

P.O. Box 1708 • Artesia, NM 88211 www.hrlcomp.com

July 2, 2020

Mr. Tom Bynum
Devon Energy
6488 Seven Rivers Highway
Artesia, New Mexico 88211
Email: tom.bynum@dvn.com

Subject:

Site Characterization, Remediation Plan, and Cost Estimate

Cotton Draw Unit #509H (February 2019)

1RP-5384

Lea County, New Mexico

Dear Mr. Bynum:

HRL Compliance Solutions, Inc. (HRL) is pleased to submit this site characterization report, remediation plan, and remediation cost estimate for the February 2019 release at the Cotton Draw Unit #509H (Site). The release is at latitude 32.1245605 and longitude -103.7077354 in Lea County, New Mexico (Figure 1).

Site Background

On February 12, 2019, a release of five barrels (bbls.) of oil and 16 bbls of produced water was observed at the site. The release occurred when a valve on the chemical line and attached to the flow line failed. The released fluid impacted the well pad. Two bbls. of crude oil and 14 bbls. of produced water were recovered.

Because the volume released was between five bbls. and 25 bbls., this is considered a minor release according to the New Mexico Oil Conservation Division (NMOCD). On February 25, 2019, Devon reported the release to the NMOCD on a Release Notification and Corrective Action Form (Form C-141) (Attachment A). The release was assigned Remediation Permit (RP) number 1RP-5384.

Scope of Work

Devon has requested HRL to provide the following deliverables:

- Research the information as specified in the Site Characterization NMOCD Form C-141
- Prepare a map with sample points labeled
- Prepare a table summarizing the results obtained during the site characterization activities
- Prepare a site characterization report including a remediation plan per NMOCD closure requirements and related cost estimates



New Mexico Administrative Code (NMAC) Site Characterization Criteria

Title 19, Chapter 15, Part 29, Section 11 of the New Mexico Administrative Code (NMAC) provides requirements for release characterization once the free liquids and recoverable materials have been removed from the Site.

Depth to Groundwater

Depth to groundwater at the release was estimated by evaluating data from the New Mexico Office of the State Engineer (NMOSE) and the United States Geological Survey (USGS) (Figure 2). The nearest groundwater well was approximately 3.17 miles from the Site; the depth to water in this well was 400 feet below ground surface (bgs).

Wellhead Protection Area

There are no sources of water, including springs, wells, or other sources of fresh water, within one-half mile of the release (Figure 2).

Distance to Nearest Significant Watercourse

A significant watercourse is defined as "...a watercourse with a defined bed and bank either named or identified by a dashed blue line on a USGS 7.5-minute quadrangle map or the next lower order tributary with a defined bed and bank" (19.15.17.7 NMAC) (Figure 2). There are no significant watercourses within one-half mile of the lateral extent of the release.

Additional Site Characterization Criteria

The following is additional information related to characterization of the Site.

Site Characterization	Response/Discussion
What is the shallowest depth to groundwater beneath the area affected by the release?	Greater than 100 feet
Did the release impact groundwater or surface water?	No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or other significant watercourse?	No
Are the lateral extents of the release within 200 feet of a lakebed, sinkhole, or playa lake?	No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital institution, or church?	No
Are the lateral extents of the release within 500 feet of a spring or private, domestic fresh water well used by less than five households for domestic or stock watering purposes?	No



Site Characterization	Response/Discussion
Are the lateral extents of the release within 1,000 feet of any fresh water well or spring?	No
Are the lateral extents of the release within any incorporated municipal boundaries?	No
Are the lateral extents of the release within a defined municipal fresh water well field?	No
Are the lateral extents of the release within 300 feet of a wetland?	No
Are the lateral extents of the release overlying a subsurface mine?	No
Are the lateral extents of the release overlying an unstable area such as karst geology?	The Site is in an area of low potential for karst topography
Are the lateral extents of the release within the 100-year floodplain?	No
Did the release impact areas not on an exploration, development, production, or storage site?	No

Site Delineation

Prior to initiating field activities, HRL submitted a Mechanical Excavation Permit to Devon Energy and had subsurface utilities located at the Site. On March 14, 2020, HRL mobilized to the Site to evaluate the release. Soil samples were collected for analysis in the field (field screening) by one or more of the following methods:

- Chloride was approximated using an electrical conductivity (EC) meter in accordance with methods recommended by the U.S. Department of Agriculture (USDA) Natural Resource Conservation Service (NRCS)
- Non-specific volatile organic compounds (VOCs) were measured using a photoionization detector (PID) with a 10.6 electron-volt (eV) lamp
- Total petroleum hydrocarbons (TPH) was measured using a PetroFlag® field test kit in accordance with U.S. Environmental Protection Agency (EPA) Method 9074

Based on the results of the field screening, HRL returned to the Site on April 10, 2020 and collected six soil samples (SP1, SP2, SP3, SP4, SP5@0", and SP5@36") for laboratory analysis. Samples were immediately placed on ice and kept under strict chain of custody protocol prior to submission to Hall Environmental Analysis Laboratory of Albuquerque, New Mexico for analysis of (Attachment B):

- Chloride by United States Environmental Protection Agency (US EPA) Method 300.0
- Benzene, toluene, ethyl benzene, and total xylenes (BTEX) by US EPA Method 8021B
- Total petroleum hydrocarbons (TPH) gasoline range organics (GRO), diesel range organics (DRO), and oil range organics (ORO) by US EPA Method 8015M



HRL utilized a Trimble GeoXT global positioning system (GPS) unit to collect latitude and longitude data for the sample locations (Figure 3). Based on evaluation of the laboratory results, the release impacted a surficial area of approximately 3,780 square-feet to a depth of approximately 30 inches bgs.

Closure Criteria

Based on the NMAC Site Characterization Criteria, HRL recommends the following NMOCD Closure Criteria to the Site:

Depth to Groundwater	Parameter	Closure Criteria in milligrams per kilogram (mg/kg)
	Chloride	20,000 mg/kg or natural background, whichever is greater
Greater than 100 feet below	Total Petroleum Hydrocarbons (TPH) [Gasoline Range Organics (GRO) + Diesel Range Organics (DRO) + Oil Range Organics (ORO)]	2,500 mg/kg
ground surface	Gasoline Range Organics (GRO) + Diesel Range Organics (DRO)	1,000 mg/kg
	Benzene	10 mg/kg
	Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX)	50 mg/kg

Remediation Plan

A scaled diagram depicting the area of investigation and nearby significant features, such as roads, site infrastructure, location of borings, sample points, monitoring wells (if present), and subsurface features (if data was available) has been prepared (Figure 3). HRL utilized a Trimble GeoXT global positioning system (GPS) unit to collect latitude and longitude data for the sample locations.

TPH concentrations in soil exceeded applicable NMOCD closure criteria in SP5 to depth not greater than 36 inches bgs (Table 1). To achieve the NMOCD closure criteria listed above, HRL recommends remediation of the impacted soil by excavation and off-site disposal at an NMOCD approved facility. Excavation oversight and subsequent collection of confirmatory soil samples in accordance with 19.15.29 NMAC should be conducted by a qualified environmental consulting firm to facilitate closure acceptance of the release by the NMOCD. HRL estimates that impacted soil will be excavated from an area of 3,780 square feet to a depth of 30 inches bgs, resulting in approximately 350 cubic yards of impacted soil removed from the Site for off-site disposal. Since the impacted area is on the well pad, the excavation will be backfilled with caliche or similar clean backfill and compacted or otherwise stabilized to minimize dust and erosion.

HRL estimates that the remediation can be completed within 90 days of notice to proceed and the cost to complete this remediation is provided in Attachment C.

This cost estimate is based on the following assumptions:



- 350 yards of impacted soil will be removed and disposed of off-site; disposal fees are included at a rate of \$31 per yard
- 29 confirmatory soil samples will be submitted for laboratory analysis of BTEX, TPH, and total
- 350 yards of clean backfill will be placed back in the excavation after receipt of confirmatory soil sample results that are below applicable standards
- Excavation oversight and confirmatory soil sampling can be completed in three field days
- Oversight of backfilling can be completed or verified in one field day
- Preparation and submission of a closure report to NMOCD

Scope and Limitations

The scope of HRL's services consists of performing site characterization and preparation of this site characterization report and remediation plan. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin.

We appreciate the opportunity to work with Devon on this project. If you have any questions or concerns, please do not hesitate to contact me at (970) 243-3271 or via email at jlinn@hrlcomp.com.

Sincerely,

HRL Compliance Solutions, Inc.

Project Manager

Julie Linn, PG, RG

Figures:

Figure 1: Site Location

Figure 2: Depth to Groundwater

Figure 3: Sample Location and Results

Tables:

Table 1: Analytical Laboratory Results

Attachments:

Attachment A: NMOCD Form C-141

Attachment B: Analytical Laboratory Report

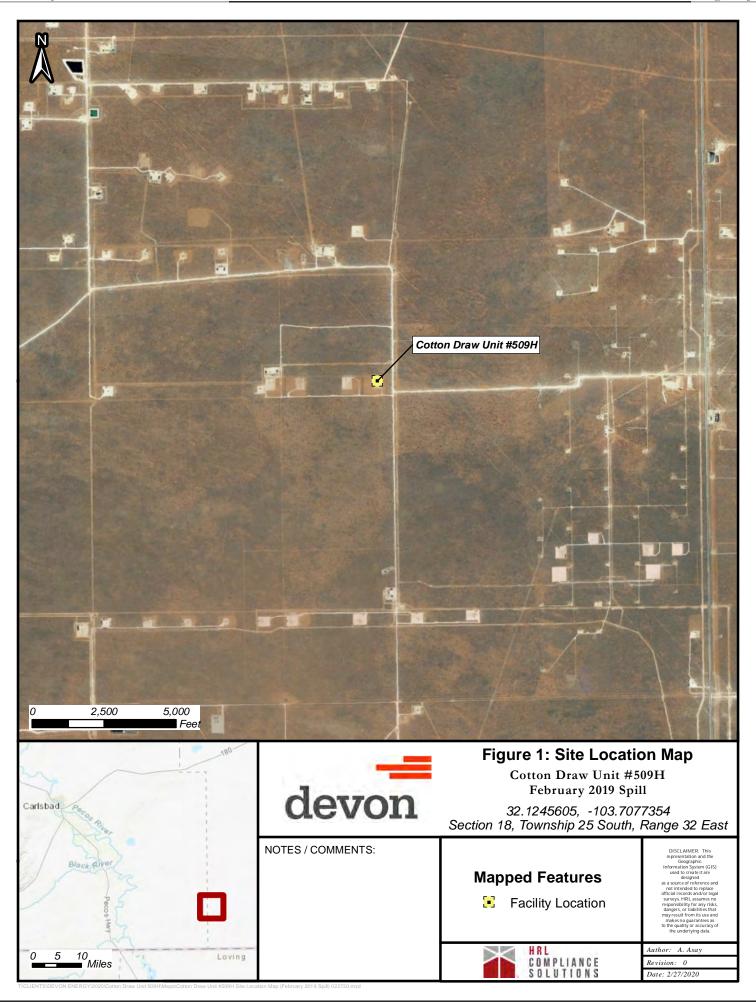
Attachment C: Devon Energy Remediation Cost Estimate

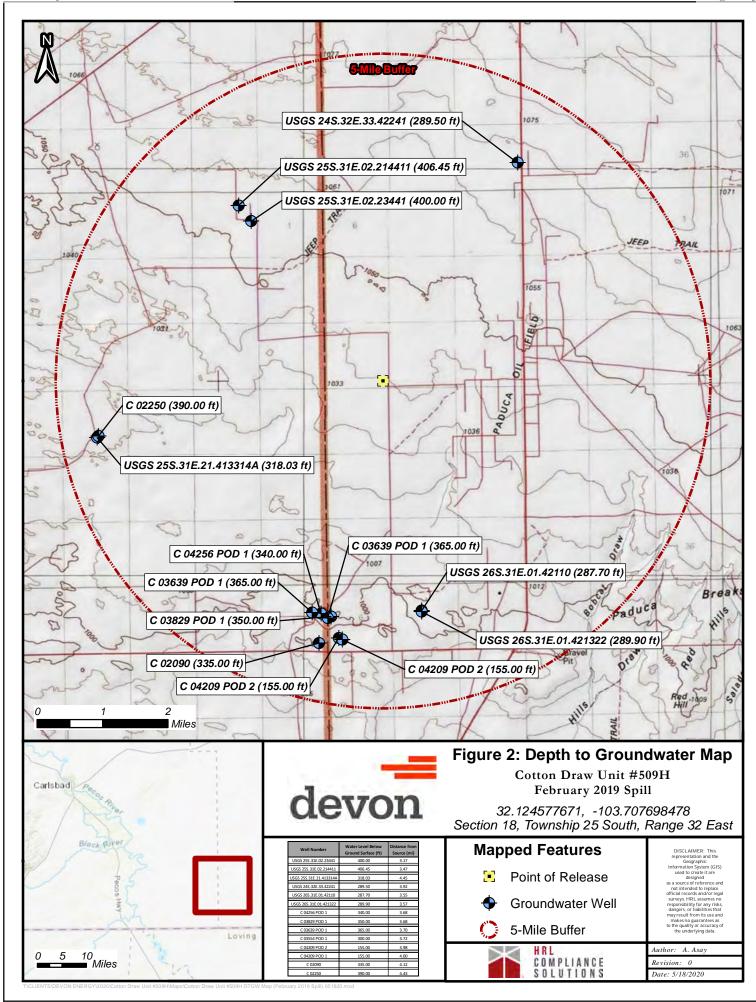
Cotton Draw Unit #509

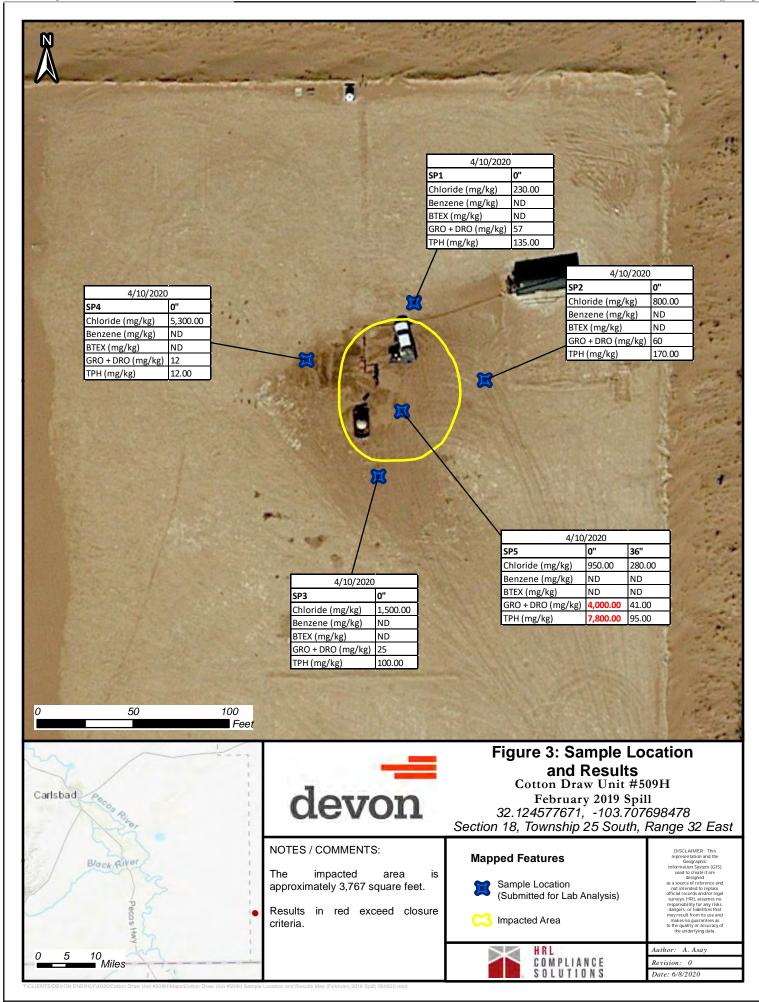
July 2, 2020



Figures









Tables



Table 1 Soil Sample Results Devon Energy Cotton Draw Unit #509H Lea County, New Mexico

Sample ID	Depth (inches)	Sample Date	Chloride	Benzene	ВТЕХ	GRO + DRO	TPH
			Val	ues are in mil	lligrams per k	ilogram (mg/l	kg)
	osure Crite ater than 1	ria (Groundwater 00 feet) *	20,000	10	50	1,000	2,500
SP1	0	4/10/2020	230	ND	ND	57	135
SP2	0	4/10/2020	800	ND	ND	60	170
SP3	0	4/10/2020	1,500	ND	ND	25	100
SP4	0	4/10/2020	5,300	ND	ND	12	12
SP5@0"	0	4/10/2020	950	ND	ND	4,000	7,800
SP5@36"	36	4/10/2020	280	ND	ND	41	95

Notes:

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, Total Xylenes

GRO: Gasoline Range Organics DRO: Diesel Range Organics

TPH: Total Petroleum Hydrocarbons **Bold** results exceed closure criteria

* Closure Criteria specified in 19.15.29.12 NMAC



Attachment A NMOCD Form C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

			OGRID			
Contact Name Co			Contact Te	stact Telephone		
Contact ema	il			Incident #	(assigned by OCD	9)
Contact mail	ing address			•		
			Location	of Release So	ource	
Latitude			(NAD 83 in de	Longitude _cimal degrees to 5 decim	nal places)	
Site Name				Site Type		
Date Release	Discovered			API# (if app	licable)	
Unit Letter	Section	Township	Range	Coun	nty	
Crude Oil		l(s) Released (Select al	ll that apply and attach	d Volume of I		e volumes provided below) overed (bbls)
Produced	Water	Volume Release	ed (bbls)		Volume Recovered (bbls)	
			tion of total dissol water >10,000 mg		Yes N	No
Condensa	ite	Volume Release	ed (bbls)		Volume Reco	overed (bbls)
Natural G	ias	Volume Release	ed (Mcf)		Volume Recovered (Mcf)	
Other (describe) Volume/Weight Released (provide units)			Volume/Wei	ght Recovered (provide units)		
Cause of Rela	ease					

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Incident ID		
District RP		
Facility ID		
Application ID		

Was this a major	If YES, for what reason(s) does the respo	nsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?		
☐ Yes ☐ No		
If YES, was immediate no	otice given to the OCD? By whom? To whom?	nom? When and by what means (phone, email, etc)?
	Initial R	esponse
The responsible p	party must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
☐ The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or	likes, absorbent pads, or other containment devices.
☐ All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
		emediation immediately after discovery of a release. If remediation
		efforts have been successfully completed or if the release occurred blease attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
regulations all operators are	required to report and/or file certain release not	fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have
failed to adequately investigated	ate and remediate contamination that pose a three	at to groundwater, surface water, human health or the environment. In
and/or regulations.	i a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws
Printed Name:		Title:
Signature: Kendra	De Hoyos	Date:
email:		Telephone:
OCD Only		
Received by:		Date:

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Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)			
Did this release impact groundwater or surface water?	☐ Yes 🄀 No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes 🄀 No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 🄀 No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes 🄀 No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes 🄀 No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes 🄀 No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🄀 No			
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes 🄀 No			
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🄀 No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes 🄀 No			
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes 🄀 No			
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes 🄀 No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
□ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. □ Field data □ Data table of soil contaminant concentration data □ Depth to water determination □ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release □ Boring or excavation logs □ Photographs including date and GIS information □ Topographic/Aerial maps □ Laboratory data including chain of custody				

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

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District RP	
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Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name:	_ Title:
Signature: Tom Bynum	Date:
email:	Telephone:
OCD Only	
Received by: Cristina Eads	Date: 07/20/2020

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Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC □ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)
<u>Deferral Requests Only</u> : Each of the following items must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: Title:
Signature: Date:
email: Telephone:
OCD Only
Received by: Cristina Eads Date: 07/20/2020
☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved
<u>Signature:</u> <u>Date:</u> 09/17/2020

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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 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially neditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
Signature:	Date:
email:	Telephone:
OCD Only	
OCD Only Received by:	Date:
Received by: Closure approval by the OCD does not relieve the responsible party	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible
Received by: Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface of the contamination of the	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.



Attachment B Analytical Laboratory Results



Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 2004618

Hall Environmental Analysis Laboratory

4901 Hawkins NE

April 21, 2020

Tom Bynum Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (575) 748-0176

FAX:

RE: Cotton Draw Unit 509H

Dear Tom Bynum:

Hall Environmental Analysis Laboratory received 6 sample(s) on 4/14/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 4/21/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: SP1

 Project:
 Cotton Draw Unit 509H
 Collection Date: 4/10/2020 10:02:00 AM

 Lab ID:
 2004618-001
 Matrix: SOIL
 Received Date: 4/14/2020 8:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: TOM
Diesel Range Organics (DRO)	57	9.4	mg/Kg	1	4/18/2020 3:09:56 PM
Motor Oil Range Organics (MRO)	78	47	mg/Kg	1	4/18/2020 3:09:56 PM
Surr: DNOP	87.7	55.1-146	%Rec	1	4/18/2020 3:09:56 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	230	61	mg/Kg	20	4/17/2020 2:31:35 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: DJF
Benzene	ND	0.024	mg/Kg	1	4/17/2020 8:56:25 AM
Toluene	ND	0.048	mg/Kg	1	4/17/2020 8:56:25 AM
Ethylbenzene	ND	0.048	mg/Kg	1	4/17/2020 8:56:25 AM
Xylenes, Total	ND	0.096	mg/Kg	1	4/17/2020 8:56:25 AM
Surr: 1,2-Dichloroethane-d4	93.6	70-130	%Rec	1	4/17/2020 8:56:25 AM
Surr: 4-Bromofluorobenzene	93.8	70-130	%Rec	1	4/17/2020 8:56:25 AM
Surr: Dibromofluoromethane	102	70-130	%Rec	1	4/17/2020 8:56:25 AM
Surr: Toluene-d8	92.2	70-130	%Rec	1	4/17/2020 8:56:25 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/17/2020 8:56:25 AM
Surr: BFB	97.5	70-130	%Rec	1	4/17/2020 8:56:25 AM

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

Qualifiers:

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

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

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Date Reported: 4/21/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: SP2

 Project:
 Cotton Draw Unit 509H
 Collection Date: 4/10/2020 11:27:00 AM

 Lab ID:
 2004618-002
 Matrix: SOIL
 Received Date: 4/14/2020 8:20:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: TOM
Diesel Range Organics (DRO)	60	9.1	mg/Kg	1	4/18/2020 3:34:52 PM
Motor Oil Range Organics (MRO)	110	45	mg/Kg	1	4/18/2020 3:34:52 PM
Surr: DNOP	80.4	55.1-146	%Rec	1	4/18/2020 3:34:52 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	800	61	mg/Kg	20	4/17/2020 2:43:56 PM
EPA METHOD 8260B: VOLATILES SHORT LIST	Г				Analyst: DJF
Benzene	ND	0.024	mg/Kg	1	4/17/2020 9:24:53 AM
Toluene	ND	0.048	mg/Kg	1	4/17/2020 9:24:53 AM
Ethylbenzene	ND	0.048	mg/Kg	1	4/17/2020 9:24:53 AM
Xylenes, Total	ND	0.095	mg/Kg	1	4/17/2020 9:24:53 AM
Surr: 1,2-Dichloroethane-d4	94.1	70-130	%Rec	1	4/17/2020 9:24:53 AM
Surr: 4-Bromofluorobenzene	91.7	70-130	%Rec	1	4/17/2020 9:24:53 AM
Surr: Dibromofluoromethane	105	70-130	%Rec	1	4/17/2020 9:24:53 AM
Surr: Toluene-d8	93.8	70-130	%Rec	1	4/17/2020 9:24:53 AM
EPA METHOD 8015D MOD: GASOLINE RANGE	:				Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/17/2020 9:24:53 AM
Surr: BFB	96.2	70-130	%Rec	1	4/17/2020 9:24:53 AM

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

Qualifiers:

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

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

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Date Reported: 4/21/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: SP3

 Project:
 Cotton Draw Unit 509H
 Collection Date: 4/10/2020 11:36:00 AM

 Lab ID:
 2004618-003
 Matrix: SOIL
 Received Date: 4/14/2020 8:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: TOM
Diesel Range Organics (DRO)	25	9.6	mg/Kg	1	4/18/2020 3:59:39 PM
Motor Oil Range Organics (MRO)	75	48	mg/Kg	1	4/18/2020 3:59:39 PM
Surr: DNOP	88.8	55.1-146	%Rec	1	4/18/2020 3:59:39 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	1500	60	mg/Kg	20	4/17/2020 2:56:17 PM
EPA METHOD 8260B: VOLATILES SHORT LI	ST				Analyst: DJF
Benzene	ND	0.024	mg/Kg	1	4/17/2020 9:53:25 AM
Toluene	ND	0.049	mg/Kg	1	4/17/2020 9:53:25 AM
Ethylbenzene	ND	0.049	mg/Kg	1	4/17/2020 9:53:25 AM
Xylenes, Total	ND	0.098	mg/Kg	1	4/17/2020 9:53:25 AM
Surr: 1,2-Dichloroethane-d4	93.5	70-130	%Rec	1	4/17/2020 9:53:25 AM
Surr: 4-Bromofluorobenzene	93.9	70-130	%Rec	1	4/17/2020 9:53:25 AM
Surr: Dibromofluoromethane	103	70-130	%Rec	1	4/17/2020 9:53:25 AM
Surr: Toluene-d8	94.7	70-130	%Rec	1	4/17/2020 9:53:25 AM
EPA METHOD 8015D MOD: GASOLINE RANG	GE .				Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/17/2020 9:53:25 AM
Surr: BFB	98.7	70-130	%Rec	1	4/17/2020 9:53:25 AM

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

Qualifiers:

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

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

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Date Reported: 4/21/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: SP4

 Project:
 Cotton Draw Unit 509H
 Collection Date: 4/10/2020 11:42:00 AM

 Lab ID:
 2004618-004
 Matrix: SOIL
 Received Date: 4/14/2020 8:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: TOM
Diesel Range Organics (DRO)	12	9.2	mg/Kg	1	4/18/2020 4:24:25 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/18/2020 4:24:25 PM
Surr: DNOP	84.5	55.1-146	%Rec	1	4/18/2020 4:24:25 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	5300	150	mg/Kg	50	4/18/2020 3:23:22 PM
EPA METHOD 8260B: VOLATILES SHORT LIST	Γ				Analyst: DJF
Benzene	ND	0.023	mg/Kg	1	4/17/2020 10:22:04 AM
Toluene	ND	0.047	mg/Kg	1	4/17/2020 10:22:04 AM
Ethylbenzene	ND	0.047	mg/Kg	1	4/17/2020 10:22:04 AM
Xylenes, Total	ND	0.094	mg/Kg	1	4/17/2020 10:22:04 AM
Surr: 1,2-Dichloroethane-d4	94.5	70-130	%Rec	1	4/17/2020 10:22:04 AM
Surr: 4-Bromofluorobenzene	90.6	70-130	%Rec	1	4/17/2020 10:22:04 AM
Surr: Dibromofluoromethane	106	70-130	%Rec	1	4/17/2020 10:22:04 AM
Surr: Toluene-d8	97.2	70-130	%Rec	1	4/17/2020 10:22:04 AM
EPA METHOD 8015D MOD: GASOLINE RANGE	i				Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/17/2020 10:22:04 AM
Surr: BFB	96.9	70-130	%Rec	1	4/17/2020 10:22:04 AM

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

Qualifiers:

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

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

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Date Reported: 4/21/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: SP5 @0"

 Project:
 Cotton Draw Unit 509H
 Collection Date: 4/10/2020 10:17:00 AM

 Lab ID:
 2004618-005
 Matrix: SOIL
 Received Date: 4/14/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst: TOM
Diesel Range Organics (DRO)	4000	100		mg/Kg	10	4/18/2020 4:49:12 PM
Motor Oil Range Organics (MRO)	3800	500		mg/Kg	10	4/18/2020 4:49:12 PM
Surr: DNOP	0	55.1-146	S	%Rec	10	4/18/2020 4:49:12 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	950	60		mg/Kg	20	4/17/2020 3:45:41 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.12		mg/Kg	5	4/17/2020 10:50:32 AM
Toluene	ND	0.23		mg/Kg	5	4/17/2020 10:50:32 AM
Ethylbenzene	ND	0.23		mg/Kg	5	4/17/2020 10:50:32 AM
Xylenes, Total	ND	0.47		mg/Kg	5	4/17/2020 10:50:32 AM
Surr: 1,2-Dichloroethane-d4	95.2	70-130		%Rec	5	4/17/2020 10:50:32 AM
Surr: 4-Bromofluorobenzene	93.5	70-130		%Rec	5	4/17/2020 10:50:32 AM
Surr: Dibromofluoromethane	104	70-130		%Rec	5	4/17/2020 10:50:32 AM
Surr: Toluene-d8	99.4	70-130		%Rec	5	4/17/2020 10:50:32 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	4/17/2020 10:50:32 AM
Surr: BFB	103	70-130		%Rec	5	4/17/2020 10:50:32 AM

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

Qualifiers:

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

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

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Date Reported: 4/21/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: SP5 @36"

 Project:
 Cotton Draw Unit 509H
 Collection Date: 4/10/2020 10:29:00 AM

 Lab ID:
 2004618-006
 Matrix: SOIL
 Received Date: 4/14/2020 8:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: TOM
Diesel Range Organics (DRO)	41	9.3	mg/Kg	1	4/19/2020 4:48:35 PM
Motor Oil Range Organics (MRO)	54	46	mg/Kg	1	4/19/2020 4:48:35 PM
Surr: DNOP	96.4	55.1-146	%Rec	1	4/19/2020 4:48:35 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	280	61	mg/Kg	20	4/17/2020 3:58:02 PM
EPA METHOD 8260B: VOLATILES SHORT LIST	-				Analyst: DJF
Benzene	ND	0.023	mg/Kg	1	4/17/2020 11:19:01 AM
Toluene	ND	0.046	mg/Kg	1	4/17/2020 11:19:01 AM
Ethylbenzene	ND	0.046	mg/Kg	1	4/17/2020 11:19:01 AM
Xylenes, Total	ND	0.092	mg/Kg	1	4/17/2020 11:19:01 AM
Surr: 1,2-Dichloroethane-d4	94.4	70-130	%Rec	1	4/17/2020 11:19:01 AM
Surr: 4-Bromofluorobenzene	93.6	70-130	%Rec	1	4/17/2020 11:19:01 AM
Surr: Dibromofluoromethane	104	70-130	%Rec	1	4/17/2020 11:19:01 AM
Surr: Toluene-d8	95.6	70-130	%Rec	1	4/17/2020 11:19:01 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	4/17/2020 11:19:01 AM
Surr: BFB	97.9	70-130	%Rec	1	4/17/2020 11:19:01 AM

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2004618**

21-Apr-20

Client: Devon Energy

Project: Cotton Draw Unit 509H

Sample ID: MB-51889 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 51889 RunNo: 68216

Prep Date: 4/17/2020 Analysis Date: 4/17/2020 SeqNo: 2358857 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-51889 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 51889 RunNo: 68216

Prep Date: 4/17/2020 Analysis Date: 4/17/2020 SeqNo: 2358858 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.2 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2004618**

21-Apr-20

Client: Devo

Devon Energy

Project: Cotton Draw Unit 509H

Sample ID: LCS-51857 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 51857 RunNo: 68198

Prep Date: 4/16/2020 Analysis Date: 4/18/2020 SeqNo: 2358974 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO) 44 10 50.00 0 88.4 70 130

 Diesel Range Organics (DRO)
 44
 10
 50.00
 0
 88.4
 70
 130

 Surr: DNOP
 4.0
 5.000
 79.7
 55.1
 146

Sample ID: MB-51857 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 51857 RunNo: 68198

Prep Date: 4/16/2020 Analysis Date: 4/18/2020 SeqNo: 2358975 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 8.8 10.00 88.1 55.1 146

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2004618**

21-Apr-20

Client: Devon Energy

Project: Cotton Draw Unit 509H

Sample ID: mb-51835	Sampl	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volatiles Short List					
Client ID: PBS	Batc	h ID: 51 8	835	F	RunNo: 6	8208						
Prep Date: 4/15/2020	Analysis Date: 4/16/2020			SeqNo: 2358447			Units: mg/k	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.025										
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.6	70	130					
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.6	70	130					
Surr: Dibromofluoromethane	0.50		0.5000		101	70	130					
Surr: Toluene-d8	0.48		0.5000		96.7	70	130					

Sample ID: Ics-51835 SampType: LCS4			TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: BatchQC	Batch ID: 51835			F	RunNo: 6	8208				
Prep Date: 4/15/2020	Analysis Date: 4/16/2020			SeqNo: 2358448			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	86.7	80	120			
Toluene	0.98	0.050	1.000	0	98.5	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		93.6	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		103	70	130			
Surr: Toluene-d8	0.48		0.5000		96.8	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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2004618

21-Apr-20

Client:

Devon Energy

Project: Cotton Draw Unit 509H

Sample ID: mb-51835

SampType: MBLK

PQL

5.0

TestCode: EPA Method 8015D Mod: Gasoline Range

PBS Client ID:

Batch ID: 51835

RunNo: 68208

Prep Date: 4/15/2020

Analysis Date: 4/16/2020

SeqNo: 2358490

Units: mg/Kg

HighLimit

%RPD

RPDLimit Qual

Qual

Gasoline Range Organics (GRO)

ND

SPK value SPK Ref Val

%REC LowLimit 101

70

130

Analyte Surr: BFB

500

500.0

TestCode: EPA Method 8015D Mod: Gasoline Range

Sample ID: Ics-51835

SampType: LCS

RunNo: 68208

LowLimit

Prep Date: 4/15/2020

Client ID: LCSS

Batch ID: 51835

Result

Analysis Date: 4/16/2020

SeqNo: 2358491 %REC

Units: mg/Kg HighLimit

Analyte Result PQL SPK value SPK Ref Val

22

500

86.8

70

%RPD

RPDLimit

Gasoline Range Organics (GRO) Surr: BFB

5.0 25.00 500.0

99.5

0

70

130 130

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

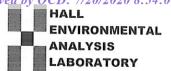
Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 10 of 10



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:	DEVON ENE	NERGY Work Order Num				4618			RcptNo: 1		
Received By:	Juan Rojas		4/14/20	20 8:20:00	AM		Hear	ang)			
Completed By:	Isaiah Ortiz		4/14/20	5 AM		Han	_ (2-6			
Reviewed By:	LB		4/141	/							
Chain of Cust	todv										
1. Is Chain of Cu		ntly complete	?		Yes	V	No		Not Present		
2. How was the s	sample deliver	ed?			Cou	<u>rier</u>					
Log In						920.0W					
3. Was an attem	pt made to coo	ol the sample	es?		Yes	✓	No		NA 🗌		
4. Were all samp	les received at	t a temperat	ure of >0° C t	o 6.0°C	Yes	V	No		NA 🗆		
5. Sample(s) in p	roper containe	er(s)?			Yes	v	No				
6. Sufficient samp	ole volume for	indicated te	st(s)?		Yes	v	No				
7. Are samples (e	xcept VOA an	d ONG) pro	perly preserve	d?	Yes	V	No				
8. Was preservati	ive added to be	ottles?			Yes		No	V	NA 🗌		
9. Received at lea	ast 1 vial with h	neadspace <	:1/4" for AQ V	OA?	Yes		No		NA 🗹	2	
10. Were any sam	ple containers	received br	oken?		Yes		No	V	# of preserved		
11. Does paperwor					Yes	V	No		bottles checked for pH:	/	
(Note discrepar			of Custody?		Yes		No	П	(<2 or Adjusted?	>12 unless noted)	
12. Are matrices correctly identified on Chain of Custody?13. Is it clear what analyses were requested?					Yes	V	No	П	/		
14. Were all holding times able to be met? (If no, notify customer for authorization.)						✓	No		Checked by:	ie alials	
Special Handli		•									
15. Was client not			ith this order?		Yes		No		NA 🗹		
Person N	Notified:	CONTRACTOR AND ADDRESS OF	TA DOLLAR WATERWAY	Date	The second desired and the second sec	espectation of		and the same of			
By Whor	n:			Via:	eM	ail 🗌	Phone	Fax	☐ In Person		
Regardin	ng:	THE RESIDENCE OF THE PARTY OF T		Mary and American		-		American			
Client Ins	structions:		A THE STATE OF THE			and the continue		-	A COURT OF SHARE MADE AND ADDRESS OF SHARE		
16. Additional rem	narks:										
17. <u>Cooler Inform</u> Cooler No	Temp °C	Condition Good	Seal Intact Not Present	Seal No	Seal D	ate	Signed I	Ву			

Received by OCD: 7/20/202	8:54:08 AM		Page 32-of 32
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request		85 87 88 87 88 80 80 80 80	Date Time Remarks: Send Report to Date Time Jinn ahrlcomp. Com Uliy 2 8:70 This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
Turn-Around Time: Standard Rush Project Name: Coffor Draw Unit #509# Project #:	E 3 1:10	462 Glass Ce -000 463 Glass Ce -000 464 Glass Ce -000 465 Glass Ce -000	
Chain-of-Custody Record Client: Devon Energy Tom Bynum Mailing Address: 6488 Seven Rivers Hay Artesia N.M. 88311 Phone #: Can-748-1612	C Package: andard andard C Package: C Package: C Package: C Package: C Package: C Package: C D C Pack	4-1020 1020 Soil SP1 4-1020 1020 Soil SP2 4-10-20 11:36 Soil SP3 4-10-20 11:36 Soil SP3 4-10-20 11:36 Soil SP3 4-10-20 11:36 Soil SP3 4-10-20 10:29 Soil SP5 20 SU	Date: Time: Relinquished by: