

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

June 1, 2020

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

Subject:

Site Characterization and Closure Report Cotton Draw Unit 171H

2RP-2907

Eddy County, New Mexico

Dear Mr. Bynum:

HRL Compliance Solutions, Inc. (HRL) is pleased to present this site characterization and closure report for the March 15, 2015 release at the Cotton Draw Unit 171H (Site). The release is at latitude 32.1526200 and longitude -103.7320907 in Eddy County, New Mexico (Figure 1). Photographs of the Site can be found in Attachment A.

Site Background

On March 15, 2015, a release of 52 barrels (bbls.) of produced water and one barrel of oil was observed at the Site. The release was due to equipment failure. The frac tanks did not equalize, resulting in an overflow of produced water and oil which impacted the pad. The fluid flowed in a southeastern direction from the point of origin on the northwest side of the well pad. Initial response activities included opening the equalizer line to stop the overflow in addition to using a vacuum truck to recover 43 barrels of produced water and one barrel of oil.

Because the volume released was greater than 25 barrels; this is considered a major release according to New Mexico Oil Conservation Division (NMOCD). On March 20, 2015, Devon reported the release to the NMOCD on a Release Notification and Corrective Action Form (Form C-141) (Attachment B). The release was assigned Remediation Permit (RP) number 2RP-2907.

Scope of Work

Devon has requested HRL to provide the following deliverables:

- Research the information as specified in the Site Characterization on the 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

Mr. Tom Bynum Page 2



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 1 mile from the Site; the depth to water in this well was 390 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?		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital institution, or church?		

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Site Characterization	Response/Discussion		
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		
Are the lateral extents of the release within 1,000 feet of any fresh water well or spring?			
Are the lateral extents of the release within any incorporated municipal boundaries?			
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 April 16, 2020, HRL mobilized to the Site to evaluate the release. Soil samples were collected from seventeen locations (FS1 through FS17). The soil samples were collected from ground surface; additionally, at one location (FS15), soil was also collected from two inches below ground surface (bgs). The soil samples were analyzed 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

Of the eighteen soil samples, five (SP1, SP2, SP3, SP4, SP5@0" and SP5@2") were immediately placed on ice and kept under strict chain of custody protocol prior to submission to Hall Environmental Analysis Laboratory, Inc. in Albuquerque, New Mexico for analysis of:

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- 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

Closure Criteria

Based on the NMAC Site Characterization Criteria, HRL has applied 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 and Reclamation

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.

Chloride concentrations in soil ranged from non-detect to 18,000 milligrams per kilogram (mg/kg). Benzene, toluene, ethylbenzene, total xylenes (BTEX), gasoline range organics (GRO), diesel range organics (DRO), and oil range organics (ORO) were not detected in the soil samples. Based on evaluation of the laboratory results of the soil samples, remediation of the impacted soil is not necessary (Attachment B).

Conclusions and Recommendations

Results of soil samples were below the applicable cleanup standards specified in 19.15.29.12 NMAC. Therefore, no additional remedial action is required; HRL recommends closure of this release.

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Scope and Limitations

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

If you have any questions or concerns, please do not hesitate to contact Julie Linn at (970) 243-3271 or via email at jlinn@hrlcomp.com.

Sincerely,

HRL Compliance Solutions, Inc.

Julie Linn, PG, RG Project Manager

julie C

Figures:

Figure 1: Site Location

Figure 2: Depth to Groundwater

Figure 3: Sample Location and Results

Tables:

Table 1: Analytical Results Summary

Attachments:

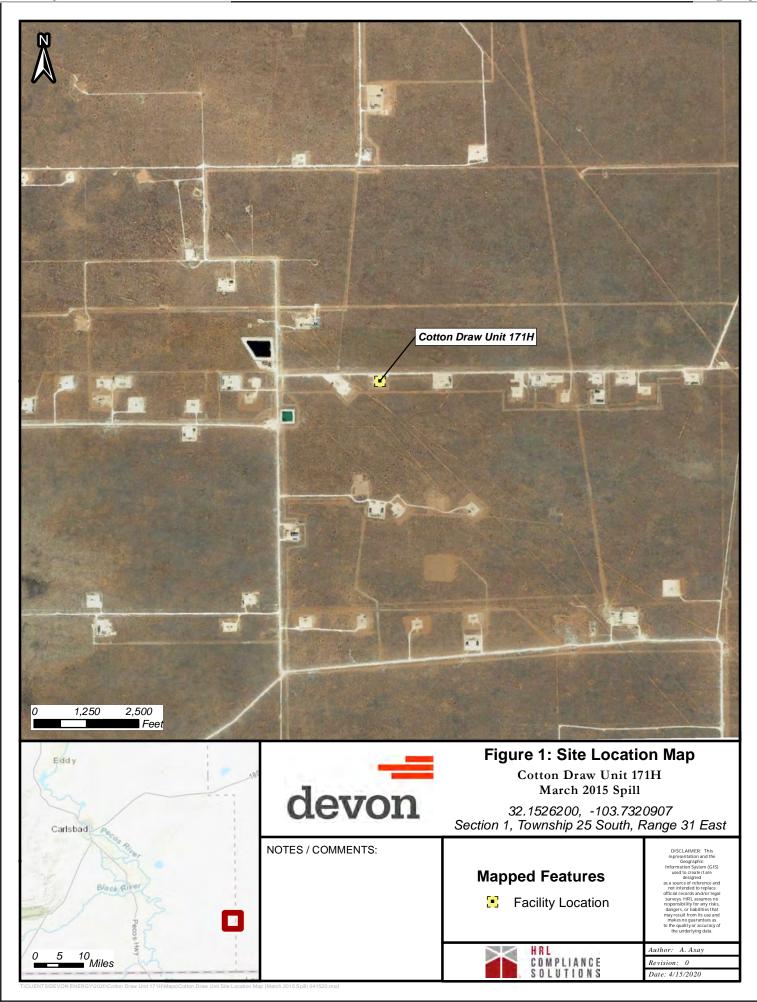
Attachment A: Photographs

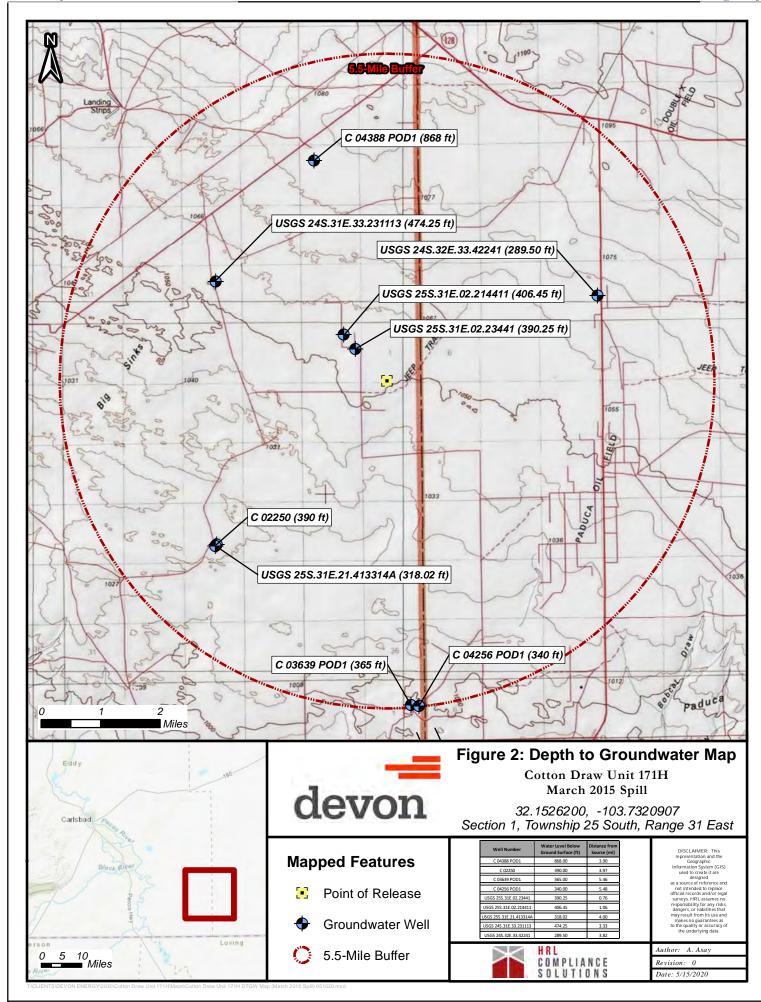
Attachment B: NMOCD Form C-141

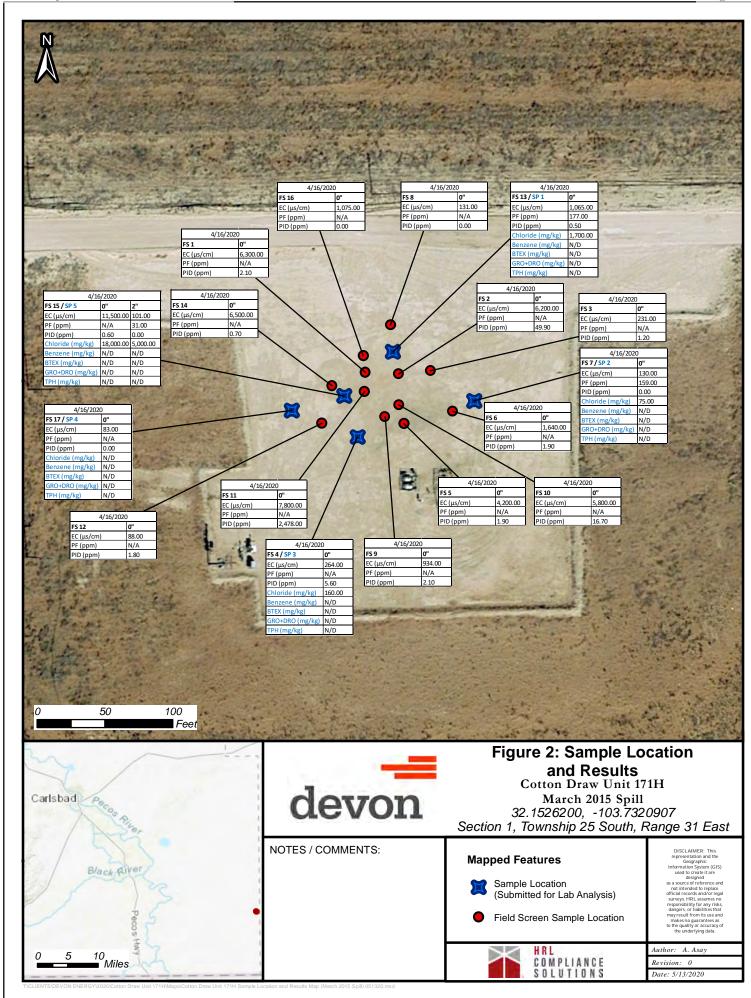
Attachment C: Laboratory Analytical Reports



Figures









Tables



Table 1 Soil Sample Results Devon Energy Cotton Draw Unit 171H Eddy County, New Mexico

Sample ID	Depth (inches)	Sample Date	Chloride	Benzene	ВТЕХ	GRO + DRO	TPH		
			Val	Values are in milligrams per kilogram (mg/kg)					
	osure Crite ater than 1	ria (Groundwater 00 feet) *	20,000	10	50	1,000	2,500		
SP1	0	4/16/2020	1,700	ND	ND	ND	ND		
SP2	0	4/16/2020	75	ND	ND	ND	ND		
SP3	0	4/16/2020	160	ND	ND	ND	ND		
SP4	0	4/16/2020	ND	ND	ND	ND	ND		
SP5 @ 0"	0	4/16/2020	18,000	ND	ND	ND	ND		
SP5 @ 2"	2	4/16/2020	5,000	ND	ND	ND	ND		

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 Photographs

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View of the Site



View of the Site





Attachment B NMOCD Form C-141

NM OIL CONSERVATION ARTESIA DISTRICT

State of New Mexico Energy Minerals and Natural Resources

MAR 2 3 2015

Form C-141 Revised August 8, 2011

Submit L Copy to appropriate District Office in RECEIVated rdance with 19.15.29 NMAC.

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

Oil Conservation Division 1220 South St. Francis Dr.

1220 S. St. Fran	1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505											
	Arrio Arrio Arrio S		Rele				rrective A	ction				and the second
nA8150825170/ OPERATOR Initial Report Final Report												
Name of Company Devon Energy Production Company [137] Contact Joah Weidemann; Production												
	Address 6488 Seven Rivers Hwy Artesia, NM 88210 Telephone No. 575-513-1528											
	Facility Name Cotton Draw Unit 171H Facility Type Oil Well											
Surface Ov	vner Feder			Mineral	Owner	Federal		-	-API No	30-015-4	2503	
<u>surface or</u>	yner i caci	<u></u>					EACE		1288 1110	30 013 1	2000	
Unit Letter	Section	Township	Range	Feet from the		N OF RE	Feet from the	East/V	West Line	County		
N	1	25S	31E	200	1	South	2480	ı	West	Eddy		
L			Latitud	e: 32.1526200	 N	Lo	ngitude: 103.73	20907	W			
				NAT	TURE	OF REL	EASE					
Type of Rele	ase Oil & P	roduced Wat	er Spill	1112			Release 52 BBL	s T	Volume	Recovered	43 BBI	_S produced
						produced	vater & 1 BBL oil		water and	l 1 BBL oil		·
Source of Re						1	Hour of Occurred 2015 6:20 AM	nce		Hour of D , 2015 6:20		r y
Was Immed		Given?				If YES, To		!	Water 19	, 2013 0.20	AIVI	
_		\boxtimes	Yes [No Not R	equired	Jeff Rober	tson; BLM & Mik	e Bratcl	her; OCD			
			tant Produ	ction Foreman			Hour both on Ma					
Was a Wate	rcourse Rea		Yes 🗵] No		If YES, V N/A	olume Impacting	the Wa	atercourse			
If a Waterco	ourse was I	mpacted, Des	cribe Ful	ly.*		<u> [</u>				*		
N/A Describe Ca	use of Prob	lem and Ren	nedial Ac	tion Taken *								
Describe Cause of Problem and Remedial Action Taken.* Failure to equalize frac tanks resulted in an overflow of a mix of 52 BBLS produced water and 1 BBL oil. Opening the equalizing line stopped the												
overflow.												
Describe Ar	Describe Area Affected and Cleanup Action Taken.*											
The released fluid; a mix of 52 BBLS produced water and 1 BBL oil covered approximately 5400 square feet on the well pad. All released fluid remained												
				ern direction fror	n the poi	nt of origin o	n the northwest si	de of the	e well pad.	A vac truc	k recov	ered 43
BBLS of pro	duced water	and 1 BBL o	of Oil.						•			
							knowledge and u					
							nd perform correct arked as "Final R					
should their	operations h	ave failed to	adequately	investigate and	remediat	e contaminat	ion that pose a thr	eat to gr	round wate	r, surface w	ater, hu	ıman health
or the environment. In addition, NMOCD 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.												
lederal, state	, or local lav	ws and/or regi	ilations.				OIL CON	CEDV	ATION	DIVISI)NI	
Signature: S	andy Fo	urley			j				F. /	,	714	
							Signed By			CARTES A	,	
Printed Name: Sandra Farley Approved by Environmental Specialist:												
Title: Field A	Admin Supj	port				Approval Da	te: 3/23/15	5	Expiration	Date: N	A	
E-mail Addr	ess: sandy.f	arley@dvn.c	om			Conditions of	f Approval:			Attache	4 🗖	
Date: 3/20/	15	Pho	ne: 575.7	46,5587			per O.C.D. Ru			1es	. ⊔	

* Attach Additional Sheets If Necessary

LATER THAN:

2RP-2907

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	nAB1508251701
District RP	2RP-2907
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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.

<u>Characterization Report Checklist</u> : 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				
— · · · · · · · · · · · · · · · · · · ·				

Received by OCD: 7/8/2020 10:16:09 AM Form C-141 State of New Mexico Page 2 Oil Conservation Division

	Page 17 of 3	33
Incident ID	nAB1508251701	
District RP	2RP-2907	
Facility ID		
Application ID		

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.

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

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: Tom Bynum Title: EHS Consultant
Signature: Date: Date:
email: tom.bynum@dvn.com Telephone: 575-748-0176
OCD Only
Received by: Date:

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Incident ID nAB1508251701
District RP 2RP-2907
Facility ID Application ID

Remediation Plan

Remediation Plan Checklist: Each of the following items must	be included in the plan.				
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 					
<u>Deferral Requests Only</u> : Each of the following items must be co	onfirmed as part of any request for deferral of remediation.				
Contamination must be in areas immediately under or around deconstruction.	production equipment where remediation could cause a major facility				
☐ Extents of contamination must be fully delineated.					
Contamination does not cause an imminent risk to human heal	lth, the environment, or groundwater.				
rules and regulations all operators are required to report and/or file	D acceptance of a C-141 report does not relieve the operator of l laws and/or regulations.				
Signature: Tom Bynum	Date: 6/1/2020				
email: tom.bynum@dvn.com	Telephone: 575-748-0176				
OCD Only					
Received by:	Date:				
Approved Approved with Attached Conditions of	of Approval				
Signature:	Date:				

Received by OCD: 7/8/2020 10:16:09 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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Incident ID	nAB1508251701
District RP	2RP-2907
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 item	ms 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 must be notified 2 days prior to liner inspection)	f the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC l	District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
	ediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ons. The responsible party acknowledges they must substantially litions that existed prior to the release or their final land use in D when reclamation and re-vegetation are complete. Title: EHS Consultant Date: 6/1/2020
OCD Only	
Received by:	Date:
	Fliability should their operations have failed to adequately investigate and ater, human health, or the environment nor does not relieve the responsible regulations.
Closure Approved by:	Date:
Printed Name:	Title:



Attachment C Laboratory Analytical Reports



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

OrderNo.: 2004847

April 24, 2020

Tom Bynum Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210

TEL: (505) 350-1336

FAX:

RE: Cotton Draw Unit 171H

Dear Tom Bynum:

Hall Environmental Analysis Laboratory received 6 sample(s) on 4/18/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2004847

Date Reported: 4/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: SP1

 Project:
 Cotton Draw Unit 171H
 Collection Date: 4/16/2020 2:18:00 PM

 Lab ID:
 2004847-001
 Matrix: SOIL
 Received Date: 4/18/2020 10:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/20/2020 6:14:08 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/20/2020 6:14:08 PM
Surr: DNOP	79.0	55.1-146	%Rec	1	4/20/2020 6:14:08 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	4/22/2020 1:06:01 PM
Surr: BFB	102	66.6-105	%Rec	1	4/22/2020 1:06:01 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	4/22/2020 1:06:01 PM
Toluene	ND	0.046	mg/Kg	1	4/22/2020 1:06:01 PM
Ethylbenzene	ND	0.046	mg/Kg	1	4/22/2020 1:06:01 PM
Xylenes, Total	ND	0.092	mg/Kg	1	4/22/2020 1:06:01 PM
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	4/22/2020 1:06:01 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	1700	60	mg/Kg	20	4/22/2020 6:39:26 PM

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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Analytical Report Lab Order 2004847

Date Reported: 4/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: SP2

Project: Cotton Draw Unit 171H
 Collection Date: 4/16/2020 12:59:00 PM

 Lab ID: 2004847-002
 Matrix: SOIL
 Received Date: 4/18/2020 10:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/20/2020 6:38:36 PM
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	4/20/2020 6:38:36 PM
Surr: DNOP	98.5	55.1-146	%Rec	1	4/20/2020 6:38:36 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	4/22/2020 1:29:24 PM
Surr: BFB	100	66.6-105	%Rec	1	4/22/2020 1:29:24 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	4/22/2020 1:29:24 PM
Toluene	ND	0.046	mg/Kg	1	4/22/2020 1:29:24 PM
Ethylbenzene	ND	0.046	mg/Kg	1	4/22/2020 1:29:24 PM
Xylenes, Total	ND	0.092	mg/Kg	1	4/22/2020 1:29:24 PM
Surr: 4-Bromofluorobenzene	99.6	80-120	%Rec	1	4/22/2020 1:29:24 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	75	60	mg/Kg	20	4/22/2020 7:16:28 PM

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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Analytical Report

Lab Order **2004847**Date Reported: **4/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: SP3

 Project:
 Cotton Draw Unit 171H
 Collection Date: 4/16/2020 12:42:00 PM

 Lab ID:
 2004847-003
 Matrix: SOIL
 Received Date: 4/18/2020 10:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: TOM
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	4/20/2020 7:02:47 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/20/2020 7:02:47 PM
Surr: DNOP	73.6	55.1-146	%Rec	1	4/20/2020 7:02:47 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/22/2020 1:52:55 PM
Surr: BFB	102	66.6-105	%Rec	1	4/22/2020 1:52:55 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	4/22/2020 1:52:55 PM
Toluene	ND	0.048	mg/Kg	1	4/22/2020 1:52:55 PM
Ethylbenzene	ND	0.048	mg/Kg	1	4/22/2020 1:52:55 PM
Xylenes, Total	ND	0.097	mg/Kg	1	4/22/2020 1:52:55 PM
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	4/22/2020 1:52:55 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	160	60	mg/Kg	20	4/22/2020 7:28:50 PM

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

Qualifiers:

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

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

Page 3 of 10

Analytical Report

Lab Order **2004847**Date Reported: **4/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: SP4

 Project:
 Cotton Draw Unit 171H
 Collection Date: 4/16/2020 2:51:00 PM

 Lab ID:
 2004847-004
 Matrix: SOIL
 Received Date: 4/18/2020 10:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	4/20/2020 7:27:18 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/20/2020 7:27:18 PM
Surr: DNOP	61.8	55.1-146	%Rec	1	4/20/2020 7:27:18 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/22/2020 2:16:25 PM
Surr: BFB	101	66.6-105	%Rec	1	4/22/2020 2:16:25 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	4/22/2020 2:16:25 PM
Toluene	ND	0.047	mg/Kg	1	4/22/2020 2:16:25 PM
Ethylbenzene	ND	0.047	mg/Kg	1	4/22/2020 2:16:25 PM
Xylenes, Total	ND	0.095	mg/Kg	1	4/22/2020 2:16:25 PM
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	4/22/2020 2:16:25 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	4/22/2020 7:41:11 PM

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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Analytical Report Lab Order 2004847

Date Reported: 4/24/2020

Hall Environmental Analysis Laboratory, Inc.

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

 Project:
 Cotton Draw Unit 171H
 Collection Date: 4/16/2020 2:22:00 PM

 Lab ID:
 2004847-005
 Matrix: SOIL
 Received Date: 4/18/2020 10:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/20/2020 7:51:27 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/20/2020 7:51:27 PM
Surr: DNOP	62.3	55.1-146	%Rec	1	4/20/2020 7:51:27 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/22/2020 2:40:03 PM
Surr: BFB	101	66.6-105	%Rec	1	4/22/2020 2:40:03 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	4/22/2020 2:40:03 PM
Toluene	ND	0.047	mg/Kg	1	4/22/2020 2:40:03 PM
Ethylbenzene	ND	0.047	mg/Kg	1	4/22/2020 2:40:03 PM
Xylenes, Total	ND	0.095	mg/Kg	1	4/22/2020 2:40:03 PM
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	4/22/2020 2:40:03 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	18000	600	mg/Kg	200	4/23/2020 10:36:34 PM

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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Analytical Report Lab Order 2004847

Date Reported: 4/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: SP5 @ 2"

 Project:
 Cotton Draw Unit 171H
 Collection Date: 4/16/2020 3:40:00 PM

 Lab ID:
 2004847-006
 Matrix: SOIL
 Received Date: 4/18/2020 10:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/20/2020 8:15:50 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/20/2020 8:15:50 PM
Surr: DNOP	55.8	55.1-146	%Rec	1	4/20/2020 8:15:50 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	4/22/2020 3:03:23 PM
Surr: BFB	101	66.6-105	%Rec	1	4/22/2020 3:03:23 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	4/22/2020 3:03:23 PM
Toluene	ND	0.046	mg/Kg	1	4/22/2020 3:03:23 PM
Ethylbenzene	ND	0.046	mg/Kg	1	4/22/2020 3:03:23 PM
Xylenes, Total	ND	0.092	mg/Kg	1	4/22/2020 3:03:23 PM
Surr: 4-Bromofluorobenzene	99.8	80-120	%Rec	1	4/22/2020 3:03:23 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	5000	300	mg/Kg	100	4/23/2020 11:13:48 PM

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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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

24-Apr-20

2004847

WO#:

Client:

Devon Energy

Project:

Cotton Draw Unit 171H

Sample ID: MB-52033

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 52033

RunNo: 68324

4/22/2020

SeqNo: 2364906 Units: mg/Kg

Prep Date: Analyte

Analysis Date: 4/22/2020

LowLimit

90

TestCode: EPA Method 300.0: Anions

RPDLimit Qual

Chloride

PQL ND

14

Result

ND

1.5

Sample ID: LCS-52033

SampType: Ics

TestCode: EPA Method 300.0: Anions

%REC

Client ID: LCSS

Batch ID: 52033

RunNo: 68324

0

SPK value SPK Ref Val %REC LowLimit

Prep Date: 4/22/2020 Analysis Date: 4/22/2020

SeqNo: 2364907

Units: mg/Kg

HighLimit

Qual

Analyte Chloride

Result **PQL**

SPK value SPK Ref Val

15.00

SPK value SPK Ref Val

%REC LowLimit 93.2

HighLimit

%RPD **RPDLimit**

%RPD

Qual

Sample ID: MB-52033

Prep Date: 4/22/2020

Client ID: PBS

SampType: mblk Batch ID: 52033 Analysis Date: 4/23/2020

1.5

RunNo: 68356 SeqNo: 2365666

Units: mg/Kg

HighLimit

%RPD

RPDLimit

Analyte Chloride

Sample ID: LCS-52033

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS Prep Date: 4/22/2020

Batch ID: 52033 Analysis Date: 4/23/2020

PQL

1.5

RunNo: 68356 SeqNo: 2365667

Units: mg/Kg

Analyte Chloride

SPK value SPK Ref Val

%REC 95.1

LowLimit HighLimit %RPD

RPDLimit Qual

Result

14

15.00

110

Qualifiers:

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

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

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2004847 24-Apr-20**

Client:

Devon Energy

Project: Cotton Draw Unit 171H

Sample ID: LCS-51944 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 51944 RunNo: 68265

Prep Date: 4/19/2020 Analysis Date: 4/20/2020 SeqNo: 2361901 Units: mq/Kq

Analyte SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 57 10 50.00 113 130 Surr: DNOP 6.2 5.000 124 55.1 146

Sample ID: LCS-51945 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 51945 RunNo: 68265

Prep Date: 4/19/2020 Analysis Date: 4/20/2020 SeqNo: 2361902 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: DNOP 5.000 3.7 73.6 55.1 146

Sample ID: MB-51944 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 51944 RunNo: 68265

Prep Date: 4/19/2020 Analysis Date: 4/20/2020 SeqNo: 2361903 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 10.00 115 55.1 146

Sample ID: MB-51945 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **PBS** Batch ID: **51945** RunNo: **68265**

Prep Date: 4/19/2020 Analysis Date: 4/20/2020 SeqNo: 2361904 Units: %Rec

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

Surr: DNOP 7.4 10.00 74.4 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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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2004847 24-Apr-20

Client:

Devon Energy

Project: Cotton Draw Unit 171H

Sample ID: mb-51937

SampType: MBLK

Analysis Date: 4/22/2020

PQL

5.0

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS

Prep Date:

Batch ID: 51937

RunNo: 68306

SeqNo: 2363135

Units: mg/Kg

Qual

Analyte Gasoline Range Organics (GRO)

ND

SPK value SPK Ref Val

%REC

LowLimit

HighLimit

%RPD

%RPD

RPDLimit

Qual

S

1000

1000

101

66.6

105

RPDLimit

Surr: BFB

Sample ID: Ics-51937

4/19/2020

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS

Batch ID: 51937

RunNo: 68306

Prep Date:

4/19/2020

Analysis Date: 4/22/2020

SeqNo: 2363136

Units: mg/Kg

120

105

SPK value SPK Ref Val %REC Result PQL LowLimit HighLimit 80 Gasoline Range Organics (GRO) 21 5.0 25.00 84.6 Surr: BFB 1100 1000 112 66.6

Qualifiers:

Value exceeds Maximum Contaminant Level.

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

Not Detected at the Reporting Limit PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit

Page 9 of 10

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2004847**

24-Apr-20

Client: Devon Energy

Project: Cotton Draw Unit 171H

Sample ID: mb-51937 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 51937 RunNo: 68306 Prep Date: 4/19/2020 Analysis Date: 4/22/2020 SeqNo: 2363182 Units: mg/Kg Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual ND 0.025 Benzene ND 0.050

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

 Surr: 4-Bromofluorobenzene
 1.0
 1.000
 100
 80
 120

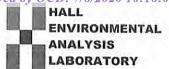
Sample ID: LCS-51937	Samp	Гуре: LC	s	Tes	tCode: El	PA Method	8021B: Volatiles					
Client ID: LCSS	Batc	h ID: 51 9	937	F	RunNo: 6	8306						
Prep Date: 4/19/2020	Analysis [Date: 4/	22/2020	S	SeqNo: 2	363183	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.89	0.025	1.000	0	89.0	80	120					
Toluene	0.92	0.050	1.000	0	91.8	80	120					
Ethylbenzene	0.94	0.050	1.000	0	94.0	80	120					
Xylenes, Total	2.8	0.10	3.000	0	94.3	80	120					
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120					

Qualifiers:

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

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

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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:	DEVON ENERGY	Work Order Number: 2004847				RcptNo: 1					
Received By:	Isaiah Ortiz	4/18/2020 10:20:00	4/18/2020 10:20:00 AM			0	4				
Completed By:	Isaiah Ortiz	4/18/2020 11:46:18	3 AM		I	InOx InOx					
Reviewed By:	dam 4/18/2	670									
Chain of Cus	<u>tody</u>										
1. Is Chain of C	ustody sufficiently comple	re?	Yes	V	No		Not Present				
2. How was the	sample delivered?		Cou	rier							
Log In											
	npt made to cool the samp	les?	Yes	V	No		NA 🗆				
4. Were all samp	ples received at a tempera	ture of >0° C to 6.0°C	Yes	✓	No		NA 🗆				
5. Sample(s) in	proper container(s)?		Yes	V	No						
6. Sufficient sam	nple volume for indicated to	est(s)?	Yes	V	No						
7. Are samples (except VOA and ONG) properly preserved?			Yes	~	No						
8. Was preserva	tive added to bottles?		Yes		No	V	NA 🗆				
9. Received at le	east 1 vial with headspace	<1/4" for AQ VOA?	Yes		No		NA 🗹	τ			
10. Were any sar	mple containers received b	roken?	Yes		No	~	# of preserved	1,0100			
	ork match bottle labels? ancies on chain of custody)	Yes	~	No		bottles checked for pH:	4/(8) 20 +12 unless noted)			
	correctly identified on Chai		Yes	~	No		Adjusted?				
13. Is it clear wha	t analyses were requested	?	Yes	V	No						
	ng times able to be met? ustomer for authorization.)		Yes	~	No		Checked by:	-			
	ing (if applicable)										
	etified of all discrepancies	vith this order?	Yes		No		NA 🗸				
Person	Notified:	Date				_					
By Who	om:	Via:	eM.	ail 🔲	Phone	Fax	☐ In Person				
Regard	ing:										
Client In	nstructions:										
16. Additional re	marks:										
17. <u>Cooler Infor</u> Cooler No		Seal Intact Seal No Not Present	Seal D	ate	Signed I	Зу					

- Received by OCD: 7/8/2020 10:16:09 AM Page 33 of 33 Page 1 of **ANALYSIS LABORATORY** HALL ENVIRONMENTAL 0 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. 4901 Hawkins NE - Albuquerque, NM 87109 Report Fax 505-345-4107 tdind I ahrland con www.hallenvironmental.com Himphricomp.com **Analysis Request** Total Coliform (Present/Absent) (AOV-imaS) 07S8 Remarks: Please & Serval (AOV) 03S8 NO2, PO4, SO4 NO31 CI E' Br, Tel. 505-345-3975 RCRA 8 Metals SMI20728 10 0188 vd eHA9 EDB (Method 504.1) 8081 Pesticides/8082 PCB's (ORM) ORO) DRO / MRO) BTEX MTBE / TMB's (8021) 95) 34 (°C) TOO 48 CC7 200 4 Time email or Fax#:10m. bynym@dWn. com Project Manager: Tim Bynwm May 4/18/20 letton Daw Cooler Temp(including cr); 3,9-0 CE Date 200 □ Rush Preservative 75415800 四月 ⊠ Yes Type Turn-Around Time: 3 8 Via: Project Name: / K Standard 402 Glass 1/4 GLX 407 Glass 407 Glass 4nt Glass # of Coolers: 40zg bes Type and # Unit Container Received by: Received by: Project #: Sampler: On Ice: ☐ Level 4 (Full Validation) Chain-of-Custody Record -7 Mailing Address 10488 TR Werstown Sample Name Artesia NM 8821 SPS Phone #: 580' - 748 - 1613 282 SP 3 □ Az Compliance 7 ds Ton Bynum Ja Client: Devon Energy Relinquished by □ Other Matrix Sal 10/2/8/12/8/18/01 B 4/6/bs 12:42 Soi 16/20 14:51 Sai 1/12/1/1922 SAIN 12.40 110/0 15-40 QA/QC Package: 000 Time ☐ EDD (Type) 1/20/20/4/8 Accreditation: ime: Time: Standard □ NELAC 4/4/1 Date Date: Date: