23/2020 7:09:20 PM	53917
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/22/2020 3:15:03 PM	53863
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/22/2020 3:15:03 PM	53863
Surr: DNOP	153	55.1-146	S	%Rec	1	7/22/2020 3:15:03 PM	53863
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/22/2020 3:57:46 PM	53815
Surr: BFB	95.5	66.6-105		%Rec	1	7/22/2020 3:57:46 PM	53815
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/22/2020 3:57:46 PM	53815
Toluene	ND	0.050		mg/Kg	1	7/22/2020 3:57:46 PM	53815
Ethylbenzene	ND	0.050		mg/Kg	1	7/22/2020 3:57:46 PM	53815
Xylenes, Total	ND	0.10		mg/Kg	1	7/22/2020 3:57:46 PM	53815
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	7/22/2020 3:57:46 PM	53815

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2007966**
Date Reported: **7/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: H-South
Project: Devon Cotton Draw 254 H
Collection Date: 7/15/2020 1:20:00 PM
Lab ID: 2007966-006 **Matrix:** SOIL **Received Date:** 7/18/2020 11:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	110	60		mg/Kg	20	7/23/2020 7:21:40 PM	53917
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/22/2020 3:25:10 PM	53863
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/22/2020 3:25:10 PM	53863
Surr: DNOP	168	55.1-146	S	%Rec	1	7/22/2020 3:25:10 PM	53863
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/22/2020 5:08:01 PM	53815
Surr: BFB	97.1	66.6-105		%Rec	1	7/22/2020 5:08:01 PM	53815
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	7/22/2020 5:08:01 PM	53815
Toluene	ND	0.050		mg/Kg	1	7/22/2020 5:08:01 PM	53815
Ethylbenzene	ND	0.050		mg/Kg	1	7/22/2020 5:08:01 PM	53815
Xylenes, Total	ND	0.10		mg/Kg	1	7/22/2020 5:08:01 PM	53815
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	7/22/2020 5:08:01 PM	53815

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2007966**
Date Reported: **7/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: H-West
Project: Devon Cotton Draw 254 H
Collection Date: 7/15/2020 1:45:00 PM
Lab ID: 2007966-007 **Matrix:** SOIL **Received Date:** 7/18/2020 11:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	110	60		mg/Kg	20	7/23/2020 7:34:01 PM	53917
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/22/2020 3:35:15 PM	53863
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/22/2020 3:35:15 PM	53863
Surr: DNOP	141	55.1-146		%Rec	1	7/22/2020 3:35:15 PM	53863
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/22/2020 5:31:26 PM	53815
Surr: BFB	97.4	66.6-105		%Rec	1	7/22/2020 5:31:26 PM	53815
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/22/2020 5:31:26 PM	53815
Toluene	ND	0.050		mg/Kg	1	7/22/2020 5:31:26 PM	53815
Ethylbenzene	ND	0.050		mg/Kg	1	7/22/2020 5:31:26 PM	53815
Xylenes, Total	ND	0.10		mg/Kg	1	7/22/2020 5:31:26 PM	53815
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	7/22/2020 5:31:26 PM	53815

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007966**

24-Jul-20

Client: Safety & Environmental Solutions

Project: Devon Cotton Draw 254 H

Sample ID: **MB-53917**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **53917**	RunNo: **70560**
Prep Date: **7/23/2020**	Analysis Date: **7/23/2020**	SeqNo: **2455116** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-53917**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **53917**	RunNo: **70560**
Prep Date: **7/23/2020**	Analysis Date: **7/23/2020**	SeqNo: **2455117** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.6	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007966**

24-Jul-20

Client: Safety & Environmental Solutions

Project: Devon Cotton Draw 254 H

Sample ID: **LCS-53863** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **53863** RunNo: **70516**

Prep Date: **7/21/2020** Analysis Date: **7/22/2020** SeqNo: **2453230** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	63	10	50.00	0	126	70	130			
Surr: DNOP	6.2		5.000		124	55.1	146			

Sample ID: **LCS-53863** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **53863** RunNo: **70513**

Prep Date: **7/21/2020** Analysis Date: **7/22/2020** SeqNo: **2453272** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	70	10	50.00	0	140	70	130			S
Surr: DNOP	7.0		5.000		141	55.1	146			

Sample ID: **MB-53863** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **53863** RunNo: **70513**

Prep Date: **7/21/2020** Analysis Date: **7/22/2020** SeqNo: **2453273** Units: **mg/Kg**

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								
Surr: DNOP	13		10.00		132	55.1	146			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007966**

24-Jul-20

Client: Safety & Environmental Solutions

Project: Devon Cotton Draw 254 H

Sample ID: **mb-53815**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **53815**	RunNo: **70500**
Prep Date: **7/20/2020**	Analysis Date: **7/22/2020**	SeqNo: **2452236** 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	950		1000		95.3	66.6	105			

Sample ID: **lcs-53815**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **53815**	RunNo: **70500**
Prep Date: **7/20/2020**	Analysis Date: **7/22/2020**	SeqNo: **2452237** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	78.9	72.5	106			
Surr: BFB	1100		1000		106	66.6	105			S

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007966**

24-Jul-20

Client: Safety & Environmental Solutions

Project: Devon Cotton Draw 254 H

Sample ID: **mb-53815**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **53815**	RunNo: **70500**
Prep Date: **7/20/2020**	Analysis Date: **7/22/2020**	SeqNo: **2452266** 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	1.0		1.000		103	80	120			

Sample ID: **LCS-53815**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **53815**	RunNo: **70500**
Prep Date: **7/20/2020**	Analysis Date: **7/22/2020**	SeqNo: **2452267** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.5	80	120			
Toluene	0.94	0.050	1.000	0	93.9	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.5	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.3	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	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
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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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 Number: **2007966** RcptNo: **1**

Received By: **Leah Baca** **7/18/2020 11:05:00 AM** Leah Baca

Completed By: **Leah Baca** **7/18/2020 1:15:15 PM** Leah Baca

Reviewed By: DF 7/19/2020

labeled by 07/19/2020

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? 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 broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.0	Good				
2	5.2	Good				

Chain-of-Custody Record

Client: Safety & Environmental Solutions

Mailing Address: 703 E. Clinton Hobbs N.M 88240

Phone #: 575-397-0510

email or Fax#:

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 5 Day
☑ Standard ☐ Rush

Project Name: Devon Cotton Draw 254H

Project #: DEV-20-015

Project Manager: Allen, Bob

Sampler: Son Jay

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 5.0 / 5.2 + 0.0 = 5.0 / 5.2 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2007966	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride
07/15	1030	S	SP-1 1.5ft Bottom	1	Ice	-001	X	X									X
	1105	S	SP-2 1.5ft Bottom	1		-002											
	1400	S	SP-3 1.5ft Bottom	1		-003											
	1215	S	H-EAST	1		-004											
	1245	S	H-NORTH	1		-005											
	1320	S	H-SOUTH	1		-006											
07/15	1345	S	H-WEST	1		-007	X	X									X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
07/17	0800	Son Jay				
7/17/20	1100	Cummings	Leah	Courier	7/18/20	1105

Remarks:

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.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141 State of New Mexico
Page 4 Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: Tom Bynum Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: Tom Bynum Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Form C-141 State of New Mexico
Page 6 Oil Conservation Division

Incident ID	
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 of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: Tom Bynum Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Form C-141 State of New Mexico
Page 6 Oil Conservation Division

Incident ID	
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 of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: Tom Bynum Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Robert Hamlet Date: 3/18/2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Robert Hamlet Date: 3/18/2021

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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
District IV
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 10626

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
SAFETY & ENVIRONMENTAL SOLUTIO PO Box 1613 703 E Clinton Hobbs, NM88240	329088	10626	C-141

OCD Reviewer	Condition
rhamlet	We have received your closure report and final C-141 for Incident #NAB1912056434 COTTON DRAW UNIT #254H, thank you. This closure is approved.