

**DEVON ENERGY**  
**Cotton Draw Unit #154H**

**Remediation/Closure Plan**

(Performed under the most stringent criteria from 19.15.29 NMAC)

**U/L O, Section 34, T24S, R31E**  
**Eddy County, New Mexico**

**NAB1814139729; 2RP-4759**

**September 3, 2020**



**Prepared for:**

**Devon Energy**  
**6488 Seven Rivers Hwy**  
**Artesia, NM 88210**

**By:**

**Safety & Environmental Solutions, Inc.**  
**703 East Clinton**  
**Hobbs, New Mexico 88240**  
**(575) 397-0510**

## Company Contacts

Representative	Company	Telephone	E-mail
Tom Bynum	Devon Energy	580-748-1613	<a href="mailto:Tom.Bynum@devon.com">Tom.Bynum@devon.com</a>
Bob Allen	SESI	575-397-0510	<a href="mailto:ballen@sesi-nm.com">ballen@sesi-nm.com</a>

## Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was contracted by Devon Energy to assess a spill at the Cotton Draw Unit #154H. This site is situated in U/L O, Section 34, Township 24S and Range 31E, in Eddy County New Mexico. The contaminated area was mapped at the time of discovery.

According to the C-141 for incident NAB1814139729, a compromised balon check valve caused a discharge line release into the pasture between the location and the road just south of location. The spill did not run onto the road.

## Surface and Ground Water

According to the NMOCD Oil and Gas Map, there is no surface water within 3,000 feet of this location and spill area. Based on the Chevron trend map, depth to groundwater appears to be around 400ft bgs; however, since no groundwater depth sources can be found within a half mile of the spill area, SESI will remediate this spill according to the most stringent criteria established in 19.15.29 NMAC.

## Characterization

The site has been fully delineated according to the NMOCD NMAC 19.15.29 published guidelines. Vertical delineation was established by advancing six auger holes at various locations and depths. Horizontal delineation was achieved during remediation. All vertical samples were conducted at the surface and one foot increments until the most stringent criteria of 600 mg/Kg for chlorides, 100 mg/kg for TPH, 10 mg/kg for Benzene, and 50 mg/kg for BTEX was reached.

## Work Performed, Initial sampling event

On March 26, 2020, SESI personnel gathered samples at six different places within the spill area at the surface and one foot increments. The samples were field tested for TPH and Chloride concentrations then properly packaged, preserved, and transported to Hall Environmental Laboratory. The results of the sampling are detailed below:

<b>Devon Energy</b> <b>Cotton Draw Unit #154H</b> <b>Soil Sample Results: Hall Environmental Laboratory 3/26/20</b>								
<b>SAMPLE ID</b>	<b>Chloride</b>	<b>DRO</b>	<b>MRO</b>	<b>GRO</b>	<b>Benzene</b>	<b>Toluene</b>	<b>Ethyl benzene</b>	<b>Total Xylenes</b>
AH1 @ Surface	<b>3200</b>	<b>100</b>	<b>63</b>	ND	ND	ND	ND	ND
AH1 @ 1'	<b>2000</b>	<b>78</b>	<b>55</b>	ND	ND	ND	ND	ND
AH1 @ 2'	<b>1500</b>	ND	ND	ND	ND	ND	ND	ND
AH1 @ 3'	<b>60</b>	<b>20</b>	ND	ND	ND	ND	ND	ND
AH2 @ Surface	<b>160</b>	<b>320</b>	<b>400</b>	ND	ND	ND	ND	ND
AH2 @ 1'	ND	<b>19</b>	ND	ND	ND	ND	ND	ND
AH3 @ Surface	<b>1500</b>	ND	ND	ND	ND	ND	ND	ND
AH3 @ 1'	<b>160</b>	<b>280</b>	<b>330</b>	ND	ND	ND	ND	ND
AH3 @ 2'	ND	<b>19</b>	ND	ND	ND	ND	ND	ND
AH4 @ Surface	<b>180</b>	<b>310</b>	<b>380</b>	ND	ND	ND	ND	ND
AH4 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND
AH5 @ Surface	<b>1500</b>	ND	ND	ND	ND	ND	ND	ND
AH5 @ 1'	<b>180</b>	<b>330</b>	<b>440</b>	ND	ND	ND	ND	ND
AH5 @ 2'	ND	ND	ND	ND	ND	ND	ND	ND
AH6 @ Surface	<b>170</b>	<b>300</b>	<b>350</b>	ND	ND	ND	ND	ND
AH6 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND

### Action Plan/Remediation

Based on the results of the lab analysis, and lack of depth to groundwater determination, SESI made the decision to remediate this spill to the most stringent closure criteria. Therefore, in April of this year, the area around SP1 was excavated to a depth of 3 feet and the remaining leak area was excavated to a depth of 1.5 feet. A backhoe and shovels were used to remove one hundred and sixty yards of soil which were disposed of in a NMOCD approved landfill.

SESI obtained bottom and sidewall confirmation samples at 12 various locations in and around the excavated area. The samples were properly preserved and sent to Hall Environmental Labs. The results of the sampling analysis are captured in the table below:

<b>Devon Energy</b> <b>Cotton Draw Unit #154H</b> <b>Soil Sample Results: Hall Environmental Laboratory 4/3/20</b>								
SAMPLE ID	Chloride	DRO	MRO	GRO	Benzene	Toluene	Ethyl benzene	Total Xylenes
SP1 @ BTM 3'	ND	ND	ND	ND	ND	ND	ND	ND
SP2 @ BTM 3'	ND	ND	ND	ND	ND	ND	ND	ND
SP3 @ N WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP4 @ W WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP5 @ BTM 1.5'	ND	ND	ND	ND	ND	ND	ND	ND
SP6 @ N WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP7 @ BTM 1.5'	ND	ND	ND	ND	ND	ND	ND	ND
SP8 @ W WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP9 @ W WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP10 @ BTM 1.5'	ND	ND	ND	ND	ND	ND	ND	ND
SP11 @ BTM 1.5'	ND	ND	ND	ND	ND	ND	ND	ND
SP12 @ N WALL	ND	ND	ND	ND	ND	ND	ND	ND

Based on the results of the confirmation bottom, sidewall, and horizontal extent sampling, SESI determined the site had been properly remediated; therefore, clean backfill was placed in the excavated area.

### Closure Request

Based on the evidence presented by the data, SESI and Devon believe this site was properly delineated and remediated according to the most stringent criteria set forth by NMOCD. Therefore, we would like to respectfully request closure approval for this incident (NAB1814139729).

### **Supplemental and Supporting Documentation**

- Evidence Document 1: Map of leak area with sample points and excavation depths
- Evidence Document 2: NMOCD Oil and Gas Topo map
- Evidence Document 3: BLM Cave Karst map showing location in low potential area
- Evidence Document 4: FEMA demonstrating minimal flood hazards for this area
- Evidence Document 5: Laboratory analysis
- Evidence Document 6: Photos of the remediated area prior to backfill
- Evidence Document 7: C-141, pgs. 3-6

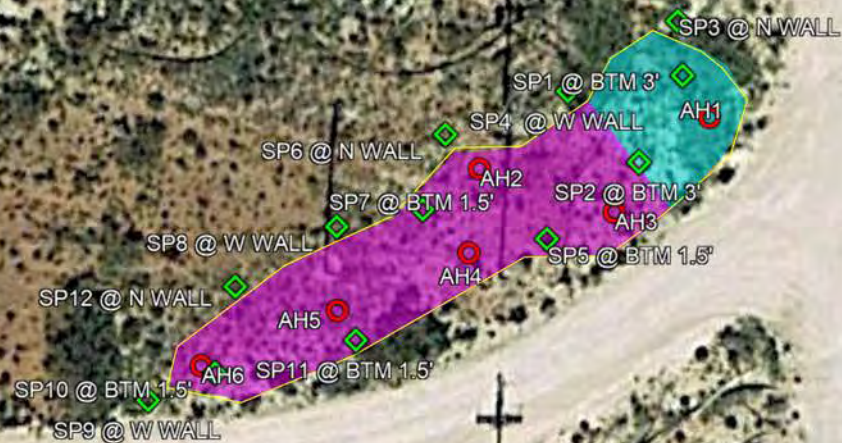


# Devon, Cotton Draw Unit #154H

NAB1814139729  
2RP-4759

## Legend

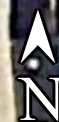
- 1.5' excavation
- 3' excavation
- Confirmation and horizontal extent samples
- SPILL AREA (yellow)
- Vertical extent samples



Google Earth

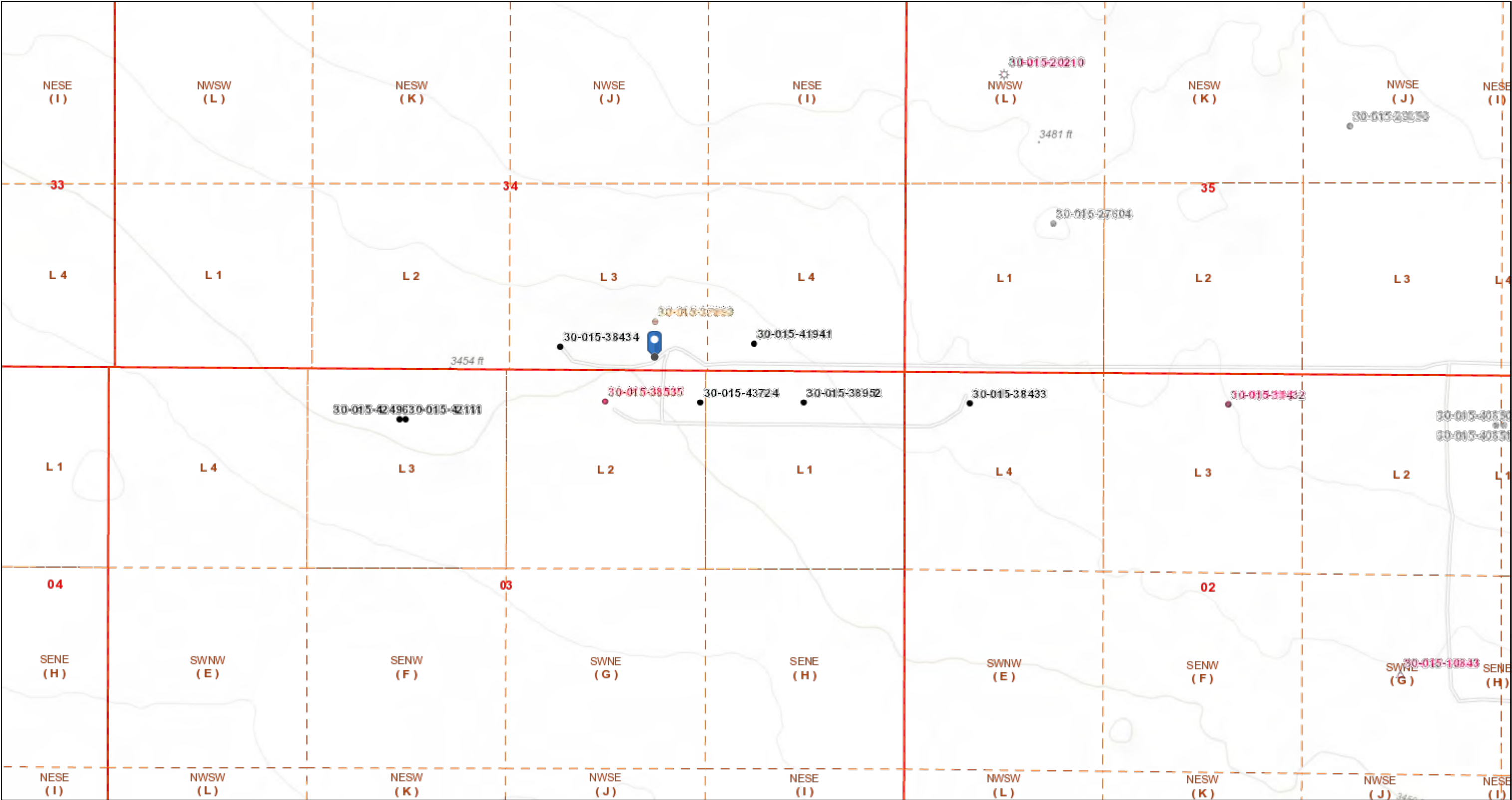
© 2020 Google

100 ft





# Devon, CDU 154H--Topo map with water features



5/13/2020, 2:45:20 PM

- 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, 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

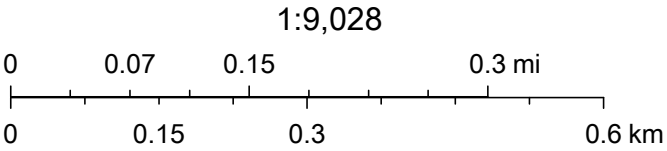
●

 Water, Active

●

 Water, Cancelled

●



 Water, New

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,

# BLM CAVE KARST MAP

Devon, Cotton Draw Unit 154H  
2RP-4759  
NAB1814139729

## Legend

-  Low potential
-  Spill area (yellow)

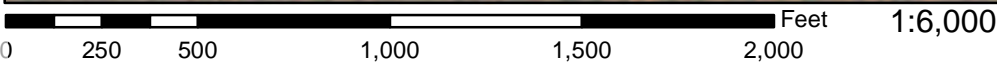




# National Flood Hazard Layer FIRMette



32°10'16.39"N



32°9'45.94"N

## 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
		Area of Minimal Flood Hazard Zone X
OTHER AREAS		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		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
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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 5/13/2020 at 4:08:07 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  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

April 03, 2020

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

RE: Devon Cotton Draw 154 WO#20843059

OrderNo.: 2003C09

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 16 sample(s) on 3/27/2020 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 2003C09

Date Reported: 4/3/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety Env Solutions

Client Sample ID: AH-1 Surface

Project: Devon Cotton Draw 154 WO#20843059

Collection Date: 3/26/2020 10:05:00 AM

Lab ID: 2003C09-001

Matrix: SOIL

Received Date: 3/27/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	3200	150		mg/Kg	50	3/31/2020 5:43:16 PM	51423
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/31/2020 4:40:20 PM	51391
Surr: BFB	93.5	70-130		%Rec	1	3/31/2020 4:40:20 PM	51391
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	100	9.1		mg/Kg	1	3/31/2020 9:34:06 PM	51398
Motor Oil Range Organics (MRO)	63	46		mg/Kg	1	3/31/2020 9:34:06 PM	51398
Surr: DNOP	72.7	55.1-146		%Rec	1	3/31/2020 9:34:06 PM	51398
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	3/31/2020 4:40:20 PM	51391
Toluene	ND	0.049		mg/Kg	1	3/31/2020 4:40:20 PM	51391
Ethylbenzene	ND	0.049		mg/Kg	1	3/31/2020 4:40:20 PM	51391
Xylenes, Total	ND	0.099		mg/Kg	1	3/31/2020 4:40:20 PM	51391
Surr: 1,2-Dichloroethane-d4	97.5	70-130		%Rec	1	3/31/2020 4:40:20 PM	51391
Surr: 4-Bromofluorobenzene	96.4	70-130		%Rec	1	3/31/2020 4:40:20 PM	51391
Surr: Dibromofluoromethane	97.4	70-130		%Rec	1	3/31/2020 4:40:20 PM	51391
Surr: Toluene-d8	106	70-130		%Rec	1	3/31/2020 4:40:20 PM	51391

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2003C09

Date Reported: 4/3/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety Env Solutions

Client Sample ID: AH-1 1ft

Project: Devon Cotton Draw 154 WO#20843059

Collection Date: 3/26/2020 10:15:00 AM

Lab ID: 2003C09-002

Matrix: SOIL

Received Date: 3/27/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	2000	59		mg/Kg	20	3/30/2020 10:27:42 PM	51423
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/31/2020 6:05:56 PM	51391
Surr: BFB	98.4	70-130		%Rec	1	3/31/2020 6:05:56 PM	51391
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	78	9.1		mg/Kg	1	3/31/2020 10:40:31 PM	51398
Motor Oil Range Organics (MRO)	55	46		mg/Kg	1	3/31/2020 10:40:31 PM	51398
Surr: DNOP	77.2	55.1-146		%Rec	1	3/31/2020 10:40:31 PM	51398
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	3/31/2020 6:05:56 PM	51391
Toluene	ND	0.049		mg/Kg	1	3/31/2020 6:05:56 PM	51391
Ethylbenzene	ND	0.049		mg/Kg	1	3/31/2020 6:05:56 PM	51391
Xylenes, Total	ND	0.099		mg/Kg	1	3/31/2020 6:05:56 PM	51391
Surr: 1,2-Dichloroethane-d4	93.4	70-130		%Rec	1	3/31/2020 6:05:56 PM	51391
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	3/31/2020 6:05:56 PM	51391
Surr: Dibromofluoromethane	93.8	70-130		%Rec	1	3/31/2020 6:05:56 PM	51391
Surr: Toluene-d8	107	70-130		%Rec	1	3/31/2020 6:05:56 PM	51391

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



## Analytical Report

Lab Order 2003C09

Date Reported: 4/3/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety Env Solutions

Client Sample ID: AH-1 2ft

Project: Devon Cotton Draw 154 WO#20843059

Collection Date: 3/26/2020 10:30:00 AM

Lab ID: 2003C09-003

Matrix: SOIL

Received Date: 3/27/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	1500	61		mg/Kg	20	3/30/2020 10:40:02 PM	51423
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/31/2020 7:31:27 PM	51391
Surr: BFB	95.3	70-130		%Rec	1	3/31/2020 7:31:27 PM	51391
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/31/2020 11:02:40 PM	51398
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/31/2020 11:02:40 PM	51398
Surr: DNOP	74.1	55.1-146		%Rec	1	3/31/2020 11:02:40 PM	51398
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	3/31/2020 7:31:27 PM	51391
Toluene	ND	0.049		mg/Kg	1	3/31/2020 7:31:27 PM	51391
Ethylbenzene	ND	0.049		mg/Kg	1	3/31/2020 7:31:27 PM	51391
Xylenes, Total	ND	0.098		mg/Kg	1	3/31/2020 7:31:27 PM	51391
Surr: 1,2-Dichloroethane-d4	96.3	70-130		%Rec	1	3/31/2020 7:31:27 PM	51391
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	1	3/31/2020 7:31:27 PM	51391
Surr: Dibromofluoromethane	99.1	70-130		%Rec	1	3/31/2020 7:31:27 PM	51391
Surr: Toluene-d8	104	70-130		%Rec	1	3/31/2020 7:31:27 PM	51391

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2003C09

Date Reported: 4/3/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety Env Solutions

Client Sample ID: AH-1 3ft

Project: Devon Cotton Draw 154 WO#20843059

Collection Date: 3/26/2020 10:40:00 AM

Lab ID: 2003C09-004

Matrix: SOIL

Received Date: 3/27/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	60	60		mg/Kg	20	3/30/2020 10:52:23 PM	51423
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/31/2020 7:59:55 PM	51391
Surr: BFB	97.0	70-130		%Rec	1	3/31/2020 7:59:55 PM	51391
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	20	8.9		mg/Kg	1	3/31/2020 11:24:47 PM	51398
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	3/31/2020 11:24:47 PM	51398
Surr: DNOP	76.7	55.1-146		%Rec	1	3/31/2020 11:24:47 PM	51398
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	3/31/2020 7:59:55 PM	51391
Toluene	ND	0.050		mg/Kg	1	3/31/2020 7:59:55 PM	51391
Ethylbenzene	ND	0.050		mg/Kg	1	3/31/2020 7:59:55 PM	51391
Xylenes, Total	ND	0.099		mg/Kg	1	3/31/2020 7:59:55 PM	51391
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	3/31/2020 7:59:55 PM	51391
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	3/31/2020 7:59:55 PM	51391
Surr: Dibromofluoromethane	95.2	70-130		%Rec	1	3/31/2020 7:59:55 PM	51391
Surr: Toluene-d8	107	70-130		%Rec	1	3/31/2020 7:59:55 PM	51391

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2003C09

Date Reported: 4/3/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety Env Solutions

Client Sample ID: AH-2 Surface

Project: Devon Cotton Draw 154 WO#20843059

Collection Date: 3/26/2020 11:10:00 AM

Lab ID: 2003C09-005

Matrix: SOIL

Received Date: 3/27/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	160	60		mg/Kg	20	3/30/2020 11:04:44 PM	51423
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/31/2020 8:28:22 PM	51391
Surr: BFB	98.0	70-130		%Rec	1	3/31/2020 8:28:22 PM	51391
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	320	46		mg/Kg	5	4/1/2020 6:24:30 PM	51398
Motor Oil Range Organics (MRO)	400	230		mg/Kg	5	4/1/2020 6:24:30 PM	51398
Surr: DNOP	93.4	55.1-146		%Rec	5	4/1/2020 6:24:30 PM	51398
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	3/31/2020 8:28:22 PM	51391
Toluene	ND	0.050		mg/Kg	1	3/31/2020 8:28:22 PM	51391
Ethylbenzene	ND	0.050		mg/Kg	1	3/31/2020 8:28:22 PM	51391
Xylenes, Total	ND	0.10		mg/Kg	1	3/31/2020 8:28:22 PM	51391
Surr: 1,2-Dichloroethane-d4	96.8	70-130		%Rec	1	3/31/2020 8:28:22 PM	51391
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	3/31/2020 8:28:22 PM	51391
Surr: Dibromofluoromethane	99.4	70-130		%Rec	1	3/31/2020 8:28:22 PM	51391
Surr: Toluene-d8	106	70-130		%Rec	1	3/31/2020 8:28:22 PM	51391

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2003C09

Date Reported: 4/3/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety Env Solutions

Client Sample ID: AH-2 1ft

Project: Devon Cotton Draw 154 WO#20843059

Collection Date: 3/26/2020 11:20:00 AM

Lab ID: 2003C09-006

Matrix: SOIL

Received Date: 3/27/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	61		mg/Kg	20	3/30/2020 11:17:05 PM	51423
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/31/2020 8:56:59 PM	51391
Surr: BFB	99.0	70-130		%Rec	1	3/31/2020 8:56:59 PM	51391
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	19	9.1		mg/Kg	1	4/1/2020 12:08:59 AM	51398
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/1/2020 12:08:59 AM	51398
Surr: DNOP	77.3	55.1-146		%Rec	1	4/1/2020 12:08:59 AM	51398
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.024		mg/Kg	1	3/31/2020 8:56:59 PM	51391
Toluene	ND	0.048		mg/Kg	1	3/31/2020 8:56:59 PM	51391
Ethylbenzene	ND	0.048		mg/Kg	1	3/31/2020 8:56:59 PM	51391
Xylenes, Total	ND	0.097		mg/Kg	1	3/31/2020 8:56:59 PM	51391
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	3/31/2020 8:56:59 PM	51391
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	3/31/2020 8:56:59 PM	51391
Surr: Dibromofluoromethane	97.6	70-130		%Rec	1	3/31/2020 8:56:59 PM	51391
Surr: Toluene-d8	103	70-130		%Rec	1	3/31/2020 8:56:59 PM	51391

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



## Analytical Report

Lab Order 2003C09

Date Reported: 4/3/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety Env Solutions

Client Sample ID: AH-3 Surface

Project: Devon Cotton Draw 154 WO#20843059

Collection Date: 3/26/2020 11:30:00 AM

Lab ID: 2003C09-007

Matrix: SOIL

Received Date: 3/27/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	1500	61		mg/Kg	20	3/30/2020 11:29:26 PM	51423
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/31/2020 9:25:25 PM	51391
Surr: BFB	97.2	70-130		%Rec	1	3/31/2020 9:25:25 PM	51391
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	4/1/2020 12:31:03 AM	51398
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/1/2020 12:31:03 AM	51398
Surr: DNOP	77.9	55.1-146		%Rec	1	4/1/2020 12:31:03 AM	51398
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	3/31/2020 9:25:25 PM	51391
Toluene	ND	0.049		mg/Kg	1	3/31/2020 9:25:25 PM	51391
Ethylbenzene	ND	0.049		mg/Kg	1	3/31/2020 9:25:25 PM	51391
Xylenes, Total	ND	0.098		mg/Kg	1	3/31/2020 9:25:25 PM	51391
Surr: 1,2-Dichloroethane-d4	95.2	70-130		%Rec	1	3/31/2020 9:25:25 PM	51391
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	3/31/2020 9:25:25 PM	51391
Surr: Dibromofluoromethane	97.6	70-130		%Rec	1	3/31/2020 9:25:25 PM	51391
Surr: Toluene-d8	108	70-130		%Rec	1	3/31/2020 9:25:25 PM	51391

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2003C09

Date Reported: 4/3/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety Env Solutions

Client Sample ID: AH-3 1ft

Project: Devon Cotton Draw 154 WO#20843059

Collection Date: 3/26/2020 11:45:00 AM

Lab ID: 2003C09-008

Matrix: SOIL

Received Date: 3/27/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	160	60		mg/Kg	20	3/30/2020 11:41:47 PM	51423
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/31/2020 9:53:53 PM	51391
Surr: BFB	96.4	70-130		%Rec	1	3/31/2020 9:53:53 PM	51391
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	280	19		mg/Kg	2	4/1/2020 6:48:58 PM	51398
Motor Oil Range Organics (MRO)	330	97		mg/Kg	2	4/1/2020 6:48:58 PM	51398
Surr: DNOP	107	55.1-146		%Rec	2	4/1/2020 6:48:58 PM	51398
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	3/31/2020 9:53:53 PM	51391
Toluene	ND	0.050		mg/Kg	1	3/31/2020 9:53:53 PM	51391
Ethylbenzene	ND	0.050		mg/Kg	1	3/31/2020 9:53:53 PM	51391
Xylenes, Total	ND	0.10		mg/Kg	1	3/31/2020 9:53:53 PM	51391
Surr: 1,2-Dichloroethane-d4	98.1	70-130		%Rec	1	3/31/2020 9:53:53 PM	51391
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	3/31/2020 9:53:53 PM	51391
Surr: Dibromofluoromethane	99.3	70-130		%Rec	1	3/31/2020 9:53:53 PM	51391
Surr: Toluene-d8	102	70-130		%Rec	1	3/31/2020 9:53:53 PM	51391

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2003C09

Date Reported: 4/3/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety Env Solutions

Client Sample ID: AH-3 2ft

Project: Devon Cotton Draw 154 WO#20843059

Collection Date: 3/26/2020 12:00:00 PM

Lab ID: 2003C09-009

Matrix: SOIL

Received Date: 3/27/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	3/30/2020 11:54:08 PM	51423
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/31/2020 10:22:33 PM	51391
Surr: BFB	98.2	70-130		%Rec	1	3/31/2020 10:22:33 PM	51391
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	19	9.1		mg/Kg	1	4/1/2020 1:15:20 AM	51398
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/1/2020 1:15:20 AM	51398
Surr: DNOP	81.7	55.1-146		%Rec	1	4/1/2020 1:15:20 AM	51398
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	3/31/2020 10:22:33 PM	51391
Toluene	ND	0.049		mg/Kg	1	3/31/2020 10:22:33 PM	51391
Ethylbenzene	ND	0.049		mg/Kg	1	3/31/2020 10:22:33 PM	51391
Xylenes, Total	ND	0.099		mg/Kg	1	3/31/2020 10:22:33 PM	51391
Surr: 1,2-Dichloroethane-d4	92.6	70-130		%Rec	1	3/31/2020 10:22:33 PM	51391
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	3/31/2020 10:22:33 PM	51391
Surr: Dibromofluoromethane	100	70-130		%Rec	1	3/31/2020 10:22:33 PM	51391
Surr: Toluene-d8	108	70-130		%Rec	1	3/31/2020 10:22:33 PM	51391

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2003C09

Date Reported: 4/3/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety Env Solutions

Client Sample ID: AH-4 Surface

Project: Devon Cotton Draw 154 WO#20843059

Collection Date: 3/26/2020 12:10:00 PM

Lab ID: 2003C09-010

Matrix: SOIL

Received Date: 3/27/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	180	60		mg/Kg	20	3/31/2020 12:31:11 AM	51423
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/31/2020 10:51:26 PM	51391
Surr: BFB	99.6	70-130		%Rec	1	3/31/2020 10:51:26 PM	51391
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	310	19		mg/Kg	2	4/1/2020 7:13:19 PM	51398
Motor Oil Range Organics (MRO)	380	96		mg/Kg	2	4/1/2020 7:13:19 PM	51398
Surr: DNOP	108	55.1-146		%Rec	2	4/1/2020 7:13:19 PM	51398
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	3/31/2020 10:51:26 PM	51391
Toluene	ND	0.050		mg/Kg	1	3/31/2020 10:51:26 PM	51391
Ethylbenzene	ND	0.050		mg/Kg	1	3/31/2020 10:51:26 PM	51391
Xylenes, Total	ND	0.099		mg/Kg	1	3/31/2020 10:51:26 PM	51391
Surr: 1,2-Dichloroethane-d4	99.4	70-130		%Rec	1	3/31/2020 10:51:26 PM	51391
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	3/31/2020 10:51:26 PM	51391
Surr: Dibromofluoromethane	103	70-130		%Rec	1	3/31/2020 10:51:26 PM	51391
Surr: Toluene-d8	106	70-130		%Rec	1	3/31/2020 10:51:26 PM	51391

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



## Analytical Report

Lab Order 2003C09

Date Reported: 4/3/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety Env Solutions

Client Sample ID: AH-4 1ft

Project: Devon Cotton Draw 154 WO#20843059

Collection Date: 3/26/2020 12:20:00 PM

Lab ID: 2003C09-011

Matrix: SOIL

Received Date: 3/27/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	59		mg/Kg	20	3/31/2020 12:43:32 AM	51423
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/31/2020 11:20:13 PM	51391
Surr: BFB	96.0	70-130		%Rec	1	3/31/2020 11:20:13 PM	51391
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	4/1/2020 2:21:43 AM	51398
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	4/1/2020 2:21:43 AM	51398
Surr: DNOP	74.7	55.1-146		%Rec	1	4/1/2020 2:21:43 AM	51398
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	3/31/2020 11:20:13 PM	51391
Toluene	ND	0.049		mg/Kg	1	3/31/2020 11:20:13 PM	51391
Ethylbenzene	ND	0.049		mg/Kg	1	3/31/2020 11:20:13 PM	51391
Xylenes, Total	ND	0.099		mg/Kg	1	3/31/2020 11:20:13 PM	51391
Surr: 1,2-Dichloroethane-d4	95.9	70-130		%Rec	1	3/31/2020 11:20:13 PM	51391
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	3/31/2020 11:20:13 PM	51391
Surr: Dibromofluoromethane	100	70-130		%Rec	1	3/31/2020 11:20:13 PM	51391
Surr: Toluene-d8	104	70-130		%Rec	1	3/31/2020 11:20:13 PM	51391

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2003C09

Date Reported: 4/3/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety Env Solutions

Client Sample ID: AH-5 Surface

Project: Devon Cotton Draw 154 WO#20843059

Collection Date: 3/26/2020 12:45:00 PM

Lab ID: 2003C09-012

Matrix: SOIL

Received Date: 3/27/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	1500	60		mg/Kg	20	3/31/2020 12:55:53 AM	51423
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/31/2020 11:48:58 PM	51391
Surr: BFB	98.4	70-130		%Rec	1	3/31/2020 11:48:58 PM	51391
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/1/2020 2:43:43 AM	51398
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/1/2020 2:43:43 AM	51398
Surr: DNOP	75.4	55.1-146		%Rec	1	4/1/2020 2:43:43 AM	51398
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	3/31/2020 11:48:58 PM	51391
Toluene	ND	0.049		mg/Kg	1	3/31/2020 11:48:58 PM	51391
Ethylbenzene	ND	0.049		mg/Kg	1	3/31/2020 11:48:58 PM	51391
Xylenes, Total	ND	0.099		mg/Kg	1	3/31/2020 11:48:58 PM	51391
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	3/31/2020 11:48:58 PM	51391
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	3/31/2020 11:48:58 PM	51391
Surr: Dibromofluoromethane	98.4	70-130		%Rec	1	3/31/2020 11:48:58 PM	51391
Surr: Toluene-d8	105	70-130		%Rec	1	3/31/2020 11:48:58 PM	51391

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2003C09

Date Reported: 4/3/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety Env Solutions

Client Sample ID: AH-5 1ft

Project: Devon Cotton Draw 154 WO#20843059

Collection Date: 3/26/2020 12:55:00 PM

Lab ID: 2003C09-013

Matrix: SOIL

Received Date: 3/27/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	180	60		mg/Kg	20	3/31/2020 1:08:13 AM	51423
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/1/2020 3:39:15 AM	51391
Surr: BFB	96.5	70-130		%Rec	1	4/1/2020 3:39:15 AM	51391
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	330	46		mg/Kg	5	4/1/2020 7:37:52 PM	51398
Motor Oil Range Organics (MRO)	440	230		mg/Kg	5	4/1/2020 7:37:52 PM	51398
Surr: DNOP	91.1	55.1-146		%Rec	5	4/1/2020 7:37:52 PM	51398
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	4/1/2020 3:39:15 AM	51391
Toluene	ND	0.050		mg/Kg	1	4/1/2020 3:39:15 AM	51391
Ethylbenzene	ND	0.050		mg/Kg	1	4/1/2020 3:39:15 AM	51391
Xylenes, Total	ND	0.10		mg/Kg	1	4/1/2020 3:39:15 AM	51391
Surr: 1,2-Dichloroethane-d4	87.4	70-130		%Rec	1	4/1/2020 3:39:15 AM	51391
Surr: 4-Bromofluorobenzene	97.7	70-130		%Rec	1	4/1/2020 3:39:15 AM	51391
Surr: Dibromofluoromethane	94.2	70-130		%Rec	1	4/1/2020 3:39:15 AM	51391
Surr: Toluene-d8	106	70-130		%Rec	1	4/1/2020 3:39:15 AM	51391

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2003C09

Date Reported: 4/3/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety Env Solutions

Client Sample ID: AH-5 2ft

Project: Devon Cotton Draw 154 WO#20843059

Collection Date: 3/26/2020 1:00:00 PM

Lab ID: 2003C09-014

Matrix: SOIL

Received Date: 3/27/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	3/31/2020 1:20:33 AM	51423
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/1/2020 4:08:03 AM	51391
Surr: BFB	98.1	70-130		%Rec	1	4/1/2020 4:08:03 AM	51391
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/1/2020 3:27:55 AM	51398
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	4/1/2020 3:27:55 AM	51398
Surr: DNOP	74.1	55.1-146		%Rec	1	4/1/2020 3:27:55 AM	51398
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	4/1/2020 4:08:03 AM	51391
Toluene	ND	0.049		mg/Kg	1	4/1/2020 4:08:03 AM	51391
Ethylbenzene	ND	0.049		mg/Kg	1	4/1/2020 4:08:03 AM	51391
Xylenes, Total	ND	0.098		mg/Kg	1	4/1/2020 4:08:03 AM	51391
Surr: 1,2-Dichloroethane-d4	99.3	70-130		%Rec	1	4/1/2020 4:08:03 AM	51391
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	4/1/2020 4:08:03 AM	51391
Surr: Dibromofluoromethane	101	70-130		%Rec	1	4/1/2020 4:08:03 AM	51391
Surr: Toluene-d8	112	70-130		%Rec	1	4/1/2020 4:08:03 AM	51391

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



## Analytical Report

Lab Order 2003C09

Date Reported: 4/3/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety Env Solutions

Client Sample ID: AH-6 Surface

Project: Devon Cotton Draw 154 WO#20843059

Collection Date: 3/26/2020 1:15:00 PM

Lab ID: 2003C09-015

Matrix: SOIL

Received Date: 3/27/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	170	60		mg/Kg	20	3/31/2020 1:32:55 AM	51423
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/1/2020 4:36:50 AM	51391
Surr: BFB	96.0	70-130		%Rec	1	4/1/2020 4:36:50 AM	51391
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	300	19		mg/Kg	2	4/1/2020 8:02:06 PM	51398
Motor Oil Range Organics (MRO)	350	94		mg/Kg	2	4/1/2020 8:02:06 PM	51398
Surr: DNOP	106	55.1-146		%Rec	2	4/1/2020 8:02:06 PM	51398
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	4/1/2020 4:36:50 AM	51391
Toluene	ND	0.050		mg/Kg	1	4/1/2020 4:36:50 AM	51391
Ethylbenzene	ND	0.050		mg/Kg	1	4/1/2020 4:36:50 AM	51391
Xylenes, Total	ND	0.099		mg/Kg	1	4/1/2020 4:36:50 AM	51391
Surr: 1,2-Dichloroethane-d4	92.8	70-130		%Rec	1	4/1/2020 4:36:50 AM	51391
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	4/1/2020 4:36:50 AM	51391
Surr: Dibromofluoromethane	98.3	70-130		%Rec	1	4/1/2020 4:36:50 AM	51391
Surr: Toluene-d8	114	70-130		%Rec	1	4/1/2020 4:36:50 AM	51391

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2003C09

Date Reported: 4/3/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety Env Solutions

Client Sample ID: AH-6 1ft

Project: Devon Cotton Draw 154 WO#20843059

Collection Date: 3/26/2020 1:30:00 PM

Lab ID: 2003C09-016

Matrix: SOIL

Received Date: 3/27/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	3/31/2020 1:45:16 AM	51423
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/1/2020 5:05:38 AM	51391
Surr: BFB	96.9	70-130		%Rec	1	4/1/2020 5:05:38 AM	51391
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/1/2020 4:12:09 AM	51398
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/1/2020 4:12:09 AM	51398
Surr: DNOP	77.9	55.1-146		%Rec	1	4/1/2020 4:12:09 AM	51398
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	4/1/2020 5:05:38 AM	51391
Toluene	ND	0.049		mg/Kg	1	4/1/2020 5:05:38 AM	51391
Ethylbenzene	ND	0.049		mg/Kg	1	4/1/2020 5:05:38 AM	51391
Xylenes, Total	ND	0.098		mg/Kg	1	4/1/2020 5:05:38 AM	51391
Surr: 1,2-Dichloroethane-d4	92.2	70-130		%Rec	1	4/1/2020 5:05:38 AM	51391
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	4/1/2020 5:05:38 AM	51391
Surr: Dibromofluoromethane	98.1	70-130		%Rec	1	4/1/2020 5:05:38 AM	51391
Surr: Toluene-d8	108	70-130		%Rec	1	4/1/2020 5:05:38 AM	51391

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2003C09

03-Apr-20

**Client:** Safety Env Solutions**Project:** Devon Cotton Draw 154 WO#20843059

Sample ID: <b>MB-51423</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>51423</b>	RunNo: <b>67715</b>								
Prep Date: <b>3/30/2020</b>	Analysis Date: <b>3/30/2020</b>	SeqNo: <b>2337858</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-51423</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>51423</b>	RunNo: <b>67715</b>								
Prep Date: <b>3/30/2020</b>	Analysis Date: <b>3/30/2020</b>	SeqNo: <b>2337859</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.0	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 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

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2003C09

03-Apr-20

**Client:** Safety Env Solutions**Project:** Devon Cotton Draw 154 WO#20843059

Sample ID: <b>2003C09-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>AH-1 Surface</b>	Batch ID: <b>51398</b>	RunNo: <b>67719</b>								
Prep Date: <b>3/30/2020</b>	Analysis Date: <b>3/31/2020</b>	SeqNo: <b>2338944</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	160	9.3	46.51	101.4	133	47.4	136			
Surr: DNOP	3.5		4.651		74.9	55.1	146			

Sample ID: <b>2003C09-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>AH-1 Surface</b>	Batch ID: <b>51398</b>	RunNo: <b>67719</b>								
Prep Date: <b>3/30/2020</b>	Analysis Date: <b>3/31/2020</b>	SeqNo: <b>2338945</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	140	9.6	48.03	101.4	72.8	47.4	136	17.9	43.4	
Surr: DNOP	3.7		4.803		76.5	55.1	146	0	0	

Sample ID: <b>LCS-51398</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>51398</b>	RunNo: <b>67719</b>								
Prep Date: <b>3/30/2020</b>	Analysis Date: <b>3/31/2020</b>	SeqNo: <b>2338977</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.0	70	130			
Surr: DNOP	2.8		5.000		55.9	55.1	146			

Sample ID: <b>MB-51398</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>51398</b>	RunNo: <b>67719</b>								
Prep Date: <b>3/30/2020</b>	Analysis Date: <b>3/31/2020</b>	SeqNo: <b>2338978</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								
Surr: DNOP	6.4		10.00		64.0	55.1	146			

Sample ID: <b>LCS-51433</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>51433</b>	RunNo: <b>67718</b>								
Prep Date: <b>3/31/2020</b>	Analysis Date: <b>4/2/2020</b>	SeqNo: <b>2340681</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		91.9	55.1	146			

Sample ID: <b>MB-51433</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>51433</b>	RunNo: <b>67718</b>								
Prep Date: <b>3/31/2020</b>	Analysis Date: <b>4/1/2020</b>	SeqNo: <b>2340683</b> Units: <b>%Rec</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

**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

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2003C09

03-Apr-20

**Client:** Safety Env Solutions**Project:** Devon Cotton Draw 154 WO#20843059

Sample ID: <b>MB-51433</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>PBS</b>	Batch ID: <b>51433</b>			RunNo: <b>67718</b>						
Prep Date: <b>3/31/2020</b>	Analysis Date: <b>4/1/2020</b>			SeqNo: <b>2340683</b>	Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.9		10.00		98.6	55.1	146			

Sample ID: <b>LCS-51460</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>51460</b>			RunNo: <b>67718</b>						
Prep Date: <b>3/31/2020</b>	Analysis Date: <b>4/2/2020</b>			SeqNo: <b>2341419</b>	Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		100	55.1	146			

Sample ID: <b>MB-51460</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>PBS</b>	Batch ID: <b>51460</b>			RunNo: <b>67718</b>						
Prep Date: <b>3/31/2020</b>	Analysis Date: <b>4/2/2020</b>			SeqNo: <b>2341420</b>	Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		113	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 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



**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2003C09

03-Apr-20

**Client:** Safety Env Solutions**Project:** Devon Cotton Draw 154 WO#20843059

Sample ID: <b>2003c09-002ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>AH-1 1ft</b>	Batch ID: <b>51391</b>	RunNo: <b>67743</b>								
Prep Date: <b>3/29/2020</b>	Analysis Date: <b>3/31/2020</b>	SeqNo: <b>2339032</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	0.9940	0	97.6	70	130			
Toluene	1.2	0.050	0.9940	0	116	70	130			
Surr: 1,2-Dichloroethane-d4	0.49		0.4970		99.3	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.4970		100	70	130			
Surr: Dibromofluoromethane	0.48		0.4970		95.8	70	130			
Surr: Toluene-d8	0.50		0.4970		100	70	130			

Sample ID: <b>2003c09-002amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>AH-1 1ft</b>	Batch ID: <b>51391</b>	RunNo: <b>67743</b>								
Prep Date: <b>3/29/2020</b>	Analysis Date: <b>3/31/2020</b>	SeqNo: <b>2339033</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	0.9833	0	96.4	70	130	2.29	20	
Toluene	1.0	0.049	0.9833	0	107	70	130	9.54	20	
Surr: 1,2-Dichloroethane-d4	0.48		0.4916		97.1	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.49		0.4916		99.7	70	130	0	0	
Surr: Dibromofluoromethane	0.46		0.4916		93.8	70	130	0	0	
Surr: Toluene-d8	0.49		0.4916		99.3	70	130	0	0	

Sample ID: <b>lcs-51391</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>51391</b>	RunNo: <b>67743</b>								
Prep Date: <b>3/29/2020</b>	Analysis Date: <b>3/31/2020</b>	SeqNo: <b>2339048</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	83.8	70	130			
Toluene	1.1	0.050	1.000	0	108	70	130			
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		90.0	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.3	70	130			
Surr: Dibromofluoromethane	0.44		0.5000		87.9	70	130			
Surr: Toluene-d8	0.55		0.5000		110	70	130			

Sample ID: <b>mb-51391</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>PBS</b>	Batch ID: <b>51391</b>	RunNo: <b>67743</b>								
Prep Date: <b>3/29/2020</b>	Analysis Date: <b>3/31/2020</b>	SeqNo: <b>2339049</b>	Units: <b>mg/Kg</b>							
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								

**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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2003C09

03-Apr-20

**Client:** Safety Env Solutions**Project:** Devon Cotton Draw 154 WO#20843059

Sample ID: <b>mb-51391</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>PBS</b>	Batch ID: <b>51391</b>	RunNo: <b>67743</b>								
Prep Date: <b>3/29/2020</b>	Analysis Date: <b>3/31/2020</b>	SeqNo: <b>2339049</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		93.8	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		101	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		95.7	70	130			
Surr: Toluene-d8	0.53		0.5000		105	70	130			

**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

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2003C09

03-Apr-20

**Client:** Safety Env Solutions**Project:** Devon Cotton Draw 154 WO#20843059

Sample ID: <b>2003c09-001ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>AH-1 Surface</b>	Batch ID: <b>51391</b>	RunNo: <b>67743</b>								
Prep Date: <b>3/29/2020</b>	Analysis Date: <b>3/31/2020</b>	SeqNo: <b>2339053</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.49	0	90.8	70	130			
Surr: BFB	470		489.7		96.1	70	130			

Sample ID: <b>2003c09-001amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>AH-1 Surface</b>	Batch ID: <b>51391</b>	RunNo: <b>67743</b>								
Prep Date: <b>3/29/2020</b>	Analysis Date: <b>3/31/2020</b>	SeqNo: <b>2339054</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.39	0	95.3	70	130	4.47	20	
Surr: BFB	490		487.8		100	70	130	0	0	

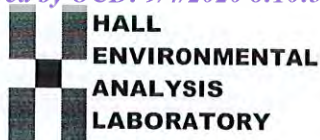
Sample ID: <b>lcs-51391</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>51391</b>	RunNo: <b>67743</b>								
Prep Date: <b>3/29/2020</b>	Analysis Date: <b>3/31/2020</b>	SeqNo: <b>2339074</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.5	70	130			
Surr: BFB	500		500.0		100	70	130			

Sample ID: <b>mb-51391</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>51391</b>	RunNo: <b>67743</b>								
Prep Date: <b>3/29/2020</b>	Analysis Date: <b>3/31/2020</b>	SeqNo: <b>2339075</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	490		500.0		98.0	70	130			

**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



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: **2003C09**RcptNo: **1**Received By: **Juan Rojas**

3/27/2020 8:25:00 AM

*Juan Rojas*Completed By: **Juan Rojas**

3/27/2020 9:20:57 AM

*Juan Rojas*Reviewed By: *LR*

3/27/20

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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:

*TO*  
*3/27/20*

### 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.5	Good				



## Chain-of-Custody Record

Client: Safety & Environmental SolutionsMailing Address: 703 E. CliftonPhone #: 505-397-0510

email or Fax#:

QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ AZ Compliance ☐ NELAC ☐ Other☐ EDD (Type)Turn-Around Time: 5 day Turn  
☒ Standard ☐ RushProject Name: Devon Cotton Draw 154  
WO# 20843059Project #: Dev-20-031Project Manager: Allen, BobSampler: Sen Jerry  
On Ice: ☒ Yes ☐ No# of Coolers: 1Cooler Temp (including CP): 0.5-0.5 (°C)

Container Type and #

Preservative Type

HEAL No.

2003609

-001

-002

-003

-004

-005

-006

-007

-008

-009

-010

-011

-012

-013

-014

-015

-016

-017

-018

-019

-020

-021

Date	Time	Matrix	Sample Name	Relinquished by:	Relinquished Date:
09/26/20	1005	S	AH1 Surface	Sen Jerry	09/26/20 1600
1015	S	AH1 1 ft			
1030	S	AH1 2 ft			
1040	S	AH1 3 ft			
1110	S	AH2 Surface			
1120	S	AH2 1 ft			
1130	S	AH3 Surface			
1145	S	AH3 1 ft			
1200	S	AH3 2 ft			
1210	S	AH4 Surface			
1220	S	AH4 1 ft			
09/26/20	1600	S	AH4 1 ft	Sen Jerry	09/26/20 1900



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

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 <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
X	X	X	X	X	X	X	X	X	X

Remarks:

Bill Devon Direct



[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

[illegible]



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

April 13, 2020

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

RE: Devon Cotton Draw 154H

OrderNo.: 2004189

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 12 sample(s) on 4/4/2020 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



## Analytical Report

Lab Order 2004189

Date Reported: 4/13/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-1 Bottom 3Ft

Project: Devon Cotton Draw 154H

Collection Date: 4/3/2020 9:25:00 AM

Lab ID: 2004189-001

Matrix: SOIL

Received Date: 4/4/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/7/2020 8:04:06 PM	51626
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/9/2020 3:09:21 AM	51579
Surr: BFB	102	70-130		%Rec	1	4/9/2020 3:09:21 AM	51579
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	4/7/2020 6:23:42 PM	51589
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/7/2020 6:23:42 PM	51589
Surr: DNOP	89.6	55.1-146		%Rec	1	4/7/2020 6:23:42 PM	51589
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: JMR
Benzene	ND	0.023		mg/Kg	1	4/9/2020 3:09:21 AM	51579
Toluene	ND	0.047		mg/Kg	1	4/9/2020 3:09:21 AM	51579
Ethylbenzene	ND	0.047		mg/Kg	1	4/9/2020 3:09:21 AM	51579
Xylenes, Total	ND	0.093		mg/Kg	1	4/9/2020 3:09:21 AM	51579
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	4/9/2020 3:09:21 AM	51579
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	4/9/2020 3:09:21 AM	51579
Surr: Dibromofluoromethane	105	70-130		%Rec	1	4/9/2020 3:09:21 AM	51579
Surr: Toluene-d8	98.2	70-130		%Rec	1	4/9/2020 3:09:21 AM	51579

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2004189

Date Reported: 4/13/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-2 Bottom 3Ft

Project: Devon Cotton Draw 154H

Collection Date: 4/3/2020 9:35:00 AM

Lab ID: 2004189-002

Matrix: SOIL

Received Date: 4/4/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	59		mg/Kg	20	4/7/2020 8:16:27 PM	51626
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/9/2020 3:38:09 AM	51579
Surr: BFB	104	70-130		%Rec	1	4/9/2020 3:38:09 AM	51579
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	4/7/2020 6:46:00 PM	51589
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	4/7/2020 6:46:00 PM	51589
Surr: DNOP	82.5	55.1-146		%Rec	1	4/7/2020 6:46:00 PM	51589
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	4/9/2020 3:38:09 AM	51579
Toluene	ND	0.049		mg/Kg	1	4/9/2020 3:38:09 AM	51579
Ethylbenzene	ND	0.049		mg/Kg	1	4/9/2020 3:38:09 AM	51579
Xylenes, Total	ND	0.098		mg/Kg	1	4/9/2020 3:38:09 AM	51579
Surr: 1,2-Dichloroethane-d4	88.6	70-130		%Rec	1	4/9/2020 3:38:09 AM	51579
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	4/9/2020 3:38:09 AM	51579
Surr: Dibromofluoromethane	102	70-130		%Rec	1	4/9/2020 3:38:09 AM	51579
Surr: Toluene-d8	95.5	70-130		%Rec	1	4/9/2020 3:38:09 AM	51579

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2004189

Date Reported: 4/13/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-3 North Wall

Project: Devon Cotton Draw 154H

Collection Date: 4/3/2020 9:45:00 AM

Lab ID: 2004189-003

Matrix: SOIL

Received Date: 4/4/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/7/2020 8:28:48 PM	51626
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/9/2020 4:07:02 AM	51579
Surr: BFB	102	70-130		%Rec	1	4/9/2020 4:07:02 AM	51579
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	4/7/2020 7:30:24 PM	51589
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	4/7/2020 7:30:24 PM	51589
Surr: DNOP	83.6	55.1-146		%Rec	1	4/7/2020 7:30:24 PM	51589
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	4/9/2020 4:07:02 AM	51579
Toluene	ND	0.047		mg/Kg	1	4/9/2020 4:07:02 AM	51579
Ethylbenzene	ND	0.047		mg/Kg	1	4/9/2020 4:07:02 AM	51579
Xylenes, Total	ND	0.095		mg/Kg	1	4/9/2020 4:07:02 AM	51579
Surr: 1,2-Dichloroethane-d4	90.6	70-130		%Rec	1	4/9/2020 4:07:02 AM	51579
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	4/9/2020 4:07:02 AM	51579
Surr: Dibromofluoromethane	102	70-130		%Rec	1	4/9/2020 4:07:02 AM	51579
Surr: Toluene-d8	98.7	70-130		%Rec	1	4/9/2020 4:07:02 AM	51579

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



## Analytical Report

Lab Order 2004189

Date Reported: 4/13/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-4 West Wall

Project: Devon Cotton Draw 154H

Collection Date: 4/3/2020 9:55:00 AM

Lab ID: 2004189-004

Matrix: SOIL

Received Date: 4/4/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/7/2020 8:41:08 PM	51626
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/9/2020 4:35:36 AM	51579
Surr: BFB	103	70-130		%Rec	1	4/9/2020 4:35:36 AM	51579
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	4/7/2020 7:52:36 PM	51589
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	4/7/2020 7:52:36 PM	51589
Surr: DNOP	112	55.1-146		%Rec	1	4/7/2020 7:52:36 PM	51589
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	4/9/2020 4:35:36 AM	51579
Toluene	ND	0.048		mg/Kg	1	4/9/2020 4:35:36 AM	51579
Ethylbenzene	ND	0.048		mg/Kg	1	4/9/2020 4:35:36 AM	51579
Xylenes, Total	ND	0.096		mg/Kg	1	4/9/2020 4:35:36 AM	51579
Surr: 1,2-Dichloroethane-d4	95.2	70-130		%Rec	1	4/9/2020 4:35:36 AM	51579
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	4/9/2020 4:35:36 AM	51579
Surr: Dibromofluoromethane	102	70-130		%Rec	1	4/9/2020 4:35:36 AM	51579
Surr: Toluene-d8	97.5	70-130		%Rec	1	4/9/2020 4:35:36 AM	51579

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2004189

Date Reported: 4/13/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-5 Bottom 1.5Ft

Project: Devon Cotton Draw 154H

Collection Date: 4/3/2020 10:05:00 AM

Lab ID: 2004189-005

Matrix: SOIL

Received Date: 4/4/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	61		mg/Kg	20	4/7/2020 8:53:28 PM	51626
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/9/2020 5:04:07 AM	51579
Surr: BFB	101	70-130		%Rec	1	4/9/2020 5:04:07 AM	51579
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/7/2020 8:14:55 PM	51589
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/7/2020 8:14:55 PM	51589
Surr: DNOP	83.9	55.1-146		%Rec	1	4/7/2020 8:14:55 PM	51589
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: JMR
Benzene	ND	0.023		mg/Kg	1	4/9/2020 5:04:07 AM	51579
Toluene	ND	0.046		mg/Kg	1	4/9/2020 5:04:07 AM	51579
Ethylbenzene	ND	0.046		mg/Kg	1	4/9/2020 5:04:07 AM	51579
Xylenes, Total	ND	0.092		mg/Kg	1	4/9/2020 5:04:07 AM	51579
Surr: 1,2-Dichloroethane-d4	97.4	70-130		%Rec	1	4/9/2020 5:04:07 AM	51579
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	1	4/9/2020 5:04:07 AM	51579
Surr: Dibromofluoromethane	103	70-130		%Rec	1	4/9/2020 5:04:07 AM	51579
Surr: Toluene-d8	95.4	70-130		%Rec	1	4/9/2020 5:04:07 AM	51579

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2004189

Date Reported: 4/13/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-6 North Wall

Project: Devon Cotton Draw 154H

Collection Date: 4/3/2020 10:15:00 AM

Lab ID: 2004189-006

Matrix: SOIL

Received Date: 4/4/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/7/2020 9:05:50 PM	51626
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/9/2020 5:32:41 AM	51579
Surr: BFB	103	70-130		%Rec	1	4/9/2020 5:32:41 AM	51579
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	4/7/2020 8:37:06 PM	51589
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/7/2020 8:37:06 PM	51589
Surr: DNOP	84.7	55.1-146		%Rec	1	4/7/2020 8:37:06 PM	51589
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	4/9/2020 5:32:41 AM	51579
Toluene	ND	0.048		mg/Kg	1	4/9/2020 5:32:41 AM	51579
Ethylbenzene	ND	0.048		mg/Kg	1	4/9/2020 5:32:41 AM	51579
Xylenes, Total	ND	0.096		mg/Kg	1	4/9/2020 5:32:41 AM	51579
Surr: 1,2-Dichloroethane-d4	97.6	70-130		%Rec	1	4/9/2020 5:32:41 AM	51579
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	4/9/2020 5:32:41 AM	51579
Surr: Dibromofluoromethane	100	70-130		%Rec	1	4/9/2020 5:32:41 AM	51579
Surr: Toluene-d8	96.7	70-130		%Rec	1	4/9/2020 5:32:41 AM	51579

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2004189

Date Reported: 4/13/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-7 Bottom 1.5Ft

Project: Devon Cotton Draw 154H

Collection Date: 4/3/2020 10:25:00 AM

Lab ID: 2004189-007

Matrix: SOIL

Received Date: 4/4/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/7/2020 9:18:11 PM	51626
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/9/2020 6:01:16 AM	51579
Surr: BFB	101	70-130		%Rec	1	4/9/2020 6:01:16 AM	51579
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	4/7/2020 8:59:19 PM	51589
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/7/2020 8:59:19 PM	51589
Surr: DNOP	84.4	55.1-146		%Rec	1	4/7/2020 8:59:19 PM	51589
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	4/9/2020 6:01:16 AM	51579
Toluene	ND	0.048		mg/Kg	1	4/9/2020 6:01:16 AM	51579
Ethylbenzene	ND	0.048		mg/Kg	1	4/9/2020 6:01:16 AM	51579
Xylenes, Total	ND	0.097		mg/Kg	1	4/9/2020 6:01:16 AM	51579
Surr: 1,2-Dichloroethane-d4	97.9	70-130		%Rec	1	4/9/2020 6:01:16 AM	51579
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	4/9/2020 6:01:16 AM	51579
Surr: Dibromofluoromethane	102	70-130		%Rec	1	4/9/2020 6:01:16 AM	51579
Surr: Toluene-d8	96.8	70-130		%Rec	1	4/9/2020 6:01:16 AM	51579

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2004189

Date Reported: 4/13/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-8 West Wall

Project: Devon Cotton Draw 154H

Collection Date: 4/3/2020 10:45:00 AM

Lab ID: 2004189-008

Matrix: SOIL

Received Date: 4/4/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/7/2020 9:30:32 PM	51626
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/9/2020 6:29:57 AM	51579
Surr: BFB	105	70-130		%Rec	1	4/9/2020 6:29:57 AM	51579
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	4/7/2020 9:21:27 PM	51589
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	4/7/2020 9:21:27 PM	51589
Surr: DNOP	85.5	55.1-146		%Rec	1	4/7/2020 9:21:27 PM	51589
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	4/9/2020 6:29:57 AM	51579
Toluene	ND	0.048		mg/Kg	1	4/9/2020 6:29:57 AM	51579
Ethylbenzene	ND	0.048		mg/Kg	1	4/9/2020 6:29:57 AM	51579
Xylenes, Total	ND	0.096		mg/Kg	1	4/9/2020 6:29:57 AM	51579
Surr: 1,2-Dichloroethane-d4	99.4	70-130		%Rec	1	4/9/2020 6:29:57 AM	51579
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	4/9/2020 6:29:57 AM	51579
Surr: Dibromofluoromethane	103	70-130		%Rec	1	4/9/2020 6:29:57 AM	51579
Surr: Toluene-d8	97.8	70-130		%Rec	1	4/9/2020 6:29:57 AM	51579

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2004189

Date Reported: 4/13/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-9 West Wall

Project: Devon Cotton Draw 154H

Collection Date: 4/3/2020 1:25:00 PM

Lab ID: 2004189-009

Matrix: SOIL

Received Date: 4/4/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/7/2020 10:07:32 PM	51626
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/9/2020 6:58:27 AM	51579
Surr: BFB	103	70-130		%Rec	1	4/9/2020 6:58:27 AM	51579
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/7/2020 9:43:43 PM	51589
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/7/2020 9:43:43 PM	51589
Surr: DNOP	90.7	55.1-146		%Rec	1	4/7/2020 9:43:43 PM	51589
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	4/9/2020 6:58:27 AM	51579
Toluene	ND	0.047		mg/Kg	1	4/9/2020 6:58:27 AM	51579
Ethylbenzene	ND	0.047		mg/Kg	1	4/9/2020 6:58:27 AM	51579
Xylenes, Total	ND	0.094		mg/Kg	1	4/9/2020 6:58:27 AM	51579
Surr: 1,2-Dichloroethane-d4	95.6	70-130		%Rec	1	4/9/2020 6:58:27 AM	51579
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	4/9/2020 6:58:27 AM	51579
Surr: Dibromofluoromethane	102	70-130		%Rec	1	4/9/2020 6:58:27 AM	51579
Surr: Toluene-d8	97.3	70-130		%Rec	1	4/9/2020 6:58:27 AM	51579

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



## Analytical Report

Lab Order 2004189

Date Reported: 4/13/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-10 Bottom 1.5Ft

Project: Devon Cotton Draw 154H

Collection Date: 4/3/2020 1:40:00 PM

Lab ID: 2004189-010

Matrix: SOIL

Received Date: 4/4/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/8/2020 9:16:58 PM	51662
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/9/2020 7:26:52 AM	51579
Surr: BFB	102	70-130		%Rec	1	4/9/2020 7:26:52 AM	51579
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/7/2020 10:05:51 PM	51589
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/7/2020 10:05:51 PM	51589
Surr: DNOP	88.6	55.1-146		%Rec	1	4/7/2020 10:05:51 PM	51589
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	4/9/2020 7:26:52 AM	51579
Toluene	ND	0.047		mg/Kg	1	4/9/2020 7:26:52 AM	51579
Ethylbenzene	ND	0.047		mg/Kg	1	4/9/2020 7:26:52 AM	51579
Xylenes, Total	ND	0.094		mg/Kg	1	4/9/2020 7:26:52 AM	51579
Surr: 1,2-Dichloroethane-d4	95.9	70-130		%Rec	1	4/9/2020 7:26:52 AM	51579
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	4/9/2020 7:26:52 AM	51579
Surr: Dibromofluoromethane	99.9	70-130		%Rec	1	4/9/2020 7:26:52 AM	51579
Surr: Toluene-d8	96.1	70-130		%Rec	1	4/9/2020 7:26:52 AM	51579

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2004189

Date Reported: 4/13/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-11 Bottom 1.5Ft

Project: Devon Cotton Draw 154H

Collection Date: 4/3/2020 1:55:00 PM

Lab ID: 2004189-011

Matrix: SOIL

Received Date: 4/4/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	59		mg/Kg	20	4/8/2020 9:29:22 PM	51662
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/9/2020 7:55:23 AM	51579
Surr: BFB	98.1	70-130		%Rec	1	4/9/2020 7:55:23 AM	51579
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	7.8		mg/Kg	1	4/7/2020 10:28:04 PM	51589
Motor Oil Range Organics (MRO)	ND	39		mg/Kg	1	4/7/2020 10:28:04 PM	51589
Surr: DNOP	99.2	55.1-146		%Rec	1	4/7/2020 10:28:04 PM	51589
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	4/9/2020 7:55:23 AM	51579
Toluene	ND	0.047		mg/Kg	1	4/9/2020 7:55:23 AM	51579
Ethylbenzene	ND	0.047		mg/Kg	1	4/9/2020 7:55:23 AM	51579
Xylenes, Total	ND	0.094		mg/Kg	1	4/9/2020 7:55:23 AM	51579
Surr: 1,2-Dichloroethane-d4	98.4	70-130		%Rec	1	4/9/2020 7:55:23 AM	51579
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	4/9/2020 7:55:23 AM	51579
Surr: Dibromofluoromethane	102	70-130		%Rec	1	4/9/2020 7:55:23 AM	51579
Surr: Toluene-d8	94.1	70-130		%Rec	1	4/9/2020 7:55:23 AM	51579

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2004189

Date Reported: 4/13/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-12 North Wall

Project: Devon Cotton Draw 154H

Collection Date: 4/3/2020 2:10:00 PM

Lab ID: 2004189-012

Matrix: SOIL

Received Date: 4/4/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/8/2020 9:41:47 PM	51662
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/9/2020 8:24:00 AM	51579
Surr: BFB	103	70-130		%Rec	1	4/9/2020 8:24:00 AM	51579
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/7/2020 10:50:01 PM	51589
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/7/2020 10:50:01 PM	51589
Surr: DNOP	91.0	55.1-146		%Rec	1	4/7/2020 10:50:01 PM	51589
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	4/9/2020 8:24:00 AM	51579
Toluene	ND	0.047		mg/Kg	1	4/9/2020 8:24:00 AM	51579
Ethylbenzene	ND	0.047		mg/Kg	1	4/9/2020 8:24:00 AM	51579
Xylenes, Total	ND	0.095		mg/Kg	1	4/9/2020 8:24:00 AM	51579
Surr: 1,2-Dichloroethane-d4	93.1	70-130		%Rec	1	4/9/2020 8:24:00 AM	51579
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	4/9/2020 8:24:00 AM	51579
Surr: Dibromofluoromethane	99.6	70-130		%Rec	1	4/9/2020 8:24:00 AM	51579
Surr: Toluene-d8	95.3	70-130		%Rec	1	4/9/2020 8:24:00 AM	51579

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2004189

13-Apr-20

**Client:** Safety & Environmental Solutions**Project:** Devon Cotton Draw 154H

Sample ID: <b>MB-51626</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>51626</b>	RunNo: <b>67908</b>								
Prep Date: <b>4/7/2020</b>	Analysis Date: <b>4/7/2020</b>	SeqNo: <b>2347414</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-51626</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>51626</b>	RunNo: <b>67908</b>								
Prep Date: <b>4/7/2020</b>	Analysis Date: <b>4/7/2020</b>	SeqNo: <b>2347416</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.2	90	110			

Sample ID: <b>MB-51662</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>51662</b>	RunNo: <b>67978</b>								
Prep Date: <b>4/8/2020</b>	Analysis Date: <b>4/8/2020</b>	SeqNo: <b>2349318</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-51662</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>51662</b>	RunNo: <b>67978</b>								
Prep Date: <b>4/8/2020</b>	Analysis Date: <b>4/8/2020</b>	SeqNo: <b>2349333</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.1	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 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

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2004189

13-Apr-20

**Client:** Safety & Environmental Solutions**Project:** Devon Cotton Draw 154H

Sample ID: <b>LCS-51589</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>51589</b>			RunNo: <b>67897</b>						
Prep Date: <b>4/6/2020</b>	Analysis Date: <b>4/7/2020</b>			SeqNo: <b>2347620</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	83.0	70	130			
Surr: DNOP	4.2		5.000		83.2	55.1	146			

Sample ID: <b>MB-51589</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>PBS</b>	Batch ID: <b>51589</b>			RunNo: <b>67897</b>						
Prep Date: <b>4/6/2020</b>	Analysis Date: <b>4/7/2020</b>			SeqNo: <b>2347621</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								
Surr: DNOP	8.8		10.00		88.4	55.1	146			

Sample ID: <b>LCS-51634</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>51634</b>			RunNo: <b>67900</b>						
Prep Date: <b>4/7/2020</b>	Analysis Date: <b>4/9/2020</b>			SeqNo: <b>2348958</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.7		5.000		74.0	55.1	146			

Sample ID: <b>MB-51634</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>PBS</b>	Batch ID: <b>51634</b>			RunNo: <b>67900</b>						
Prep Date: <b>4/7/2020</b>	Analysis Date: <b>4/9/2020</b>			SeqNo: <b>2348959</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.5		10.00		84.9	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 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

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2004189

13-Apr-20

**Client:** Safety & Environmental Solutions**Project:** Devon Cotton Draw 154H

Sample ID: <b>lcs-51579</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8260B: Volatiles Short List</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>51579</b>		RunNo: <b>67951</b>							
Prep Date: <b>4/6/2020</b>	Analysis Date: <b>4/8/2020</b>		SeqNo: <b>2348738</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.1	70	130			
Toluene	0.96	0.050	1.000	0	96.4	70	130			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.9	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.0	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		94.4	70	130			
Surr: Toluene-d8	0.46		0.5000		91.1	70	130			

Sample ID: <b>mb-51579</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8260B: Volatiles Short List</b>							
Client ID: <b>PBS</b>	Batch ID: <b>51579</b>		RunNo: <b>67951</b>							
Prep Date: <b>4/6/2020</b>	Analysis Date: <b>4/8/2020</b>		SeqNo: <b>2348739</b>		Units: <b>mg/Kg</b>					
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	0.49		0.5000		99.0	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.7	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		102	70	130			
Surr: Toluene-d8	0.47		0.5000		94.3	70	130			

**Qualifiers:**

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D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
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PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

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E Value above quantitation range  
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P Sample pH Not In Range  
RL Reporting Limit



**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2004189

13-Apr-20

**Client:** Safety & Environmental Solutions**Project:** Devon Cotton Draw 154H

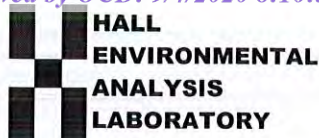
Sample ID: <b>lcs-51579</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>51579</b>			RunNo: <b>67951</b>						
Prep Date: <b>4/6/2020</b>	Analysis Date: <b>4/8/2020</b>			SeqNo: <b>2348764</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	86.1	70	130			
Surr: BFB	500		500.0		100	70	130			

Sample ID: <b>mb-51579</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>51579</b>			RunNo: <b>67951</b>						
Prep Date: <b>4/6/2020</b>	Analysis Date: <b>4/8/2020</b>			SeqNo: <b>2348765</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	510		500.0		101	70	130			

**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  
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P Sample pH Not In Range  
RL Reporting Limit



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: 2004189

RcptNo: 1

Received By: Erin Melendrez

4/4/2020 8:15:00 AM

Completed By: Erin Melendrez

4/4/2020 9:57:56 AM

Reviewed By: ENM

4/4/20

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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: JPD4/04/20

### 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.0	Good				



## Chain-of-Custody Record

Client: Safety & Environmental Solutions

Mailing Address: 1703. G. Clinton  
Albuquerque, NM 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 Turn  
☒ Standard ☐ Rush

Project Name: Devon 154H  
Cotton Draw 154H  
West 20843059

Project #: DEV-20-031

Project Manager: Allen, Bob

Sampler: Sam Jerry

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 5.0-NOA=5.0 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
04/03	0925	S	SP-1 Bottom 3 Ft	1	Free	-001
	0935	S	SP-2 Bottom 3 Ft	1	Free	-002
	0945	S	SP-3 Northwell	1		-003
	0955	S	SP-4 Westwell	1		-004
	1005	S	SP-5 Bottom 1.5 Ft	1		-005
	1015	S	SP-6 Northwell	1		-006
	1025	S	SP-7 Bottom 1.5 Ft	1		-007
	1045	S	SP-8 Westwell	1		-008
	1325	S	SP-9 Westwell	1		-009
	1340	S	SP-10 Bottom 1.5 Ft	1		-010
	1355	S	SP-11 Cotton 1.5 Ft	1		-011
04/03	1410	S	SP-12 Northwell	1		-012

Relinquished by: Sam Jerry

Date: 04/03 Time: 1600

Relinquished by: Sam Jerry

Date: 4/3/20 Time: 1900

## Analysis Request

BTEX / MTBE / TMB's (8021)	X
TPH:8015D(GRO / DRO / MRO)	X
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl, F, Br, NO <sub>3</sub> , PO <sub>4</sub> , SO <sub>4</sub>	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	X
Chloride	X

Remarks:

Bill Direct  
To Devon

CC

Bob  
SERGIO  
KATY  
Jeffrey







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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> 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.

State of New Mexico  
Oil Conservation Division

Page 4

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: \_\_\_\_\_

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: \_\_\_\_\_



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: \_\_\_\_\_