

Incident ID	NAB19122032237
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: Dale Woodall Title: Env. Professional
Signature: Dale Woodall Date: 11/9/2022
email: dale.woodall@dvn.com Telephone: 575-748-1838

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.

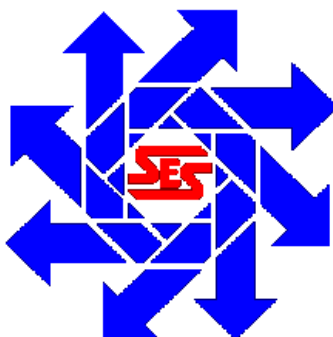
Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

**Devon Energy Production Company
Cotton Draw Unit #221H**

**Closure Report
U/L N, Section 1, T25S, R31E
Eddy County, New Mexico
NAB1911936996
NAB1912032237**

July 22, 2021



Prepared for:

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

By:

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

Company Contacts

Representative	Company	Telephone	E-mail
Tom Bynum	Devon Energy	580-748-1613	Tom.Bynum@dvn.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Devon Energy to perform a site assessment at the Cotton Draw Unit #221H location concerning two separate incidents in which produced water was released onto the well pad. This site is situated in Eddy County, Section 2, Township 24S, and Range 29E.

SESI personnel performed an assessment of the site in February of 2020 based on generator knowledge of the leak locations. With the amount of overlap of both of these releases, it was determined to approach them as a single release, and remediate the location to the extent possible to satisfy the closure of both incident numbers. SESI personnel mapped the leaks and performed delineations.

Surface and Ground Water

Based on the NMOCD Oil and Gas map included in this report, surface water is not present within 1,000 feet of this release. The New Mexico Office of the State Engineer records indicates the average depth to groundwater for the area to be approximately 350' bgs; This is evidenced by C-03830-POD1 drilled in 2015 and C-02245 drilled in 1992. A map of these locations is provided.

Characterization

NAB1912032237

According to the C-141, the release was discovered on 11/20/2018 when abnormally high production volumes by the well flooded the gas scrubber, and the drain separator could not keep up, therefore causing a release of 5.2 bbls of produced water. Two barrels of fluid were recovered via vacuum truck.

NAB1911936996

According to the C-141, a temporary 3 phase separator swamped out and sent a mix of water/oil paraffin to the scrubber. The release was discovered on 1/2/2019, with an estimated volume of release containing 20 bbls of oil, and 17 bbls of produced water. 15 bbls of oil and 10 bbls of produced water were recovered on the location via vacuum truck.

In February, 2020, SESI personnel performed sampling to determine vertical extent of the release. SESI advanced multiple auger holes within the leak area. The samples were properly packaged and preserved and sent to Cardinal Laboratories for analysis. The results of the testing are captured in the summary below:

Devon Energy CDU #221H Soil Sample Results: Cardinal Environmental Laboratories 2/27/20									
SAMPLE ID	Chloride	GRO	DRO	EXT DRO	Benzene	Toluene	Ethyl benzene	Total Xylenes	Total BTEX
AH1 @ SURFACE	20000	399	17400	4130	<0.050	0.062	<0.050	6.9	6.96
AH2 @ SURFACE	23200	819	18400	4100	<0.050	0.483	0.970	17.2	18.6
AH3 @ SURFACE	9060	18.2	2140	598	<0.050	<0.050	<0.050	0.345	0.345
AH4 @ SURFACE	32	<10.0	83.1	43.9	<0.050	<0.050	<0.050	<0.150	<0.300

Devon Energy CDU #221H Soil Sample Results: Hall Environmental Laboratories 3/24/20 for Vertical Extent								
SAMPLE ID	Chloride	GRO	DRO	EXT DRO	Benzene	Toluene	Ethyl benzene	Total Xylenes
SP-1 BTM @ 1.5'	140	ND	ND	ND	ND	ND	ND	ND
SP-2 BTM @ 1.5'	84	ND	83	ND	ND	ND	ND	ND
SP-3 W Wall	110	ND	ND	ND	ND	ND	ND	ND
SP-4 N Wall	100	ND	ND	ND	ND	ND	ND	ND
SP-5 E Wall	61	ND	ND	ND	ND	ND	ND	ND
SP-6 BTM @ 1'	580	ND	79	81	ND	ND	ND	ND
SP-7 BTM @ 1'	840	ND	69	79	ND	ND	ND	ND
SP-8 S Wall	1200	ND	52	59	ND	ND	ND	ND
SP-9 SURFACE	66	ND	71	55	ND	ND	ND	ND

Remediation

Based on the results of the delineation, SESI, determined the best course of action is to excavate the contaminated soil to a depth of 1 to 1.5 feet as practicable. Beginning in March of 2020, the contaminated material was excavated and removed. The removed material was sent to an approved NMOCD waste facility for disposal. A sampling event was conducted to ensure vertical extent had been found. The table above indicated there were a handful of areas that required more work. SESI and contractors returned to the site to dig an additional 3" in and around the areas that encompassed the "hot spots" indicated by the sampling in March.

Once the additional excavation had been completed and field testing indicated clean soil, samples were obtained and sent to Hall Environmental Labs for analysis and confirmation that the vertical and horizontal extents had been reached. These additional sampling events that occurred in May of 2020 are displayed in the tables below.

Devon Energy CDU # 221H Soil Sample Results: Hall Environmental Laboratories 5/15/20 – Vertical Extent								
SAMPLE ID	Chloride	GRO	DRO	EXT DRO	Benzene	Toluene	Ethyl benzene	Total Xylenes
AH-10 SURFACE N WALL	4800	ND	270	150	ND	ND	ND	ND
AH-10 @ 1' N WALL	240	ND	ND	ND	ND	ND	ND	ND
AH-11 SUFACE N WALL	4300	ND	370	230	ND	ND	ND	ND
AH-11 @1' N WALL	ND	ND	ND	ND	ND	ND	ND	ND
AH-12 SURFACE E WALL	4300	ND	490	320	ND	ND	ND	ND
AH-12 @ 1' E WALL	ND	ND	ND	ND	ND	ND	ND	ND
AH-13 SURFACE S WALL	310	ND	ND	ND	ND	ND	ND	ND
AH-13 @ 1' S WALL	240	ND	ND	ND	ND	ND	ND	ND
AH-14 SURFACE S WALL	290	ND	ND	ND	ND	ND	ND	ND
AH-14 @ 1' S WALL	ND	ND	ND	ND	ND	ND	ND	ND
AH-15 SURFACE W WALL	280	ND	ND	ND	ND	ND	ND	ND
AH-15 @ 1' W WALL	230	ND	ND	ND	ND	ND	ND	ND
Devon Energy CDU # 221H Soil Sample Results: Hall Environmental Laboratories 5/28/20 – Horizontal Extent								
AH-16 N SURFACE	ND	ND	ND	ND	ND	ND	ND	ND
AH-17 S SURFACE	ND	ND	ND	ND	ND	ND	ND	ND
AH-18 E SURFACE	ND	ND	ND	ND	ND	ND	ND	ND
AH-19 W SURFACE	ND	ND	ND	ND	ND	ND	ND	ND

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

Closure Request

Based on the confirmation and horizontal sample results, SESI believes the release areas to be properly remediated according to the closure criteria set forth in Table I of the Spill Rule 19.15.29 NMAC. Therefore, SESI, on behalf of Devon respectfully requests closure of **NAB1911936996** and **NAB1912032237**. Supplemental information has been included in this report to support our closure request.

Supplemental Documentation for Closure

Map of Release with sample locations
 Photos of release and remediation
 NMOCD Oil and Gas Map
 Laboratory Analysis
 C-141, pages 3-6

Devon Energy

CDU 221H
UL N - Sec 1 - T25S - R31E
NAB1911936996
NAB1912032237

Legend

- Sampling - 3/24/20
- Horiz Extent - 5/28/20
- Initial Sampling - 2/27/20
- Spill Area
- Vert Extent - 5/15/20

AH16 N @ Surface
SP4 N Wall
SP3 W Wall
SP2 BTM @ 1.5'
AH19 W @ Surface
AH18 E @ Surface
SP9 BTM @ Surface
SP7 BTM @ 1'
SP8 S Wall
AH13 S Wall @ 1'
SP5 E Wall
AH14 S Wall @ 1'
AH17 S @ Surface



Devon Energy

CDU 221H
UL N - Sec 1 - T25S - R31E
NAB1911936996
NAB1912032237

Legend

- Sampling - 3/24/20
- Horiz Extent - 5/28/20
- Initial Sampling - 2/27/20
- Spill Area
- Vert Extent - 5/15/20



Google Earth

50 ft





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USGS Water Resources

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Groundwater

Geographic Area:
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Groundwater levels for New Mexico

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320932103443801

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 320932103443801 25S.31E.02.23441

Eddy County, New Mexico
Latitude 32°09'37.4", Longitude 103°44'29.6" NAD83
Land-surface elevation 3,460.00 feet above NGVD29
The depth of the well is 1,016 feet below land surface.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1966-08-18		D	400.00			2			U	
1976-01-28		D	390.27			2			U	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for New Mexico: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>



Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2020-03-09 15:11:52 EDT

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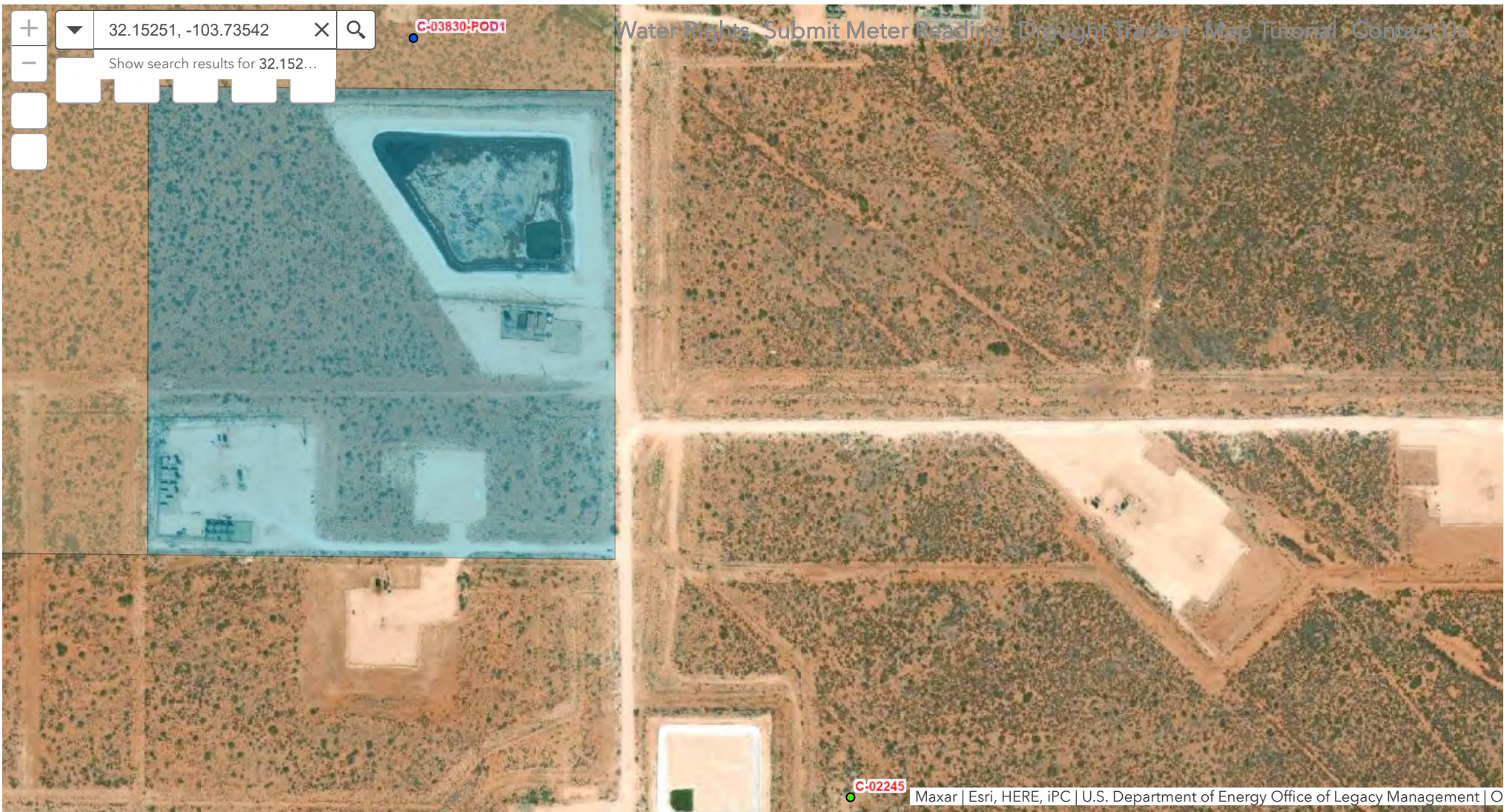
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32.15251, -103.73542

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 04, 2020

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: CDU 221H

Enclosed are the results of analyses for samples received by the laboratory on 02/28/20 9:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received: 02/28/2020
 Reported: 03/04/2020
 Project Name: CDU 221H
 Project Number: DEV - 20 - 019
 Project Location: LEA COUNTY

Sampling Date: 02/27/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH #1 SURFACE (H000647-01)

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2020	ND	1.98	99.2	2.00	0.163	
Toluene*	0.062	0.050	03/03/2020	ND	2.00	99.8	2.00	0.270	
Ethylbenzene*	<0.050	0.050	03/03/2020	ND	2.00	100	2.00	0.666	
Total Xylenes*	6.90	0.150	03/03/2020	ND	5.86	97.7	6.00	0.618	
Total BTX	6.96	0.300	03/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 171 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20000	16.0	03/02/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	399	100	03/03/2020	ND	187	93.5	200	0.778	
DRO >C10-C28*	17400	100	03/03/2020	ND	182	90.9	200	1.46	
EXT DRO >C28-C36	4130	100	03/03/2020	ND					

Surrogate: 1-Chlorooctane 213 % 44.3-144

Surrogate: 1-Chlorooctadecane 722 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received: 02/28/2020
 Reported: 03/04/2020
 Project Name: CDU 221H
 Project Number: DEV - 20 - 019
 Project Location: LEA COUNTY

Sampling Date: 02/27/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH #2 SURFACE (H000647-02)

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2020	ND	1.98	99.2	2.00	0.163	
Toluene*	0.483	0.050	03/03/2020	ND	2.00	99.8	2.00	0.270	
Ethylbenzene*	0.970	0.050	03/03/2020	ND	2.00	100	2.00	0.666	
Total Xylenes*	17.2	0.150	03/03/2020	ND	5.86	97.7	6.00	0.618	
Total BTX	18.6	0.300	03/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 73.3-129

Chloride, SM4500CI-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	23200	16.0	03/02/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	819	100	03/03/2020	ND	187	93.5	200	0.778	
DRO >C10-C28*	18400	100	03/03/2020	ND	182	90.9	200	1.46	
EXT DRO >C28-C36	4100	100	03/03/2020	ND					

Surrogate: 1-Chlorooctane 275 % 44.3-144

Surrogate: 1-Chlorooctadecane 744 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
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 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received: 02/28/2020
 Reported: 03/04/2020
 Project Name: CDU 221H
 Project Number: DEV - 20 - 019
 Project Location: LEA COUNTY

Sampling Date: 02/27/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH #3 SURFACE (H000647-03)

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2020	ND	1.98	99.2	2.00	0.163	
Toluene*	<0.050	0.050	03/02/2020	ND	2.00	99.8	2.00	0.270	
Ethylbenzene*	<0.050	0.050	03/02/2020	ND	2.00	100	2.00	0.666	
Total Xylenes*	0.345	0.150	03/02/2020	ND	5.86	97.7	6.00	0.618	
Total BTX	0.345	0.300	03/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 130 % 73.3-129

Chloride, SM4500CI-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9060	16.0	03/02/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	18.2	10.0	03/02/2020	ND	187	93.5	200	0.778	
DRO >C10-C28*	2140	10.0	03/02/2020	ND	182	90.9	200	1.46	
EXT DRO >C28-C36	598	10.0	03/02/2020	ND					

Surrogate: 1-Chlorooctane 93.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 157 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received: 02/28/2020
 Reported: 03/04/2020
 Project Name: CDU 221H
 Project Number: DEV - 20 - 019
 Project Location: LEA COUNTY

Sampling Date: 02/27/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH #4 SURFACE (H000647-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2020	ND	1.98	99.2	2.00	0.163	
Toluene*	<0.050	0.050	03/02/2020	ND	2.00	99.8	2.00	0.270	
Ethylbenzene*	<0.050	0.050	03/02/2020	ND	2.00	100	2.00	0.666	
Total Xylenes*	<0.150	0.150	03/02/2020	ND	5.86	97.7	6.00	0.618	
Total BTEX	<0.300	0.300	03/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/02/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2020	ND	187	93.5	200	0.778	
DRO >C10-C28*	83.1	10.0	03/02/2020	ND	182	90.9	200	1.46	
EXT DRO >C28-C36	43.9	10.0	03/02/2020	ND					

Surrogate: 1-Chlorooctane 89.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Released to Imaging: 3/12/2024 10:06:07 AM



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

May 26, 2020

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

RE: Devon Cotton Draw 221H

OrderNo.: 2005796

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 12 sample(s) on 5/19/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

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 2005796

Date Reported: 5/26/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: AH-10 Surface North Wall

Project: Devon Cotton Draw 221H

Collection Date: 5/15/2020 9:30:00 AM

Lab ID: 2005796-001

Matrix: SOIL

Received Date: 5/19/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	4800	150		mg/Kg	50	5/23/2020 11:29:56 PM	52665
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/20/2020 11:42:33 PM	52570
Surr: BFB	95.7	70-130		%Rec	1	5/20/2020 11:42:33 PM	52570
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	270	9.5		mg/Kg	1	5/22/2020 4:56:57 AM	52589
Motor Oil Range Organics (MRO)	150	47		mg/Kg	1	5/22/2020 4:56:57 AM	52589
Surr: DNOP	70.6	55.1-146		%Rec	1	5/22/2020 4:56:57 AM	52589
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	5/20/2020 11:42:33 PM	52570
Toluene	ND	0.048		mg/Kg	1	5/20/2020 11:42:33 PM	52570
Ethylbenzene	ND	0.048		mg/Kg	1	5/20/2020 11:42:33 PM	52570
Xylenes, Total	ND	0.095		mg/Kg	1	5/20/2020 11:42:33 PM	52570
Surr: 1,2-Dichloroethane-d4	85.4	70-130		%Rec	1	5/20/2020 11:42:33 PM	52570
Surr: 4-Bromofluorobenzene	88.1	70-130		%Rec	1	5/20/2020 11:42:33 PM	52570
Surr: Dibromofluoromethane	105	70-130		%Rec	1	5/20/2020 11:42:33 PM	52570
Surr: Toluene-d8	97.1	70-130		%Rec	1	5/20/2020 11:42:33 PM	52570

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		

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Analytical Report

Lab Order 2005796

Date Reported: 5/26/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: AH-10 1 ft North Wall

Project: Devon Cotton Draw 221H

Collection Date: 5/15/2020 9:40:00 AM

Lab ID: 2005796-002

Matrix: SOIL

Received Date: 5/19/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	240	59		mg/Kg	20	5/23/2020 1:46:39 PM	52665
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/21/2020 2:35:28 AM	52570
Surr: BFB	95.7	70-130		%Rec	1	5/21/2020 2:35:28 AM	52570
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	5/22/2020 5:20:50 AM	52589
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	5/22/2020 5:20:50 AM	52589
Surr: DNOP	107	55.1-146		%Rec	1	5/22/2020 5:20:50 AM	52589
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	5/21/2020 2:35:28 AM	52570
Toluene	ND	0.048		mg/Kg	1	5/21/2020 2:35:28 AM	52570
Ethylbenzene	ND	0.048		mg/Kg	1	5/21/2020 2:35:28 AM	52570
Xylenes, Total	ND	0.096		mg/Kg	1	5/21/2020 2:35:28 AM	52570
Surr: 1,2-Dichloroethane-d4	85.6	70-130		%Rec	1	5/21/2020 2:35:28 AM	52570
Surr: 4-Bromofluorobenzene	90.9	70-130		%Rec	1	5/21/2020 2:35:28 AM	52570
Surr: Dibromofluoromethane	104	70-130		%Rec	1	5/21/2020 2:35:28 AM	52570
Surr: Toluene-d8	93.9	70-130		%Rec	1	5/21/2020 2:35:28 AM	52570

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		

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Analytical Report

Lab Order 2005796

Date Reported: 5/26/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: AH-11 Surface North Wall

Project: Devon Cotton Draw 221H

Collection Date: 5/15/2020 9:50:00 AM

Lab ID: 2005796-003

Matrix: SOIL

Received Date: 5/19/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	4300	150		mg/Kg	50	5/23/2020 11:42:20 PM	52665
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/21/2020 3:04:23 AM	52570
Surr: BFB	94.6	70-130		%Rec	1	5/21/2020 3:04:23 AM	52570
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	370	9.3		mg/Kg	1	5/22/2020 5:44:52 AM	52589
Motor Oil Range Organics (MRO)	230	46		mg/Kg	1	5/22/2020 5:44:52 AM	52589
Surr: DNOP	82.6	55.1-146		%Rec	1	5/22/2020 5:44:52 AM	52589
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.023		mg/Kg	1	5/21/2020 3:04:23 AM	52570
Toluene	ND	0.046		mg/Kg	1	5/21/2020 3:04:23 AM	52570
Ethylbenzene	ND	0.046		mg/Kg	1	5/21/2020 3:04:23 AM	52570
Xylenes, Total	ND	0.092		mg/Kg	1	5/21/2020 3:04:23 AM	52570
Surr: 1,2-Dichloroethane-d4	86.5	70-130		%Rec	1	5/21/2020 3:04:23 AM	52570
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	5/21/2020 3:04:23 AM	52570
Surr: Dibromofluoromethane	107	70-130		%Rec	1	5/21/2020 3:04:23 AM	52570
Surr: Toluene-d8	94.4	70-130		%Rec	1	5/21/2020 3:04:23 AM	52570

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		

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Analytical Report

Lab Order 2005796

Date Reported: 5/26/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: AH-11 1 ft North Wall

Project: Devon Cotton Draw 221H

Collection Date: 5/15/2020 10:00:00 AM

Lab ID: 2005796-004

Matrix: SOIL

Received Date: 5/19/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	5/23/2020 2:11:28 PM	52665
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/21/2020 3:33:11 AM	52570
Surr: BFB	94.4	70-130		%Rec	1	5/21/2020 3:33:11 AM	52570
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/22/2020 6:08:48 AM	52589
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/22/2020 6:08:48 AM	52589
Surr: DNOP	101	55.1-146		%Rec	1	5/22/2020 6:08:48 AM	52589
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.023		mg/Kg	1	5/21/2020 3:33:11 AM	52570
Toluene	ND	0.046		mg/Kg	1	5/21/2020 3:33:11 AM	52570
Ethylbenzene	ND	0.046		mg/Kg	1	5/21/2020 3:33:11 AM	52570
Xylenes, Total	ND	0.093		mg/Kg	1	5/21/2020 3:33:11 AM	52570
Surr: 1,2-Dichloroethane-d4	85.8	70-130		%Rec	1	5/21/2020 3:33:11 AM	52570
Surr: 4-Bromofluorobenzene	90.5	70-130		%Rec	1	5/21/2020 3:33:11 AM	52570
Surr: Dibromofluoromethane	105	70-130		%Rec	1	5/21/2020 3:33:11 AM	52570
Surr: Toluene-d8	95.5	70-130		%Rec	1	5/21/2020 3:33:11 AM	52570

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		

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Analytical Report

Lab Order 2005796

Date Reported: 5/26/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: AH-12 Surface East Wall

Project: Devon Cotton Draw 221H

Collection Date: 5/15/2020 10:10:00 AM

Lab ID: 2005796-005

Matrix: SOIL

Received Date: 5/19/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	4300	150		mg/Kg	50	5/23/2020 11:54:45 PM	52665
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/21/2020 4:01:58 AM	52570
Surr: BFB	96.3	70-130		%Rec	1	5/21/2020 4:01:58 AM	52570
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	490	10		mg/Kg	1	5/22/2020 6:32:58 AM	52589
Motor Oil Range Organics (MRO)	320	50		mg/Kg	1	5/22/2020 6:32:58 AM	52589
Surr: DNOP	100	55.1-146		%Rec	1	5/22/2020 6:32:58 AM	52589
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	5/21/2020 4:01:58 AM	52570
Toluene	ND	0.047		mg/Kg	1	5/21/2020 4:01:58 AM	52570
Ethylbenzene	ND	0.047		mg/Kg	1	5/21/2020 4:01:58 AM	52570
Xylenes, Total	ND	0.095		mg/Kg	1	5/21/2020 4:01:58 AM	52570
Surr: 1,2-Dichloroethane-d4	84.9	70-130		%Rec	1	5/21/2020 4:01:58 AM	52570
Surr: 4-Bromofluorobenzene	87.3	70-130		%Rec	1	5/21/2020 4:01:58 AM	52570
Surr: Dibromofluoromethane	104	70-130		%Rec	1	5/21/2020 4:01:58 AM	52570
Surr: Toluene-d8	95.4	70-130		%Rec	1	5/21/2020 4:01:58 AM	52570

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		

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Analytical Report

Lab Order 2005796

Date Reported: 5/26/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: AH-12 1ft East Wall

Project: Devon Cotton Draw 221H

Collection Date: 5/15/2020 10:20:00 AM

Lab ID: 2005796-006

Matrix: SOIL

Received Date: 5/19/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	59		mg/Kg	20	5/23/2020 2:36:18 PM	52665
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/21/2020 4:30:32 AM	52570
Surr: BFB	97.3	70-130		%Rec	1	5/21/2020 4:30:32 AM	52570
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/22/2020 6:56:55 AM	52589
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/22/2020 6:56:55 AM	52589
Surr: DNOP	92.5	55.1-146		%Rec	1	5/22/2020 6:56:55 AM	52589
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	5/21/2020 4:30:32 AM	52570
Toluene	ND	0.048		mg/Kg	1	5/21/2020 4:30:32 AM	52570
Ethylbenzene	ND	0.048		mg/Kg	1	5/21/2020 4:30:32 AM	52570
Xylenes, Total	ND	0.096		mg/Kg	1	5/21/2020 4:30:32 AM	52570
Surr: 1,2-Dichloroethane-d4	88.1	70-130		%Rec	1	5/21/2020 4:30:32 AM	52570
Surr: 4-Bromofluorobenzene	91.7	70-130		%Rec	1	5/21/2020 4:30:32 AM	52570
Surr: Dibromofluoromethane	102	70-130		%Rec	1	5/21/2020 4:30:32 AM	52570
Surr: Toluene-d8	94.4	70-130		%Rec	1	5/21/2020 4:30:32 AM	52570

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		

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Analytical Report

Lab Order 2005796

Date Reported: 5/26/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: AH-13 Surface South Wall

Project: Devon Cotton Draw 221H

Collection Date: 5/15/2020 10:40:00 AM

Lab ID: 2005796-007

Matrix: SOIL

Received Date: 5/19/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	310	60		mg/Kg	20	5/23/2020 2:48:43 PM	52665
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/21/2020 4:59:06 AM	52570
Surr: BFB	94.1	70-130		%Rec	1	5/21/2020 4:59:06 AM	52570
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/22/2020 7:21:00 AM	52589
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/22/2020 7:21:00 AM	52589
Surr: DNOP	66.7	55.1-146		%Rec	1	5/22/2020 7:21:00 AM	52589
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	5/21/2020 4:59:06 AM	52570
Toluene	ND	0.048		mg/Kg	1	5/21/2020 4:59:06 AM	52570
Ethylbenzene	ND	0.048		mg/Kg	1	5/21/2020 4:59:06 AM	52570
Xylenes, Total	ND	0.096		mg/Kg	1	5/21/2020 4:59:06 AM	52570
Surr: 1,2-Dichloroethane-d4	84.2	70-130		%Rec	1	5/21/2020 4:59:06 AM	52570
Surr: 4-Bromofluorobenzene	88.7	70-130		%Rec	1	5/21/2020 4:59:06 AM	52570
Surr: Dibromofluoromethane	101	70-130		%Rec	1	5/21/2020 4:59:06 AM	52570
Surr: Toluene-d8	93.5	70-130		%Rec	1	5/21/2020 4:59:06 AM	52570

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		

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Analytical Report

Lab Order 2005796

Date Reported: 5/26/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: AH-13 1 ft South Wall

Project: Devon Cotton Draw 221H

Collection Date: 5/15/2020 10:50:00 AM

Lab ID: 2005796-008

Matrix: SOIL

Received Date: 5/19/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	240	60		mg/Kg	20	5/23/2020 3:01:07 PM	52665
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/21/2020 5:27:46 AM	52570
Surr: BFB	96.9	70-130		%Rec	1	5/21/2020 5:27:46 AM	52570
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	5/22/2020 7:44:54 AM	52589
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	5/22/2020 7:44:54 AM	52589
Surr: DNOP	106	55.1-146		%Rec	1	5/22/2020 7:44:54 AM	52589
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	5/21/2020 5:27:46 AM	52570
Toluene	ND	0.050		mg/Kg	1	5/21/2020 5:27:46 AM	52570
Ethylbenzene	ND	0.050		mg/Kg	1	5/21/2020 5:27:46 AM	52570
Xylenes, Total	ND	0.10		mg/Kg	1	5/21/2020 5:27:46 AM	52570
Surr: 1,2-Dichloroethane-d4	85.4	70-130		%Rec	1	5/21/2020 5:27:46 AM	52570
Surr: 4-Bromofluorobenzene	91.7	70-130		%Rec	1	5/21/2020 5:27:46 AM	52570
Surr: Dibromofluoromethane	104	70-130		%Rec	1	5/21/2020 5:27:46 AM	52570
Surr: Toluene-d8	96.2	70-130		%Rec	1	5/21/2020 5:27:46 AM	52570

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		

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Analytical Report

Lab Order 2005796

Date Reported: 5/26/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: AH-14 Surface South Wall

Project: Devon Cotton Draw 221H

Collection Date: 5/15/2020 11:00:00 AM

Lab ID: 2005796-009

Matrix: SOIL

Received Date: 5/19/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	290	60		mg/Kg	20	5/23/2020 3:38:21 PM	52665
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/21/2020 5:56:20 AM	52570
Surr: BFB	94.5	70-130		%Rec	1	5/21/2020 5:56:20 AM	52570
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/22/2020 8:08:56 AM	52589
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/22/2020 8:08:56 AM	52589
Surr: DNOP	71.6	55.1-146		%Rec	1	5/22/2020 8:08:56 AM	52589
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	5/21/2020 5:56:20 AM	52570
Toluene	ND	0.047		mg/Kg	1	5/21/2020 5:56:20 AM	52570
Ethylbenzene	ND	0.047		mg/Kg	1	5/21/2020 5:56:20 AM	52570
Xylenes, Total	ND	0.095		mg/Kg	1	5/21/2020 5:56:20 AM	52570
Surr: 1,2-Dichloroethane-d4	84.9	70-130		%Rec	1	5/21/2020 5:56:20 AM	52570
Surr: 4-Bromofluorobenzene	90.0	70-130		%Rec	1	5/21/2020 5:56:20 AM	52570
Surr: Dibromofluoromethane	102	70-130		%Rec	1	5/21/2020 5:56:20 AM	52570
Surr: Toluene-d8	92.0	70-130		%Rec	1	5/21/2020 5:56:20 AM	52570

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		

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Analytical Report

Lab Order 2005796

Date Reported: 5/26/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: AH-14 1 ft South Wall

Project: Devon Cotton Draw 221H

Collection Date: 5/15/2020 11:10:00 AM

Lab ID: 2005796-010

Matrix: SOIL

Received Date: 5/19/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	5/23/2020 3:50:45 PM	52665
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/21/2020 6:24:46 AM	52570
Surr: BFB	94.3	70-130		%Rec	1	5/21/2020 6:24:46 AM	52570
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	5/22/2020 8:32:51 AM	52589
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/22/2020 8:32:51 AM	52589
Surr: DNOP	95.3	55.1-146		%Rec	1	5/22/2020 8:32:51 AM	52589
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	5/21/2020 6:24:46 AM	52570
Toluene	ND	0.048		mg/Kg	1	5/21/2020 6:24:46 AM	52570
Ethylbenzene	ND	0.048		mg/Kg	1	5/21/2020 6:24:46 AM	52570
Xylenes, Total	ND	0.096		mg/Kg	1	5/21/2020 6:24:46 AM	52570
Surr: 1,2-Dichloroethane-d4	86.3	70-130		%Rec	1	5/21/2020 6:24:46 AM	52570
Surr: 4-Bromofluorobenzene	90.5	70-130		%Rec	1	5/21/2020 6:24:46 AM	52570
Surr: Dibromofluoromethane	102	70-130		%Rec	1	5/21/2020 6:24:46 AM	52570
Surr: Toluene-d8	93.9	70-130		%Rec	1	5/21/2020 6:24:46 AM	52570

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		

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Analytical Report

Lab Order 2005796

Date Reported: 5/26/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: AH-15 Surface West Wall

Project: Devon Cotton Draw 221H

Collection Date: 5/15/2020 11:20:00 AM

Lab ID: 2005796-011

Matrix: SOIL

Received Date: 5/19/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	280	60		mg/Kg	20	5/23/2020 4:03:09 PM	52665
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/21/2020 6:53:24 AM	52570
Surr: BFB	98.0	70-130		%Rec	1	5/21/2020 6:53:24 AM	52570
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/22/2020 8:56:57 AM	52589
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/22/2020 8:56:57 AM	52589
Surr: DNOP	50.8	55.1-146	S	%Rec	1	5/22/2020 8:56:57 AM	52589
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.023		mg/Kg	1	5/21/2020 6:53:24 AM	52570
Toluene	ND	0.047		mg/Kg	1	5/21/2020 6:53:24 AM	52570
Ethylbenzene	ND	0.047		mg/Kg	1	5/21/2020 6:53:24 AM	52570
Xylenes, Total	ND	0.093		mg/Kg	1	5/21/2020 6:53:24 AM	52570
Surr: 1,2-Dichloroethane-d4	88.7	70-130		%Rec	1	5/21/2020 6:53:24 AM	52570
Surr: 4-Bromofluorobenzene	90.9	70-130		%Rec	1	5/21/2020 6:53:24 AM	52570
Surr: Dibromofluoromethane	105	70-130		%Rec	1	5/21/2020 6:53:24 AM	52570
Surr: Toluene-d8	95.9	70-130		%Rec	1	5/21/2020 6:53:24 AM	52570

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		

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Analytical Report

Lab Order 2005796

Date Reported: 5/26/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: AH-15 1 ft West Wall

Project: Devon Cotton Draw 221H

Collection Date: 5/15/2020 11:35:00 AM

Lab ID: 2005796-012

Matrix: SOIL

Received Date: 5/19/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	230	60		mg/Kg	20	5/23/2020 4:15:33 PM	52665
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/21/2020 7:22:05 AM	52570
Surr: BFB	95.3	70-130		%Rec	1	5/21/2020 7:22:05 AM	52570
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/22/2020 9:21:00 AM	52589
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/22/2020 9:21:00 AM	52589
Surr: DNOP	89.0	55.1-146		%Rec	1	5/22/2020 9:21:00 AM	52589
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	5/21/2020 7:22:05 AM	52570
Toluene	ND	0.048		mg/Kg	1	5/21/2020 7:22:05 AM	52570
Ethylbenzene	ND	0.048		mg/Kg	1	5/21/2020 7:22:05 AM	52570
Xylenes, Total	ND	0.096		mg/Kg	1	5/21/2020 7:22:05 AM	52570
Surr: 1,2-Dichloroethane-d4	85.3	70-130		%Rec	1	5/21/2020 7:22:05 AM	52570
Surr: 4-Bromofluorobenzene	90.7	70-130		%Rec	1	5/21/2020 7:22:05 AM	52570
Surr: Dibromofluoromethane	99.8	70-130		%Rec	1	5/21/2020 7:22:05 AM	52570
Surr: Toluene-d8	94.2	70-130		%Rec	1	5/21/2020 7:22:05 AM	52570

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		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2005796

26-May-20

Client: Safety & Environmental Solutions**Project:** Devon Cotton Draw 221H

Sample ID: MB-52665	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 52665	RunNo: 69127								
Prep Date: 5/23/2020	Analysis Date: 5/23/2020	SeqNo: 2395485	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-52665	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 52665	RunNo: 69127								
Prep Date: 5/23/2020	Analysis Date: 5/23/2020	SeqNo: 2395486	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.1	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

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

WO#: 2005796

26-May-20

Client: Safety & Environmental Solutions**Project:** Devon Cotton Draw 221H

Sample ID: LCS-52589	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 52589		RunNo: 69011							
Prep Date: 5/20/2020	Analysis Date: 5/22/2020		SeqNo: 2392465		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	10	50.00	0	114	70	130			
Surr: DNOP	5.2		5.000		104	55.1	146			

Sample ID: MB-52589	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 52589		RunNo: 69011							
Prep Date: 5/20/2020	Analysis Date: 5/22/2020		SeqNo: 2392471		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		122	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#: 2005796

26-May-20

Client: Safety & Environmental Solutions**Project:** Devon Cotton Draw 221H

Sample ID: mb-52570	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 52570	RunNo: 69064								
Prep Date: 5/19/2020	Analysis Date: 5/20/2020	SeqNo: 2391817	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		88.0	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.4	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		103	70	130			
Surr: Toluene-d8	0.48		0.5000		95.1	70	130			

Sample ID: lcs-52570	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 52570	RunNo: 69064								
Prep Date: 5/19/2020	Analysis Date: 5/20/2020	SeqNo: 2391818	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	107	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.1	0.050	1.000	0	109	80	120			
Xylenes, Total	3.2	0.10	3.000	0	107	80	120			
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		87.3	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.3	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		103	70	130			
Surr: Toluene-d8	0.47		0.5000		93.4	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

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

WO#: 2005796

26-May-20

Client: Safety & Environmental Solutions**Project:** Devon Cotton Draw 221H

Sample ID: mb-52570	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 52570	RunNo: 69064								
Prep Date: 5/19/2020	Analysis Date: 5/20/2020	SeqNo: 2391843		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	480		500.0		96.1	70	130			

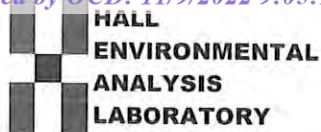
Sample ID: lcs-52570	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 52570	RunNo: 69064								
Prep Date: 5/19/2020	Analysis Date: 5/20/2020	SeqNo: 2391844		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	80.8	70	130			
Surr: BFB	480		500.0		96.2	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

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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: 2005796

RcptNo: 1

Received By: Isaiah Ortiz

5/19/2020 9:30:00 AM

I-OK

Completed By: Isaiah Ortiz

5/19/2020 9:57:04 AM

I-OK

Reviewed By: LB

5/19/20

Chain of Custody1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐

2. How was the sample delivered? Courier

Log In3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐5. Sample(s) in proper container(s)? Yes ☒ No ☐6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☒10. Were any sample containers received broken? Yes ☐ No ☒11. Does paperwork match bottle labels? Yes ☒ No ☐

(Note discrepancies on chain of custody)

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? Yes ☒ No ☐

(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: em 5/19/20

Special Handling (if applicable)15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Not Present			



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

March 31, 2020

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

RE: Cotton Draw 221 Devon

OrderNo.: 2003B53

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 9 sample(s) on 3/25/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

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 2003B53

Date Reported: 3/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety Environmental Services

Client Sample ID: SP-1 Bottom 1.5'

Project: Cotton Draw 221 Devon

Collection Date: 3/23/2020 2:15:00 PM

Lab ID: 2003B53-001

Matrix: SOIL

Received Date: 3/25/2020 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	140	59		mg/Kg	20	3/29/2020 7:43:59 PM	51389
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/29/2020 11:24:16 PM	51354
Surr: BFB	98.8	70-130		%Rec	1	3/29/2020 11:24:16 PM	51354
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/27/2020 9:47:40 AM	51355
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/27/2020 9:47:40 AM	51355
Surr: DNOP	101	55.1-146		%Rec	1	3/27/2020 9:47:40 AM	51355
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	3/29/2020 11:24:16 PM	51354
Toluene	ND	0.048		mg/Kg	1	3/29/2020 11:24:16 PM	51354
Ethylbenzene	ND	0.048		mg/Kg	1	3/29/2020 11:24:16 PM	51354
Xylenes, Total	ND	0.097		mg/Kg	1	3/29/2020 11:24:16 PM	51354
Surr: 1,2-Dichloroethane-d4	82.1	70-130		%Rec	1	3/29/2020 11:24:16 PM	51354
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	3/29/2020 11:24:16 PM	51354
Surr: Dibromofluoromethane	101	70-130		%Rec	1	3/29/2020 11:24:16 PM	51354
Surr: Toluene-d8	106	70-130		%Rec	1	3/29/2020 11:24:16 PM	51354

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		

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Analytical Report

Lab Order 2003B53

Date Reported: 3/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety Environmental Services

Client Sample ID: SP-2 BottoM 1.5'

Project: Cotton Draw 221 Devon

Collection Date: 3/23/2020 2:35:00 PM

Lab ID: 2003B53-002

Matrix: SOIL

Received Date: 3/25/2020 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	84	60		mg/Kg	20	3/29/2020 8:21:13 PM	51389
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/30/2020 12:50:21 AM	51354
Surr: BFB	95.5	70-130		%Rec	1	3/30/2020 12:50:21 AM	51354
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	83	9.4		mg/Kg	1	3/27/2020 10:59:42 AM	51355
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/27/2020 10:59:42 AM	51355
Surr: DNOP	94.8	55.1-146		%Rec	1	3/27/2020 10:59:42 AM	51355
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	3/30/2020 12:50:21 AM	51354
Toluene	ND	0.049		mg/Kg	1	3/30/2020 12:50:21 AM	51354
Ethylbenzene	ND	0.049		mg/Kg	1	3/30/2020 12:50:21 AM	51354
Xylenes, Total	ND	0.097		mg/Kg	1	3/30/2020 12:50:21 AM	51354
Surr: 1,2-Dichloroethane-d4	80.3	70-130		%Rec	1	3/30/2020 12:50:21 AM	51354
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	3/30/2020 12:50:21 AM	51354
Surr: Dibromofluoromethane	100	70-130		%Rec	1	3/30/2020 12:50:21 AM	51354
Surr: Toluene-d8	102	70-130		%Rec	1	3/30/2020 12:50:21 AM	51354

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		

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Analytical Report

Lab Order 2003B53

Date Reported: 3/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety Environmental Services

Client Sample ID: SP-3 West Wall

Project: Cotton Draw 221 Devon

Collection Date: 3/23/2020 2:55:00 PM

Lab ID: 2003B53-003

Matrix: SOIL

Received Date: 3/25/2020 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	110	59		mg/Kg	20	3/29/2020 8:33:38 PM	51389
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/30/2020 2:16:29 AM	51354
Surr: BFB	98.9	70-130		%Rec	1	3/30/2020 2:16:29 AM	51354
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/27/2020 11:23:36 AM	51355
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/27/2020 11:23:36 AM	51355
Surr: DNOP	101	55.1-146		%Rec	1	3/27/2020 11:23:36 AM	51355
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.023		mg/Kg	1	3/30/2020 2:16:29 AM	51354
Toluene	ND	0.046		mg/Kg	1	3/30/2020 2:16:29 AM	51354
Ethylbenzene	ND	0.046		mg/Kg	1	3/30/2020 2:16:29 AM	51354
Xylenes, Total	ND	0.092		mg/Kg	1	3/30/2020 2:16:29 AM	51354
Surr: 1,2-Dichloroethane-d4	70.7	70-130		%Rec	1	3/30/2020 2:16:29 AM	51354
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	3/30/2020 2:16:29 AM	51354
Surr: Dibromofluoromethane	103	70-130		%Rec	1	3/30/2020 2:16:29 AM	51354
Surr: Toluene-d8	106	70-130		%Rec	1	3/30/2020 2:16:29 AM	51354

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		

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Analytical Report

Lab Order 2003B53

Date Reported: 3/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety Environmental Services

Client Sample ID: SP-4 North Wall

Project: Cotton Draw 221 Devon

Collection Date: 3/24/2020 8:40:00 AM

Lab ID: 2003B53-004

Matrix: SOIL

Received Date: 3/25/2020 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	100	60		mg/Kg	20	3/29/2020 8:46:03 PM	51389
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/30/2020 2:45:10 AM	51354
Surr: BFB	100	70-130		%Rec	1	3/30/2020 2:45:10 AM	51354
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	3/27/2020 11:47:33 AM	51355
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/27/2020 11:47:33 AM	51355
Surr: DNOP	100	55.1-146		%Rec	1	3/27/2020 11:47:33 AM	51355
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	3/30/2020 2:45:10 AM	51354
Toluene	ND	0.050		mg/Kg	1	3/30/2020 2:45:10 AM	51354
Ethylbenzene	ND	0.050		mg/Kg	1	3/30/2020 2:45:10 AM	51354
Xylenes, Total	ND	0.10		mg/Kg	1	3/30/2020 2:45:10 AM	51354
Surr: 1,2-Dichloroethane-d4	76.5	70-130		%Rec	1	3/30/2020 2:45:10 AM	51354
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	1	3/30/2020 2:45:10 AM	51354
Surr: Dibromofluoromethane	99.3	70-130		%Rec	1	3/30/2020 2:45:10 AM	51354
Surr: Toluene-d8	105	70-130		%Rec	1	3/30/2020 2:45:10 AM	51354

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		

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Analytical Report

Lab Order 2003B53

Date Reported: 3/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety Environmental Services

Client Sample ID: SP-5 East Wall

Project: Cotton Draw 221 Devon

Collection Date: 3/24/2020 8:45:00 AM

Lab ID: 2003B53-005

Matrix: SOIL

Received Date: 3/25/2020 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	61	59		mg/Kg	20	3/29/2020 8:58:27 PM	51389
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/30/2020 3:13:50 AM	51354
Surr: BFB	94.1	70-130		%Rec	1	3/30/2020 3:13:50 AM	51354
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/27/2020 12:11:31 PM	51355
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/27/2020 12:11:31 PM	51355
Surr: DNOP	98.6	55.1-146		%Rec	1	3/27/2020 12:11:31 PM	51355
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.023		mg/Kg	1	3/30/2020 3:13:50 AM	51354
Toluene	ND	0.047		mg/Kg	1	3/30/2020 3:13:50 AM	51354
Ethylbenzene	ND	0.047		mg/Kg	1	3/30/2020 3:13:50 AM	51354
Xylenes, Total	ND	0.093		mg/Kg	1	3/30/2020 3:13:50 AM	51354
Surr: 1,2-Dichloroethane-d4	78.1	70-130		%Rec	1	3/30/2020 3:13:50 AM	51354
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	3/30/2020 3:13:50 AM	51354
Surr: Dibromofluoromethane	103	70-130		%Rec	1	3/30/2020 3:13:50 AM	51354
Surr: Toluene-d8	101	70-130		%Rec	1	3/30/2020 3:13:50 AM	51354

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		

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Analytical Report

Lab Order 2003B53

Date Reported: 3/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety Environmental Services

Client Sample ID: SP-6 Bottom 1'

Project: Cotton Draw 221 Devon

Collection Date: 3/24/2020 8:55:00 AM

Lab ID: 2003B53-006

Matrix: SOIL

Received Date: 3/25/2020 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	580	60		mg/Kg	20	3/29/2020 9:35:40 PM	51389
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/30/2020 3:42:28 AM	51354
Surr: BFB	94.9	70-130		%Rec	1	3/30/2020 3:42:28 AM	51354
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	79	9.9		mg/Kg	1	3/27/2020 12:35:32 PM	51355
Motor Oil Range Organics (MRO)	81	50		mg/Kg	1	3/27/2020 12:35:32 PM	51355
Surr: DNOP	91.1	55.1-146		%Rec	1	3/27/2020 12:35:32 PM	51355
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	3/30/2020 3:42:28 AM	51354
Toluene	ND	0.047		mg/Kg	1	3/30/2020 3:42:28 AM	51354
Ethylbenzene	ND	0.047		mg/Kg	1	3/30/2020 3:42:28 AM	51354
Xylenes, Total	ND	0.095		mg/Kg	1	3/30/2020 3:42:28 AM	51354
Surr: 1,2-Dichloroethane-d4	76.8	70-130		%Rec	1	3/30/2020 3:42:28 AM	51354
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	3/30/2020 3:42:28 AM	51354
Surr: Dibromofluoromethane	97.0	70-130		%Rec	1	3/30/2020 3:42:28 AM	51354
Surr: Toluene-d8	104	70-130		%Rec	1	3/30/2020 3:42:28 AM	51354

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		

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Analytical Report

Lab Order 2003B53

Date Reported: 3/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety Environmental Services

Client Sample ID: SP-7 Bottom 1'

Project: Cotton Draw 221 Devon

Collection Date: 3/24/2020 9:10:00 AM

Lab ID: 2003B53-007

Matrix: SOIL

Received Date: 3/25/2020 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	840	60		mg/Kg	20	3/29/2020 9:48:04 PM	51389
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/30/2020 4:11:06 AM	51354
Surr: BFB	94.9	70-130		%Rec	1	3/30/2020 4:11:06 AM	51354
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	69	9.6		mg/Kg	1	3/27/2020 12:59:33 PM	51355
Motor Oil Range Organics (MRO)	79	48		mg/Kg	1	3/27/2020 12:59:33 PM	51355
Surr: DNOP	96.0	55.1-146		%Rec	1	3/27/2020 12:59:33 PM	51355
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.023		mg/Kg	1	3/30/2020 4:11:06 AM	51354
Toluene	ND	0.046		mg/Kg	1	3/30/2020 4:11:06 AM	51354
Ethylbenzene	ND	0.046		mg/Kg	1	3/30/2020 4:11:06 AM	51354
Xylenes, Total	ND	0.093		mg/Kg	1	3/30/2020 4:11:06 AM	51354
Surr: 1,2-Dichloroethane-d4	79.9	70-130		%Rec	1	3/30/2020 4:11:06 AM	51354
Surr: 4-Bromofluorobenzene	94.7	70-130		%Rec	1	3/30/2020 4:11:06 AM	51354
Surr: Dibromofluoromethane	96.6	70-130		%Rec	1	3/30/2020 4:11:06 AM	51354
Surr: Toluene-d8	99.5	70-130		%Rec	1	3/30/2020 4:11:06 AM	51354

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		

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Analytical Report

Lab Order 2003B53

Date Reported: 3/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety Environmental Services

Client Sample ID: SP-8 South Wall

Project: Cotton Draw 221 Devon

Collection Date: 3/24/2020 9:30:00 AM

Lab ID: 2003B53-008

Matrix: SOIL

Received Date: 3/25/2020 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	1200	60		mg/Kg	20	3/29/2020 10:00:29 PM	51389
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/30/2020 4:39:42 AM	51354
Surr: BFB	101	70-130		%Rec	1	3/30/2020 4:39:42 AM	51354
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	52	9.9		mg/Kg	1	3/27/2020 1:23:38 PM	51355
Motor Oil Range Organics (MRO)	59	49		mg/Kg	1	3/27/2020 1:23:38 PM	51355
Surr: DNOP	97.1	55.1-146		%Rec	1	3/27/2020 1:23:38 PM	51355
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.023		mg/Kg	1	3/30/2020 4:39:42 AM	51354
Toluene	ND	0.046		mg/Kg	1	3/30/2020 4:39:42 AM	51354
Ethylbenzene	ND	0.046		mg/Kg	1	3/30/2020 4:39:42 AM	51354
Xylenes, Total	ND	0.092		mg/Kg	1	3/30/2020 4:39:42 AM	51354
Surr: 1,2-Dichloroethane-d4	70.2	70-130		%Rec	1	3/30/2020 4:39:42 AM	51354
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	3/30/2020 4:39:42 AM	51354
Surr: Dibromofluoromethane	103	70-130		%Rec	1	3/30/2020 4:39:42 AM	51354
Surr: Toluene-d8	105	70-130		%Rec	1	3/30/2020 4:39:42 AM	51354

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		

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Analytical Report

Lab Order 2003B53

Date Reported: 3/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety Environmental Services

Client Sample ID: SP-9 Surface

Project: Cotton Draw 221 Devon

Collection Date: 3/24/2020 10:00:00 AM

Lab ID: 2003B53-009

Matrix: SOIL

Received Date: 3/25/2020 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	66	60		mg/Kg	20	3/29/2020 10:12:54 PM	51389
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/30/2020 12:45:17 PM	51354
Surr: BFB	92.8	70-130		%Rec	1	3/30/2020 12:45:17 PM	51354
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	71	9.6		mg/Kg	1	3/27/2020 1:47:43 PM	51355
Motor Oil Range Organics (MRO)	55	48		mg/Kg	1	3/27/2020 1:47:43 PM	51355
Surr: DNOP	98.2	55.1-146		%Rec	1	3/27/2020 1:47:43 PM	51355
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.023		mg/Kg	1	3/30/2020 12:45:17 PM	51354
Toluene	ND	0.046		mg/Kg	1	3/30/2020 12:45:17 PM	51354
Ethylbenzene	ND	0.046		mg/Kg	1	3/30/2020 12:45:17 PM	51354
Xylenes, Total	ND	0.092		mg/Kg	1	3/30/2020 12:45:17 PM	51354
Surr: 1,2-Dichloroethane-d4	88.3	70-130		%Rec	1	3/30/2020 12:45:17 PM	51354
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	3/30/2020 12:45:17 PM	51354
Surr: Dibromofluoromethane	90.9	70-130		%Rec	1	3/30/2020 12:45:17 PM	51354
Surr: Toluene-d8	109	70-130		%Rec	1	3/30/2020 12:45:17 PM	51354

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		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2003B53

31-Mar-20

Client: Safety Environmental Services

Project: Cotton Draw 221 Devon

Sample ID: MB-51389		SampType: mblk		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 51389		RunNo: 67692						
Prep Date: 3/29/2020		Analysis Date: 3/29/2020		SeqNo: 2337033			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-51389		SampType: lcs		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 51389		RunNo: 67692						
Prep Date: 3/29/2020		Analysis Date: 3/29/2020		SeqNo: 2337034			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.9	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

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

WO#: 2003B53

31-Mar-20

Client: Safety Environmental Services**Project:** Cotton Draw 221 Devon

Sample ID: MB-51355	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 51355	RunNo: 67623								
Prep Date: 3/26/2020	Analysis Date: 3/27/2020	SeqNo: 2334371 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		93.5	55.1	146			

Sample ID: LCS-51355	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 51355	RunNo: 67623								
Prep Date: 3/26/2020	Analysis Date: 3/27/2020	SeqNo: 2334372 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.2	70	130			
Surr: DNOP	4.5		5.000		90.6	55.1	146			

Sample ID: 2003B53-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SP-1 Bottom 1.5'	Batch ID: 51355	RunNo: 67623								
Prep Date: 3/26/2020	Analysis Date: 3/27/2020	SeqNo: 2334374 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.1	45.58	0	90.2	47.4	136			
Surr: DNOP	4.1		4.558		90.1	55.1	146			

Sample ID: 2003B53-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SP-1 Bottom 1.5'	Batch ID: 51355	RunNo: 67623								
Prep Date: 3/26/2020	Analysis Date: 3/27/2020	SeqNo: 2334998 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.2	46.08	0	97.8	47.4	136	9.20	43.4	
Surr: DNOP	4.6		4.608		99.1	55.1	146	0	0	

Qualifiers:

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

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

Page 11 of 14

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

WO#: 2003B53

31-Mar-20

Client: Safety Environmental Services**Project:** Cotton Draw 221 Devon

Sample ID: 2003b53-001ams	SampType: MS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: SP-1 Bottom 1.5'	Batch ID: 51354	RunNo: 67682								
Prep Date: 3/26/2020	Analysis Date: 3/29/2020	SeqNo: 2336683	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.024	0.9425	0	88.8	70	130			
Toluene	0.99	0.047	0.9425	0	105	70	130			
Ethylbenzene	1.0	0.047	0.9425	0	108	70	130			
Xylenes, Total	3.1	0.094	2.828	0	110	70	130			
Surr: 1,2-Dichloroethane-d4	0.39		0.4713		81.9	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.4713		101	70	130			
Surr: Dibromofluoromethane	0.47		0.4713		100	70	130			
Surr: Toluene-d8	0.51		0.4713		108	70	130			

Sample ID: 2003b53-001amsd	SampType: MSD	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: SP-1 Bottom 1.5'	Batch ID: 51354	RunNo: 67682								
Prep Date: 3/26/2020	Analysis Date: 3/30/2020	SeqNo: 2336684	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	0.9950	0	81.6	70	130	3.00	20	
Toluene	1.0	0.050	0.9950	0	102	70	130	2.21	20	
Ethylbenzene	1.0	0.050	0.9950	0	106	70	130	3.24	0	
Xylenes, Total	3.2	0.10	2.985	0	108	70	130	3.14	0	
Surr: 1,2-Dichloroethane-d4	0.40		0.4975		80.2	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.50		0.4975		101	70	130	0	0	
Surr: Dibromofluoromethane	0.49		0.4975		97.9	70	130	0	0	
Surr: Toluene-d8	0.53		0.4975		106	70	130	0	0	

Sample ID: lcs-51354	SampType: LCS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: LCSS	Batch ID: 51354	RunNo: 67682								
Prep Date: 3/26/2020	Analysis Date: 3/29/2020	SeqNo: 2336709	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.3	70	130			
Toluene	1.0	0.050	1.000	0	101	70	130			
Ethylbenzene	1.1	0.050	1.000	0	107	70	130			
Xylenes, Total	3.1	0.10	3.000	0	104	70	130			
Surr: 1,2-Dichloroethane-d4	0.38		0.5000		76.1	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.6	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		103	70	130			
Surr: Toluene-d8	0.51		0.5000		103	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#: 2003B53
31-Mar-20

Client: Safety Environmental Services
Project: Cotton Draw 221 Devon

Sample ID: mb-51354	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 51354	RunNo: 67682								
Prep Date: 3/26/2020	Analysis Date: 3/29/2020	SeqNo: 2336710		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.42		0.5000		83.6	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.5	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		102	70	130			
Surr: Toluene-d8	0.50		0.5000		100	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#: 2003B53

31-Mar-20

Client: Safety Environmental Services**Project:** Cotton Draw 221 Devon

Sample ID: 2003b53-002ams	SampType: MS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: SP-2 BottoM 1.5'	Batch ID: 51354	RunNo: 67682								
Prep Date: 3/26/2020	Analysis Date: 3/30/2020	SeqNo: 2336715	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	4.8	24.04	0	74.1	70	130			
Surr: BFB	490		480.8		101	70	130			

Sample ID: 2003b53-002amsd	SampType: MSD	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: SP-2 BottoM 1.5'	Batch ID: 51354	RunNo: 67682								
Prep Date: 3/26/2020	Analysis Date: 3/30/2020	SeqNo: 2336716	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	5.0	24.78	0	75.3	70	130	4.69	20	
Surr: BFB	500		495.5		100	70	130	0	0	

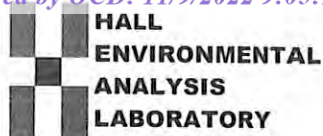
Sample ID: lcs-51354	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 51354	RunNo: 67682								
Prep Date: 3/26/2020	Analysis Date: 3/29/2020	SeqNo: 2336742	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	5.0	25.00	0	77.2	70	130			
Surr: BFB	500		500.0		99.8	70	130			

Sample ID: mb-51354	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 51354	RunNo: 67682								
Prep Date: 3/26/2020	Analysis Date: 3/29/2020	SeqNo: 2336743	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	480		500.0		96.9	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: 2003B53

RcptNo: 1

Received By: Juan Rojas

3/25/2020 8:30:00 AM

Completed By: Anne Thorne

3/25/2020 4:27:24 PM

Reviewed By: DAD 3/26/20

Chain of Custody

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

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°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:

IO
3/26/20
(<2 or >12 unless noted)

Adjusted?

Checked by:

Special Handling (if applicable)

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

Person Notified:

Date

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.2	Good	Yes			

Chain-of-Custody Record		Turn-Around Time:
Client: <i>Safety & Environment</i>		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush <i>5 day Turn</i>
Mailing Address: <i>Solution</i>	Project Name: <i>Devon Cotton Draw 221</i>	
<i>16bbbs N.W. 88240</i>	<i>wo# 20838990</i>	Project #: <i>DEV-20-019</i>
Phone #: <i>575-397-0510</i>		

Turn-Around Time:	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush
Project Name:	DEV-20-019 Cotton Draw 221 WO# 20838990
Project #:	5 day Turn

email or Fax#:	Project Manager: <i>Allen, Bob</i>
QA/QC Package:	
<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Level 4 (Full Validation)
Accreditation:	<input type="checkbox"/> Az Compliance
<input type="checkbox"/> NELAC	<input type="checkbox"/> Other _____
<input type="checkbox"/> EDD (Type) _____	
	Sampler: <i>Son Jon</i>
	On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	# of Coolers: <i>1</i>

Project Manager:	Allen, Bob	
Sampler:	Son Jun	
On Ice:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
# of Coolers:	1	

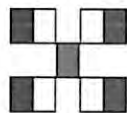
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	Cooler Temp (including CF): 0.2-0.2 (°C)
3/23	1415	S	SP-1 Bottom 1.5 ft	1	FW	2003B53	201
3/23	1435	S	SP-2 Bottom 1.5 ft	1	FW	202	202
3/23	1455	S	SP-3 water	1		203	203
3/24	0840	S	SP-4 water	1		204	204
3/24	0845	S	SP-5 water	1		205	205
3/24	0855	S	SP-6 Bottom 1 ft	1		206	206
3/24	0910	S	SP-7 Bottom 1 ft	1		207	207
3/24	0930	S	SP-8 south water	1		208	208
3/24	1000	S	SP-9 Surface	1		209	209

Cooler Temp (including CF): 0.2-0.2 (°C)	Container Type and #	Preservative Type	HEAL No.
	1	PC	2003B53
	1	PC	201
	1	PC	202
	1		203
	1		204
	1		205
	1		206
	1		207
	1		208
	1		209

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
3/24/20	1700	[Signature]	[Signature]		3/24/20	1700
3/24/20	1900	[Signature]	[Signature]		3/25/20	8:30

		Via:	Date	Time
Received by:	[Signature]		3/24/20	1700
Received by:	[Signature]		3/25/20	8:30

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

Remarks:

Bill Devon
Direct



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

June 08, 2020

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

RE: Devon Cotton Draw 221 H

OrderNo.: 2005D04

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/30/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

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 2005D04

Date Reported: 6/8/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: AH-16 Surface North

Project: Devon Cotton Draw 221 H

Collection Date: 5/28/2020 10:50:00 AM

Lab ID: 2005D04-001

Matrix: SOIL

Received Date: 5/30/2020 8:22:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/5/2020 10:23:54 PM	52903
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/31/2020 7:01:11 PM	52791
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/31/2020 7:01:11 PM	52791
Surr: DNOP	72.1	55.1-146		%Rec	1	5/31/2020 7:01:11 PM	52791
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/1/2020 8:08:08 PM	52788
Surr: BFB	80.3	66.6-105		%Rec	1	6/1/2020 8:08:08 PM	52788
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/1/2020 8:08:08 PM	52788
Toluene	ND	0.049		mg/Kg	1	6/1/2020 8:08:08 PM	52788
Ethylbenzene	ND	0.049		mg/Kg	1	6/1/2020 8:08:08 PM	52788
Xylenes, Total	ND	0.098		mg/Kg	1	6/1/2020 8:08:08 PM	52788
Surr: 4-Bromofluorobenzene	92.2	80-120		%Rec	1	6/1/2020 8:08:08 PM	52788

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

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

Page 1 of 8

Analytical Report

Lab Order 2005D04

Date Reported: 6/8/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: AH-17 Surface South

Project: Devon Cotton Draw 221 H

Collection Date: 5/28/2020 11:00:00 AM

Lab ID: 2005D04-002

Matrix: SOIL

Received Date: 5/30/2020 8:22:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/5/2020 10:36:19 PM	52903
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/31/2020 7:25:34 PM	52791
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/31/2020 7:25:34 PM	52791
Surr: DNOP	68.3	55.1-146		%Rec	1	5/31/2020 7:25:34 PM	52791
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/1/2020 8:31:34 PM	52788
Surr: BFB	79.3	66.6-105		%Rec	1	6/1/2020 8:31:34 PM	52788
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	6/1/2020 8:31:34 PM	52788
Toluene	ND	0.047		mg/Kg	1	6/1/2020 8:31:34 PM	52788
Ethylbenzene	ND	0.047		mg/Kg	1	6/1/2020 8:31:34 PM	52788
Xylenes, Total	ND	0.094		mg/Kg	1	6/1/2020 8:31:34 PM	52788
Surr: 4-Bromofluorobenzene	91.9	80-120		%Rec	1	6/1/2020 8:31:34 PM	52788

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

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

Page 2 of 8

Analytical Report

Lab Order 2005D04

Date Reported: 6/8/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: AH-18 Surface East

Project: Devon Cotton Draw 221 H

Collection Date: 5/28/2020 11:15:00 AM

Lab ID: 2005D04-003

Matrix: SOIL

Received Date: 5/30/2020 8:22:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/5/2020 10:48:43 PM	52903
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/31/2020 7:50:00 PM	52791
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/31/2020 7:50:00 PM	52791
Surr: DNOP	66.1	55.1-146		%Rec	1	5/31/2020 7:50:00 PM	52791
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/1/2020 8:54:57 PM	52788
Surr: BFB	80.2	66.6-105		%Rec	1	6/1/2020 8:54:57 PM	52788
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/1/2020 8:54:57 PM	52788
Toluene	ND	0.048		mg/Kg	1	6/1/2020 8:54:57 PM	52788
Ethylbenzene	ND	0.048		mg/Kg	1	6/1/2020 8:54:57 PM	52788
Xylenes, Total	ND	0.096		mg/Kg	1	6/1/2020 8:54:57 PM	52788
Surr: 4-Bromofluorobenzene	93.2	80-120		%Rec	1	6/1/2020 8:54:57 PM	52788

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

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

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Analytical Report

Lab Order 2005D04

Date Reported: 6/8/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: AH-19 Surface West

Project: Devon Cotton Draw 221 H

Collection Date: 5/28/2020 11:30:00 AM

Lab ID: 2005D04-004

Matrix: SOIL

Received Date: 5/30/2020 8:22:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/5/2020 11:01:07 PM	52903
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	5/31/2020 8:14:42 PM	52791
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/31/2020 8:14:42 PM	52791
Surr: DNOP	52.3	55.1-146	S	%Rec	1	5/31/2020 8:14:42 PM	52791
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/1/2020 9:18:21 PM	52788
Surr: BFB	80.0	66.6-105		%Rec	1	6/1/2020 9:18:21 PM	52788
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/1/2020 9:18:21 PM	52788
Toluene	ND	0.047		mg/Kg	1	6/1/2020 9:18:21 PM	52788
Ethylbenzene	ND	0.047		mg/Kg	1	6/1/2020 9:18:21 PM	52788
Xylenes, Total	ND	0.094		mg/Kg	1	6/1/2020 9:18:21 PM	52788
Surr: 4-Bromofluorobenzene	92.5	80-120		%Rec	1	6/1/2020 9:18:21 PM	52788

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

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

Page 4 of 8

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2005D04
08-Jun-20

Client: Safety & Environmental Solutions
Project: Devon Cotton Draw 221 H

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

Sample ID: LCS-52903	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 52903	RunNo: 69444
Prep Date: 6/5/2020	Analysis Date: 6/5/2020	SeqNo: 2409024 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 91.8 90 110

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical 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#: 2005D04

08-Jun-20

Client: Safety & Environmental Solutions**Project:** Devon Cotton Draw 221 H

Sample ID: LCS-52791	SampType: LCS				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 52791				RunNo: 69277					
Prep Date: 5/31/2020	Analysis Date: 5/31/2020				SeqNo: 2401817	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	70	130			
Surr: DNOP	3.6		5.000		72.3	55.1	146			

Sample ID: MB-52791	SampType: MBLK				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 52791				RunNo: 69277					
Prep Date: 5/31/2020	Analysis Date: 5/31/2020				SeqNo: 2401818	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.5		10.00		85.0	55.1	146			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical 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#: 2005D04

08-Jun-20

Client: Safety & Environmental Solutions

Project: Devon Cotton Draw 221 H

Sample ID: mb-52788	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 52788	RunNo: 69307								
Prep Date: 5/31/2020	Analysis Date: 6/1/2020	SeqNo: 2403247	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	820		1000		82.3	66.6	105			

Sample ID: lcs-52788	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 52788	RunNo: 69307								
Prep Date: 5/31/2020	Analysis Date: 6/1/2020	SeqNo: 2403248	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	81.6	80	120			
Surr: BFB	890		1000		89.3	66.6	105			

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical 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#: 2005D04

08-Jun-20

Client: Safety & Environmental Solutions**Project:** Devon Cotton Draw 221 H

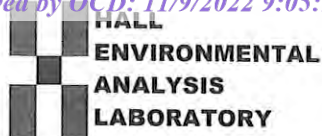
Sample ID: mb-52788	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 52788	RunNo: 69307								
Prep Date: 5/31/2020	Analysis Date: 6/1/2020	SeqNo: 2403285	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		94.3	80	120			

Sample ID: LCS-52788	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 52788	RunNo: 69307								
Prep Date: 5/31/2020	Analysis Date: 6/1/2020	SeqNo: 2403286	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.0	80	120			
Toluene	0.98	0.050	1.000	0	98.3	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.3	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.4	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.2	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical 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: 2005D04

RcptNo: 1

Received By: Isaiah Ortiz 5/30/2020 8:22:00 AM

Completed By: Isaiah Ortiz 5/30/2020 8:55:50 AM

Reviewed By: LB 5/30/20

I-OK
I-OK

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

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

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.1	Good	Not Present			

Devon Energy

CDU 221H



Incident ID	NAB1911936996
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: Dale Woodall Title: Env. Professional
Signature: Dale Woodall Date: 11/9/2022
email: dale.woodall@dvn.com Telephone: 575-748-1838

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: _____

Incident ID	NAB19122032237
District RP	
Facility ID	
Application ID	

Closure

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Signature: Dale Woodall Date: 11/9/2022
email: dale.woodall@dvn.com Telephone: 575-748-1838

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Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 157281

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 157281
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	Closure is approved. - Duplicate of Application 157279 approved in 2023.	3/12/2024