

March 19, 2025 Vertex Project #: 25A-00763

Spill Closure Report: Mesa Verde 6 Federal #005

Unit G, Section 6, Township 24 South, Range 32 East

API: 30-025-32504

County: Lea

Incident Report: nGRL0927342490, 1RP-2288

Prepared For: Devon Energy Production Company

6488 Seven Rivers Highway Artesia, New Mexico 88210

New Mexico Oil Conservation Division

508 West Texas Ave. Artesia, New Mexico

Devon Energy Production Company (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct a Spill Assessment and Remediation for a release of produced water and crude oil due to a leak in an underground flowline near the wellhead at Mesa Verde 6 Federal #005, API 30-025-32504, Incident nGRL0927342490, 1RP-2288 (hereafter referred to as "Mesa Verde"). This letter provides a description of the Spill Assessment and Remediation and includes a request for Spill Closure. The spill area is located at N 32.2482376, W -103.7116165.

Background

The site is located approximately 21.2 miles west of Malaga, New Mexico (Google Inc., 2022). The legal location for site is Unit G, Section 6, Township 24 South and Range 32 East in Lea County, New Mexico. The spill area is located on Bureau of Land Management property. An aerial photograph and site schematic are included in Figure 1 - Attachment 1.

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2022) indicates the site's surface geology is comprised primarily of Qep — eolian and piedmont deposits that include eolian sands interlaid with piedmont-slope deposits (New Mexico Bureau of Geology and Mineral Resources, 2022). The Natural Resources Conservation Service Web Soil Survey characterizes the predominant soil texture on the site is Maljamar and Palomas fine sands. It tends to be well drained with very low runoff and low available moisture levels in the soil profile (United States Department of Agriculture, Natural Resources Conservation Service, 2022).

The surrounding landscape is associated with plains at elevations of 3,000 to 3,900 feet above sea level. The climate is semi-arid, with an annual precipitation ranging between 10 to 15 inches. Historically, the plant community has grassland aspect, dominated by black grama, dropseeds, and bluestems with scattered shinnery oak and sand sage. Perennial and annual forb abundance and distribution are dependent on precipitation. Overgrazing and extended drought can reduce grass cover (United States Department of Agriculture, Natural Resources Conservation Service, 2022).

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There is no surface water located on-site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 Mexico Administrative Code (NMAC; New Mexico Oil Conservation Division, 2018), is an intermittent stream located approximately 5.71 miles west of the site (United States Fish and Wildlife Service, 2024). There are no continuous flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes, or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

Incident Description

The spill occurred on August 27, 2009, due to a leak in a buried flowline near the wellhead. The spill was reported on August 28, 2009, and involved the release of approximately 4 barrels (bbl.) of produced water and 1 bbl. produced oil on the engineered pad site. Approximately 0 bbl. of free fluid was removed during initial spill clean-up. Field screening and laboratory analysis results from the initial site inspection are included in Table 3 (Attachment 2). The New Mexico Oil Conservation Division (NMOCD) C-141 Report: nGRL0927342490, 1RP-2288 is included in Attachment 3. The daily field report (DFR) and site photographs are included in Attachment 4.

Closure Criteria Determination

The closest depth to groundwater reference is from a dry exploratory borehole drilled to 105 feet bgs approximately 0.57 miles from the site. (New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System, 2024). The depth to groundwater reference exceeded 0.5 miles from the release area, therefore the closure criteria for remediation of the site was determined to be associated with the strictest constituent concentration limits.

The release at Mesa Verde would be subject to the requirements of Paragraph (4) of Subsection C of 19.15.29.12 of NMAC and the closure criteria for the site would be determined to be associated with the following constituent concentration limits based on depth to groundwater. The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 2. Documentation used in Closure Criteria Determination research is included in Attachment 5.

2009 Spill Assessment and Remediation March 2025

	Closure Criteria Determination		
	e: Mesa Verde 6 Federal #005 dinates: 32.2482376,-103.7116165	X: 621370	Y: 3568680
	ific Conditions	Value	Unit
orce Spec	Depth to Groundwater (nearest reference)	>105	feet
		3,020	feet
1	Distance between release and nearest DTGW reference	0.57	miles
	Date of nearest DTGW reference measurement		per 14, 2023
	Within 300 feet of any continuously flowing watercourse	2000	1,2020
2	or any other significant watercourse	30,182	feet
	Within 200 feet of any lakebed, sinkhole or playa lake		
3	(measured from the ordinary high-water mark)	35,747	feet
	Within 300 feet from an occupied residence, school,		
4	hospital, institution or church	17,390	feet
	i) Within 500 feet of a spring or a private, domestic fresh		
	water well used by less than five households for	4,873	feet
5	domestic or stock watering purposes, or	.,5.75	
-			
	ii) Within 1000 feet of any fresh water well or spring	4,873	feet
	Within incorporated municipal boundaries or within a		
	defined municipal fresh water field covered under a		
6	municipal ordinance adopted pursuant to Section 3-27-3	No	(Y/N)
	NMSA 1978 as amended, unless the municipality		
	specifically approves		
7	Within 300 feet of a wetland	3,009	feet
	Within the area overlying a subsurface mine	No	(Y/N)
8	Distance between release and nearest registered mine	65,532	feet
			Critical
			High
	Within an unstable area (Karst Map)	Low	Medium
9			Low
	Distance between release and nearest	10 ===	
	Medium/High\Critical Karst	40,778	feet
	Within a 100-year Floodplain	Undetermined	year
10	Distance between release and nearest FEMA Zone A (100-		
	year Floodplain)	37,151	feet
11	Soil Type	Fine sand, s	andy clay loam
12	Ecological Classification	Loar	my Sand
13	Geology	Eolian and pi	edmont deposits
_			
			<50'
vorter	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	51-100'
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Table 2. Closure Criteria for Soils Impacted by	a Release	
Minimum depth below any point within the horizontal boundary of the release to groundwater less than		
10,000 mg/l TDS	Constituent	Limit
	Chloride	600 mg/kg
< 50 feet	TPH (GRO+DRO+MRO)	100 mg/kg
< 50 feet	BTEX	50 mg/kg
	Benzene	10 mg/kg

TDS - Total dissolved solids, TPH - Total petroleum hydrocarbons = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO), BTEX - Benzene, toluene, ethylbenzene, and xylenes

Remedial Actions Taken

Initial site inspection and site characterization activities at Mesa Verde were completed by Vertex on February 9, 2022, including horizontal and vertical delineation. The impacted area was determined to be approximately 128 feet long and 73 feet wide; the total affected area was estimated to be 6,872 square feet as presented in Figure 1 (Attachment 1). The DFR associated with the site inspection is included in Attachment 4.

Remediation efforts began on October 19, 2022, and were completed on October 26, 2022. Vertex personnel supervised the excavation of impacted soils. Field screening was completed on multiple sample points and consisted of analysis using a photo ionization detector (volatile hydrocarbons), Dexsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and electroconductivity meter (chloride). Field screening results were used to identify areas requiring further remediation from those areas showing concentrations below determined closure criteria levels. Soils were removed to depths ranging from 1 to 3 feet bgs. The aerial photograph and excavation schematic is included on Figure 2 (Attachment 1). The total base surface area of the final excavation was 4,751 square feet and the final total excavation wall surface area was 1,058 square feet. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. Approximately 326 cubic yards of material were removed from the excavation. Field screening results are included in Table 4 (Attachment 2).

Notifications that confirmatory samples were being collected was provided to the NMOCD on October 21 and 25, 2022, and are included in Attachment 6. Confirmatory composite samples were collected from the base and walls of the excavation in 200 square foot increments. A total of 42 samples were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Hall Environmental Analysis Laboratory under chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA Method 300.0). Laboratory results are presented in Table 4 (Attachment 2) and the laboratory data report is included in Attachment 7. All confirmatory samples collected and analyzed were below closure criteria for the site.

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Closure Request

Vertex recommends no additional remediation action to address the releases at Mesa Verde 6 Federal #005. Laboratory analyses of the final confirmatory samples showed constituent of concern concentration levels below NMOCD closure criteria for areas where depth to groundwater less than 50 feet bgs as shown in Table 2. There are no anticipated risks to human, ecological or hydrological receptors associated with the release sites.

The excavation was backfilled with non-waste-containing, uncontaminated, earthen material, sourced locally, and placed to meet the site's existing grade to prevent ponding of water and erosion.

Vertex requests that this incident (nGRL0927342490, 1RP-2288) be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. Devon certifies that all information in this report and the attachments is correct, and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain closure on the August 27, 2009 release at Mesa Verde 6 Federal #005.

The release area was fully delineated, remediated, and backfilled with local soil. Confirmatory samples were analyzed by the laboratory and found to be below allowable concentrations as per the NMAC Closure Criteria for Soils Impacted by a Release locations less than 50 feet to groundwater. Based on these findings, Devon requests that this release be closed.

Should you have any questions or concerns, please do not hesitate to contact Kent Stallings at 346.814.1413 or kstallings@vertexresource.com.

Lakin Pullman	March 22, 2025	
Lakin Pullman, B.Sc.	Date	
ENVIRONMENTAL SPECIALIST, REPORTING		
Kent Stallings P.G.	March 24, 2025	
Kent Stallings P.G.	Date	
PROJECT MANAGER, REPORT REVIEW		

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Attachments

Attachment 1. Figures Attachment 2. Tables

Attachment 3. NMOCD C-141 Report

Attachment 4. Daily Field Reports with Pictures

Attachment 5. Closure Criteria for Soils Impacted by a Release Research Determination Documentation

Attachment 6. Confirmatory Sample Notification

Attachment 7. Laboratory Data Reports and Chain of Custody Forms

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References

- Google Inc. (2022). *Google Earth Pro* (Version 7.3.4) [Software]. Retrieved from http://www.google.com/earth on November 8, 2022.
- New Mexico Bureau of Geology and Mineral Resources. (2022). *Interactive Geologic Map*. Retrieved from http://geoinfo.nmt.edu.
- New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System. (2024). Water Column/Average Depth to Water Report. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html
- New Mexico Oil Conservation Division. (2018). New Mexico Administrative Code Natural Resources and Wildlife Oil and Gas Releases. Santa Fe, New Mexico.
- United States Department of Agriculture, Natural Resources Conservation Service. (2022). *Web Soil Survey*. Retrieved from https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx.
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- United States Fish and Wildlife Service. (2024). *National Wetlands Inventory Surface Waters and Wetland*. Retrieved from https://www.fws.gov/ wetlands/data/Mapper.html.

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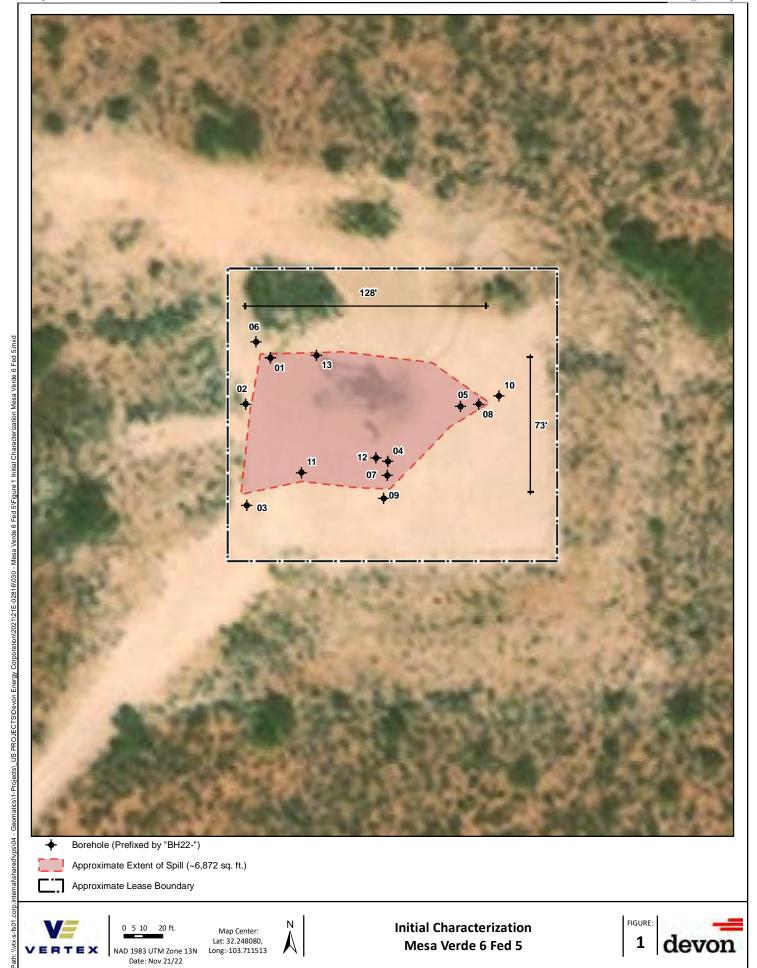
2009 Spill Assessment and Remediation March 2025

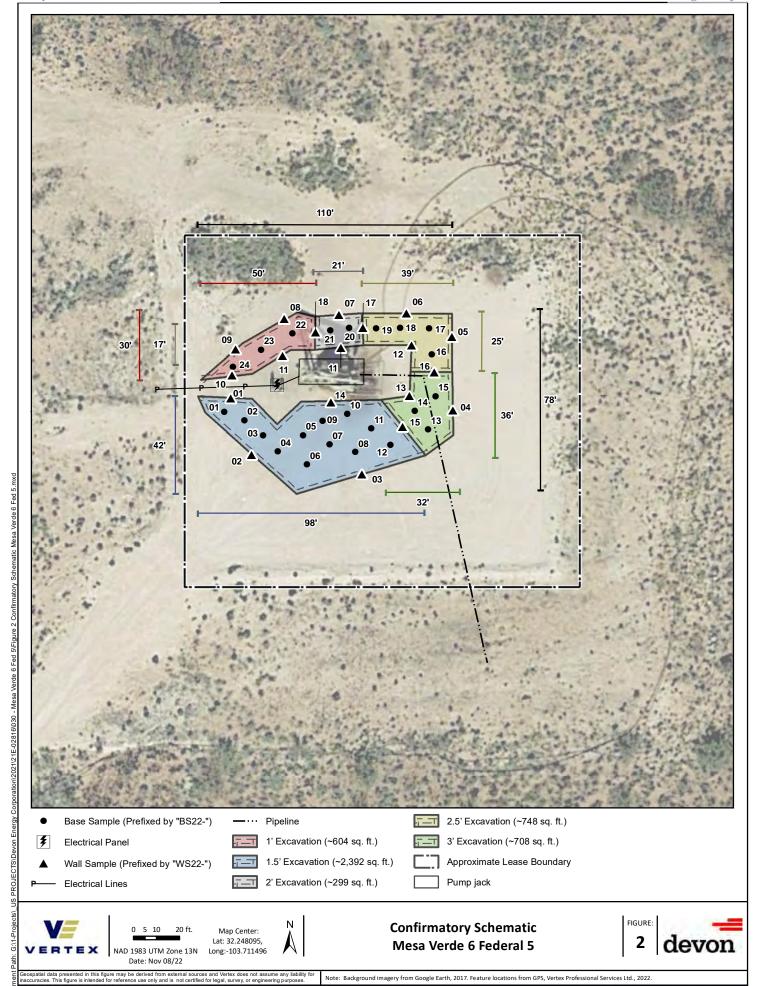
Limitations

This report has been prepared for the sole benefit of Devon Energy Production Company. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division and Bureau of Land Management, without the express written consent of Vertex Resource Services Inc. (Vertex) and Devon Energy Production Company. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

ATTACHMENT 1





ATTACHMENT 2

Client Name: Devon Energy Production Company, LP

Site Name: Mesa Verde 6 Federal #005

NMOCD Tracking #: nGRL0927342490, 1RP-2288

Project #: 24E-04980-04 Lab Report: 2202641

		ole 3. Initial Characteria		•		d Laborato	ry Results				feet bgs		
	Sample Des	cription	Fi	eld Screeni	ng			Petrole	um Hydro	carbons			
			ş			Vol	atile			Extractable	•		Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
DUI22 04	0.5	5 1 0 2022	(ppm) 0	(ppm)	(ppm) 883	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH22-01	0.5	February 9, 2022		-		-	- ND	- ND	- ND	- ND	- ND	- ND	-
BH22-02	0.5	February 9, 2022	0	78	314	ND	ND	ND	ND	ND	ND	ND	420
BH22-03	0.5	February 9, 2022	0	65	111	ND	ND	ND	ND	ND	ND	ND	130
BH22-04	0.5	February 9, 2022	0	-	1,124	-	-	-	-	-	-	-	-
BH22-05	0.5	February 9, 2022	0	-	751	-	- ND	- ND	-	- ND	- 10	-	-
BH22-06	0.5	February 9, 2022	0	82	83	ND	ND	ND	10	ND	10	10	69
BH22-07 BH22-08	0.5 0.5	February 9, 2022 February 9, 2022	0	-	1,040 2,019	-	-	-	-	-	-	-	-
BH22-08	0.5	February 9, 2022	0	- 57	190	ND.	ND	ND	ND	ND	ND	ND	170
BH22-10	0.5	February 9, 2022	0	86	334	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	320
DUSZ-10	0.5	February 9, 2022											
BH22-11	1	February 9, 2022 February 9, 2022	0	591 21	3,546 471	ND ND	ND ND	ND ND	210 ND	170 ND	210 ND	380 ND	4,900 520
	0.5	February 9, 2022											
BH22-12	1	February 9, 2022	0	161 20	1,957 184	ND ND	ND ND	ND ND	32 ND	ND ND	32 ND	32 ND	1,100 200
	0.5	February 9, 2022	0	294	4,495	ND	ND	ND	200	190	200	390	5200
BH22-13	1	February 9, 2022	0	294	620	ND	ND	ND	ND	ND	ND	ND	5200

[&]quot;ND" Not Detected at the Reporting Limit

Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria



[&]quot;-" indicates not analyzed/assessed

Client Name: Devon Energy Production Company, LP

Site Name: Mesa Verde 6 Federal #005

NMOCD Tracking #: nGRL0927342490, 1RP-2288

Project #: 24E-04980-04 Lab Report: 2210E19

		Table 4. Confirmator	y Sample I	Field Scree	n and Lab	oratory R	esults - De	pth to Gro	undwate	r <50 feet	bgs		
	Sample Desc	cription	Fi	eld Screeni	ng			Petrole	um Hydro				
			sp			Vol	atile			Extractable	9		Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds	Extractable Organic Gompounds (PetroFlag)	Chloride Concentration	Benzene (mg/kg)	BTEX (Total)	ন্ত্ৰ Gasoline Range Organics স্ব (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(mg/kg)	五 五 五 五 Hydrocarbons (TPH)	(%) Chloride Concentration
BS22-01	1.5	October 26, 2022	(PP.III)	16	ND ND	ND	ND	ND	ND	ND	ND	ND	ND
BS22-02	1.5	October 26, 2022	_	24	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS22-03	1.5	October 26, 2022		122	170	ND	ND	ND	28	ND ND	28	28	160
BS22-04	1.5	October 26, 2022	_	117	285	ND	ND	ND	20	ND	20	20	240
BS22-04	1.5	October 26, 2022		20	5	ND	ND	ND	ND	ND ND	ND	ND	ND
BS22-06	1.5	October 26, 2022		31	313	ND	ND	ND	ND	ND ND	ND ND	ND	250
BS22-07	1.5	October 26, 2022		24	187	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	100
BS22-07 BS22-08	1.5	October 26, 2022		27	261	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	160
BS22-09	1.5	October 26, 2022		25	238	ND	ND	ND	ND	ND	ND	ND	120
BS22-10	1.5	October 26, 2022		18	ND	ND	ND	ND ND	ND	ND ND	ND ND	ND	ND
BS22-11	1.5	October 26, 2022		17	ND	ND	ND	ND	ND	ND ND	ND ND	ND	ND ND
BS22-11	1.5	October 26, 2022	-	14	526	ND	ND	ND	ND	ND ND	ND ND	ND	360
BS22-12	3	October 26, 2022											ND
BS22-14	3	•		28	ND	ND	ND	ND ND	ND	ND	ND	ND	
BS22-14 BS22-15	3	October 26, 2022 October 26, 2022		30 25	ND 63	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
BS22-15	2.5	October 26, 2022		16	18	ND	ND	ND	ND	ND	ND ND	ND	ND
BS22-10	2.5	October 26, 2022	-			ND ND				ND ND		ND	
BS22-17 BS22-18	2.5	October 26, 2022	-	20	ND 340		ND	ND	ND		ND		ND 1F0
BS22-18	2.5	October 26, 2022	-	12 25	249 ND	ND	ND ND	ND ND	ND ND	ND	ND ND	ND	150 ND
BS22-19	2.5	October 26, 2022	-		4	ND				ND		ND	
BS22-20	2	· · · · · · · · · · · · · · · · · · ·		22		ND	ND	ND ND	ND	ND	ND	ND	ND 200
BS22-21	1	October 26, 2022 October 26, 2022	-	13 26	350 158	ND	ND ND	ND	ND ND	ND	ND ND	ND	260 120
BS22-22	1	October 26, 2022	-	19		ND ND		ND ND		ND ND	ND ND	ND	250
BS22-23	1	October 26, 2022	-	13	438 347	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	270
WS22-01	0-1.5	·	-										
	1 1	October 26, 2022	-	73	109	ND	ND	ND	ND	ND	ND	ND	130
WS22-02 WS22-03	0-1.5 0-1.5	October 26, 2022	-	17	ND 47	ND	ND	ND ND	ND	ND	ND	ND	ND 75
	0-1.5	October 26, 2022		17	47	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	75 77
WS22-04 WS22-05	0-3 0-2.5	October 26, 2022 October 26, 2022	-	13 14	51 135	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	77 78
WS22-05 WS22-06	0-2.5	October 26, 2022		27	259	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	170
WS22-06 WS22-07	0-2.5	October 26, 2022	-										
WS22-07 WS22-08	0-2	October 26, 2022	-	16 30	59 28	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	71 71
WS22-08 WS22-09	0-1	October 26, 2022	-	15	63	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	110
WS22-10	0-1	October 26, 2022	<u> </u>	18	126	ND	ND ND	ND ND	ND	ND ND	ND ND	ND	82
WS22-10	0-1	October 26, 2022		25	177	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	180
WS22-11	0-2.5	October 26, 2022	-	19	56	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	72
WS22-12 WS22-13	0-2.3	October 26, 2022		20	70	ND	ND ND	ND ND	ND	ND ND	ND ND	ND	75
WS22-13	0-3	October 26, 2022	-	25	119	ND	ND ND	ND ND	ND	ND ND	ND ND	ND	140
WS22-14 WS22-15	1.5-3	October 26, 2022	-	25	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND
WS22-15 WS22-16	2.5-3	October 26, 2022	-	70	160	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	100
WS22-10	2-2.5	October 26, 2022	<u> </u>										
WS22-17 WS22-18	1-2.5	October 26, 2022	-	33 35	228 92	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	170 74

[&]quot;ND" Not Detected at the Reporting Limit

Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria



[&]quot;-" indicates not analyzed/assessed

ATTACHMENT 3

District I 1625 N French Dr. Hobbs, NM 88240 District II 1301 W Grand Avenue, 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

RECEIVED

Form C-141 Revised March 17, 1999

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 SEP 0 2 7009 Submit 2 Copies to appropriate

BEP 0 2 7009 District Office in accordance

with Rule 116 on back
side of form

			Rele	ase Notific	ation	and Co	rrective A	ction			_
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Name of C			nergy				Roger Hernar				4
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Artesia, N											4
Facility N	ame Mes	sa Verde 6	Fed #5			Facility T	ype□Oil Wel	<u>l</u>	*		
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Unit Letter	Section 6	Township 024S	Range 032E	Feet from the 1980 -	North/ North	South Line	Feet from the 1980	East/W East	Vest Line	County Lea County, NM	
				NAT	URE	OF RELI	EASE				
Type of Relea	ase Oil and	Produced Wa	ter			Volume of	Release 5 bbls			Recovered□0	
Source of Re	lease Flowl	ine				Date and H 8-27-2009	lour of Occurrenc 2:30 PM	е '	Date and 2.30 PM	Hour of Discovery ☐8-27-2009	
Was Immedia	ite Notice C		Yes	No Not Ro	equired		Whom? BLM -	Lea Co			
By Whom?							Iour□ 8-28-2009				
Was a Water	course Reac		Yes 🛚	No		If YES, Vo	lume Impacting t	he Wate	ercourse.		
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Describe Are 8' radious arc				en.* back dragged th	e locatio	on.					
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*	· //.	./					OIL CON:	SERV	ATION	DIVISION	
Signature:	Kapi	He			•		ENV ENGINE District Supervi	ir:	•		
Printed Name	Roger He	rnandez				Approved by	District-Supervi	sor: 7	perff s	en Lebèma	
Title: Produc	tion Forem	an		-	-	Approval Dat	e:08/03/09	· F	Expiration 1	Date: 11/03/09	_
Date August	31, 2009	Phone 575-7	48-4238			Conditions of	`Approval:	01 141/4	COMICIOM.	Attached 19.2288	
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ATTACHMENT 4



Devon Energy Inspection Date: 2/9/2022 Client: Corporation Report Run Date: 2/10/2022 12:48 AM Site Location Name: Mesa Verde 6 Federal 5 30-025-32504 Client Contact Name: Wes Matthews API#: (575) 748-0176 Client Contact Phone #:

Unique Project ID Project Reference # Project Manager:

Project Owner:

Summary of Times		

Field Notes

15:41 Arrived on site to complete site delineation.

15:42 Using the CST-Berger line locator, a blind sweep revealed what seems to be an unmarked gas line.

Off site carbon fiber locator says "Santa Fe Energy Pipeline"

See pictures.

Arrived at Site

Departed Site

Did not borehole near line.

15:45 Completed BH22-01 to BH22-05 for horizontal delineation.

2/9/2022 7:30 AM

2/9/2022 4:00 PM

- •BH22-01 stepped out to BH22-06.
- •BH22-04 stepped out to BH22-07, then stepped out to BH22-09.
- •BH22-05 stepped out to BH22-08, then stepped out to BH22-10
- 15:45 Completed vertical delineation BH22-11, 12, and 13.

Next Steps & Recommendations

1 Create work plan



Site Photos





Locate sign indicating gas line that seems to go towards well head

Viewing Direction: East



BH22-02 West of pump jack

Viewing Direction: South



BH22-01 and step out BH22-06 Northwest of pump jack

Viewing Direction: Northeast



BH22-03 Southwest of spill near an assumed toe of spill area





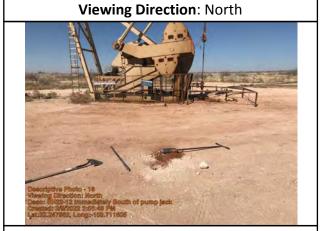
BH22-04 —> BH22-07 —> BH22-09 South of pump jack



BH22-05 —> BH22-08 —> BH22-10



BH22-11 Southwest of pump jack

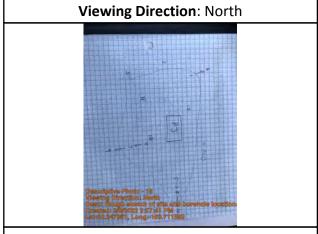


BH22-12 immediately South of pump jack

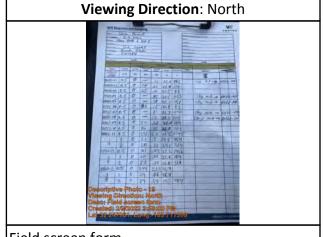




BH22-13 immediately Northwest of pump jack



Rough sketch of site and borehole locations

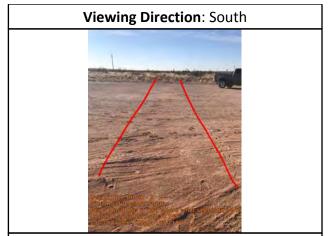


Field screen form



Sign description





Small dip in pad where what seems to be unmarked line



CST-Berger blind sweep line locator



Assumed spill area



West side of pump jack





North side of pump jack



East side of pump jack



Run on 2/10/2022 12:48 AM UTC Powered by www.krinkleldar.com Page 6 of 7



Daily Site Visit Signature

Inspector: Austin Harris

Signature:



Client: Devon Energy Inspection Date: 10/26/2022

Corporation

Site Location Name: Mesa Verde 6 Federal 5 Report Run Date: 10/26/2022 10:19 PM

Client Contact Name: Wes Matthews API #: 30-025-32504

Client Contact Phone #: (575) 748-0176

Unique Project ID Project Owner:

Project Reference # Project Manager:

Summary of Times

Arrived at Site 10/26/2022 8:00 AM

Departed Site 10/26/2022 3:27 PM

Field Notes

10:00 Confirmation sampling of excavation area

11:27 Operator on site to assist with any areas that potentially need slightly more excavation

15:28 Samples collected from base and walls from all of excavation. Field screening completed for tph and chlorides

Next Steps & Recommendations

1 Draft closure report

2 Wait for lab analysis

3 Backfill

4 Submit final report for closure



Site Photos



Final excavation



Final excavation



Final excavation





Final excavation



Final excavation



Final excavation



Final excavation





Final excavation



Final excavation



Final excavation



Final excavation





Final excavation



Final excavation



Final excavation



Daily Site Visit Signature

Inspector: Monica Peppin

Signature:

ATTACHMENT 5

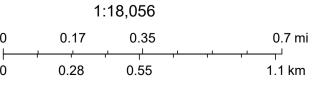
OSE POD Location Map



GIS WATERS PODs New Mexico State Trust Lands OSE District Boundary 0 Water Right Regulations Active Subsurface Estate **Both Estates**

Closure Area Pending

Artesian Planning Area



Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar

Plugged

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)				ers are est to lar	gest)				(NAD83 UTN	V in meters)			(In feet)	(I n feet)	(In feet)
POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	x	Y	Мар	Distance	Well Depth	Depth Water	Water Column
C 04775 POD1		CUB	LE	SE	SE	SE	06	245	32E	621789.3	3567860.4	•	920	105		
C 03555 POD1		С	LE	NE	NE	NW	05	245	32E	622748.5	3569233.6	•	1485	600	380	220
04672 POD 1		CUB	ED	NE	NW	SE	01	245	31E	619762.2	3568286.5	•	1655	110		
C 04712 POD1		CUB	LE	NW	SE	NW	31	23S	32E	620917.2	3570289.2	•	1671	55		
														Average [Depth to Wa	iter: 380 fee t
														Minimum	Depth: 380	feet
														Maximum	n Depth: 380) feet
ecord Count: 4																

UTM Filters (in meters):

Easting: 621370 **Northing:** 3568680 **Radius:** 002000

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11/24/24 6:40 PM MST Water Column/Average Depth to Water

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^{*} UTM location was derived from PLSS - see Help

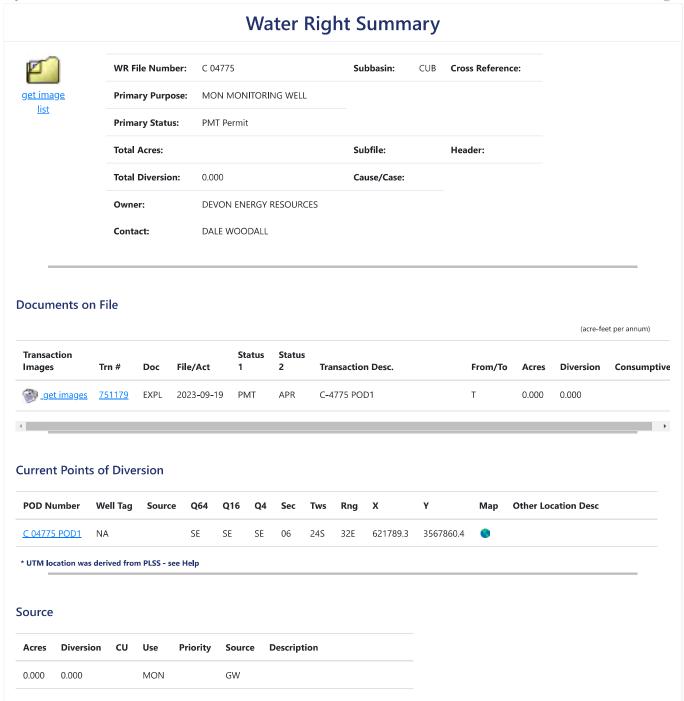
Point of Diversion Summary

				ers are smallest t		E			NAD83 UTM	in meters	
Well Tag	POD	Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Υ	Мар
NA	C 047	75 POD1	SE	SE	SE	06	245	32E	621789.3	3567860.4	
UTM location	n was de	erived from F	PLSS - see F	lelp							
Driller Lice	ense:	1833	Dri	ller Compan	y : '	VISION RI	ESOURG	CES, INC			
Driller Naı	ne:	JASON M	1ALEY								
Drill Start	Date:	2023-12-	-14 Dr i	ll Finish Dat	e: 2	2023-12-1	14		Plug Dat	e: 20)23-12-21
Log File D	ate:	2024-01-	12 PC	W Rcv Date:					Source:		
Pump Typ	e:		Pip	e Discharge	Size:				Estimate	d Yield:	
Casing Siz	e:		De	pth Well:		105			Depth W	ater:	

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11/24/24 6:45 PM MST Point of Diversion Summary

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11/24/24 6:50 PM MST Water Rights Summary

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WELL RECORD & LOG mesa Verde 6 fed.

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

e	OSE POD NO. (W			WELL TAG ID NO	f	C0	SE FILE NO(S 4775			
	well owner in devon Energy			- 20		PH	IONE (OPTIC	DNAL)		
	WELL OWNER I 05 E. Bender						TY bbs		STATE NM 88240	ZIP
	WELL LOCATION (FROM GPS)	1	TITUDE	EGREES MINUTES 32 14 -103 42		IN		REQUIRED: ONE TENT	TH OF A SECOND	
F	DESCRIPTION		NGITUDE NG WELL LOCATION TO	STREET ADDRESS AND COMMON	2770777		ECTION, TO	WNSHJIP, RANGE) WH	ERE AVAILABLE	
I	LICENSE NO.		NAME OF LICENSED	DRILLER Jason Maley				NAME OF WELL DRI	LLING COMPANY ision Resources	
1	DRILLING STAI 12-14-2		DRILLING ENDED 12-14-23	DEPTH OF COMPLETED WELL (F	T) BORE	HOLE D	EPTH (FT)	DEPTH WATER FIRS	ST ENCOUNTERED (F)	()
1	COMPLETED W	ELL IS:	ARTESIAN *add)W (UNCONFINED	0)		WATER LEVEL PLETED WELL D	DATE STATIO	MEASURE
	DRILLING FLUI		✓ AIR		/ES - SPECIFY: IER - SPECIFY:			CHECK	HERE IF PITLESS ADA	APTER IS
	DEPTH (fe	et bgl)	BORE HOLE DIAM (inches)	CASING MATERIAL ANI GRADE (include each casing string,	, and	CASIN ONNEC	TION E	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inche
H	0	95'	6"	note sections of screen) 2" PVC SCH40) (add c	Threa	diameter) ad	2"	SCH40	N/A
F	95'	105'	6"	2" PVC SCH40		Threa	ad	2"	SCH40	.05
								OSE OII JA	N 1:2 2024 pm1	153
-	DEPTH (fe	et bgl)	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATE RANGE B *(if using Centralizers for Artes)	BY INTERVAL			AMOUNT (cubic feet)	METHO PLACE	
				None Pulle	ed and Plugged					
-	OSE INTERNA									22/2022)

	DEPTH (fe	et bgl)		COLOR AND TY	PE OF MATERIAL E	NCOUNTERED -	WA	TER	ESTIMATED YIELD FOR
	FROM	то	THICKNESS (feet)	INCLUDE WATER-BI (attach supplem	EARING CAVITIES OF cental sheets to fully de		1 1 2 2 2 2	RING? S/NO)	WATER- BEARING ZONES (gpm)
I	0	10'	10'		Red coarse sand		Y	✓ N	
t	10'	30'	20'	Tar	Fine sand wih coarse r	ock	Y	√ N	
1	30'	40'	10'	Re	ed sand with white calic	he	Y	✓N	
1	40'	60'	20'	Ta	n sand with white calic	he	Y	✓N	
1	60'	80'	20'	J	Red sand with small roc	k	Y	√ N	
t	80'	105'	25'	Т	an fine sand with calich	ie	Y	✓ N	T.
1							Y	N	
1							Y	N	
1				P			Y	N	
1		_					Y	N	
ł							Y	N	
1							Y	N	
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1							Y	N	
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1			-				Y	N	
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		_					Y	N	
		-					Y	N	
3		-					Y	N	
	METHOD U			OF WATER-BEARING ST	RATA: L - SPECIFY: Dry		TOTAL EST WELL YIEL	IMATED	0
	WELL TEST	STAI	RESULTS - ATT RT TIME, END TI IFORMATION:	ACH A COPY OF DATA C ME, AND A TABLE SHOW	OLLECTED DURING ING DISCHARGE AN	D DRAWDOWN OV	CLUDING DIS ER THE TEST	ING PERIO	OD.
	PRINT NAM	IE(S) OF I	DRILL RIG SUPE	RVISOR(S) THAT PROVID	ED ONSITE SUPERVI	SION OF WELL CON	STRUCTION	OTHER TI	HAN LICENSER
9. Stores one	CORRECT	RECORD OF THE PROPERTY OF THE	of the above is older within:	FIES THAT, TO THE BEST DESCRIBED HOLE AND T SO DAYS AFTER COMPLE OF PRINT SIGNEE NAM	HAT HE OR SHE WIL TION OF WELL DRIL Maley	L FILE THIS WELL	JEF, THE FOR	REGOING H THE ST DATE	IS A TRUE AN ATE ENGINEE
		U				WD 20 WE	II BECOPD	e LOG (V	ersion 09/22/202
O	R OSE INTER	NAL USE		1		TRN NO.	LL RECORD	7 4	ci sion 09/22/202
II	ENO.	, , ,	40T-	I PO	DD NO.	I KN NO.	1511	11	

Mike A. Hamman, P.E. State Engineer



well Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 751179 File Nbr: C 04775

Well File Nbr: C 04775 POD1

Jan. 12, 2024

DALE WOODALL
DEVON ENERGY RESOURCES
205 E BENDER ROAD #150
HOBBS, NM 88240

Greetings:

The above numbered permit was issued in your name on 09/19/2023.

The Well Record was received in this office on 01/12/2024, stating that it had been completed on 12/14/2023, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 09/18/2024.

If you have any questions, please feel free to contact us.

Sincerely,

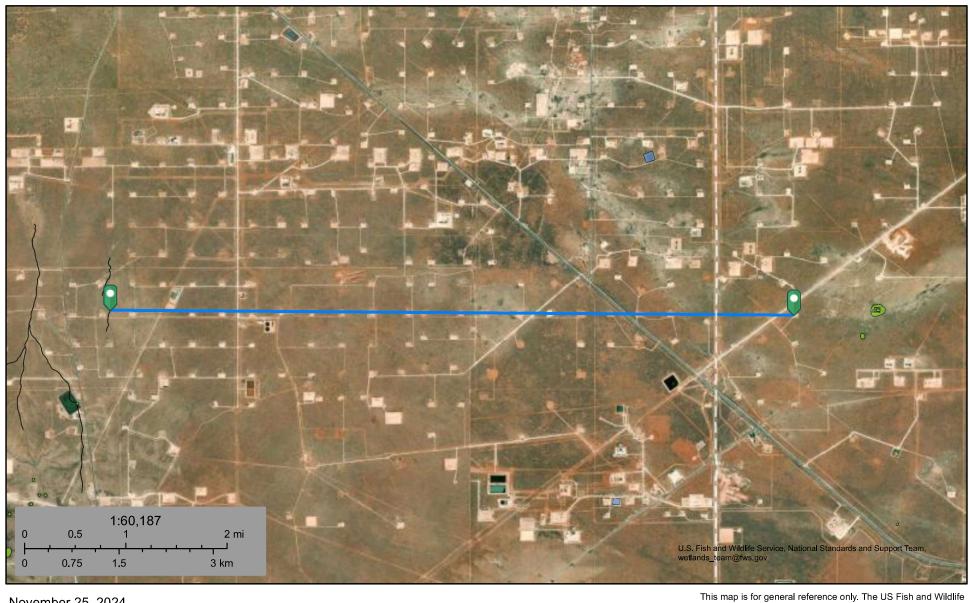
Maret Thompson (575)622-6521

drywell

U.S. Fish and Wildlife Service

National Wetlands Inventory

Intermittent 30,182 feet



November 25, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond



Other

Riverine

base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Service is not responsible for the accuracy or currentness of the



Pond 35,747 feet



November 25, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

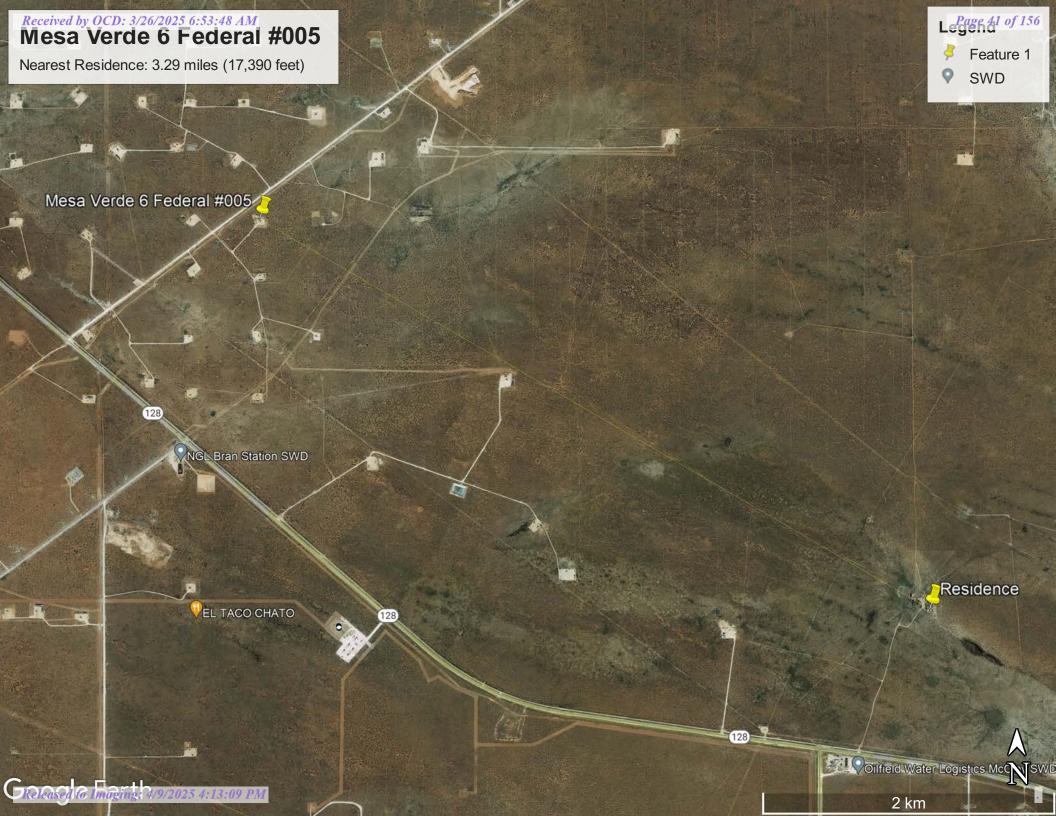
Freshwater Pond



Other



This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



Active & Inactive Points of Diversion

(with Ownership Information)

			(acre ft per annum)					and no	D has been replaced longer serves this file, file is closed)				=NW 2: mallest		SW 4=SE	:)	(NAD83 UTN	I in meters)		(meters)
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q64	q16	q4	Sec	Tws	Range	x	Y	Мар	Distance
<u>C 04775</u>	CUB	MON	0.000	DEVON ENERGY RESOURCES	LE	C 04775 POD1	NA				SE	SE	SE	06	24S	32E	621789.3	3567860.4	•	920.6
<u>C 03555</u>	С	STK	3.000	NGL NORTH RANCH LLC	LE	C 03555 POD1	NA			Shallow	NE	NE	NW	05	245	32E	622748.5	3569233.6	•	1,485.5
<u>C 04672</u>	CUB	EXP	0.000	OXY USA INC.	ED	C 04672 POD 1	NA				NE	NW	SE	01	245	31E	619762.2	3568286.5	•	1,655.3
<u>C 04712</u>	CUB	MON	0.000	HARVARD PETROLEUM COMPANY LLC	LE	C 04712 POD1	NA				NW	SE	NW	31	23S	32E	620917.2	3570289.2	•	1,671.7
4																				

Record Count: 4

Filters Applied:

UTM Filters (in meters): Easting: 621370 Northing: 3568680 Radius: 002000

Sorted By: Distance

* UTM location was derived from PLSS - see Help

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11/24/24 6:41 PM MST Active & Inactive Points of Diversion

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Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE NAD83 UTM in meters quarters are smallest to largest Well Tag **POD Nbr Q64** Q16 Q4 Rng Χ γ Мар Sec Tws NA C 03555 POD1 NE NE NW 05 **24S** 32E 622748.5 3569233.6 * UTM location was derived from PLSS - see Help Driller 1654 Driller NOT WORKING FOR HIRE--SIRMAN DRILLING AND CONSTRUC License: Company: Driller JOHN SIRMAN Name: Drill 2013-10-20 **Drill Finish** 2013-10-21 Plug Date: Start Date: Date: 2013-11-07 **PCW Rcv** Log File Source: Shallow Date: Date: **Pump** Pipe **Estimated** 5 Discharge Yield: Type: Size: Casing 6.00 **Depth Well:** 600 Depth 380 Size: Water: **Water Bearing Stratifications: Bottom** Description Top 550 Sandstone/Gravel/Conglomerate 475

Casing Perforations:

Тор	Bottom
460	520

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11/24/24 6:54 PM MST Point of Diversion Summary

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Water Right Summary



WR File Number:	C 03555	Subbasin:	С	Cross Reference:
Primary Purpose:	STK 72-12-1 LIVESTOCK WATERING			
Primary Status:	PMT Permit			
Total Acres:		Subfile:		Header:
Total Diversion:	3.000	Cause/Case:		
Owner:	NGL NORTH RANCH LLC			
Contact:	JIM WINTER			

Documents on File

(acre-feet per annum)

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion	Consumptive
get images	<u>755958</u>	COWNF	2024-01-31	CHG	PRC	C 03555	Т		0.000	
get images	<u>677211</u>	UWL	2020-08-06	UWL	ACC	C 03555	Т		0.000	
get images	633172	COWNF	2018-09-17	CHG	PRC	C 03555	T		0.000	
get images	<u>534311</u>	72121	2013-09-19	PMT	LOG	C 03555	T		3.000	
get images	<u>506470</u>	72121	2012-06-29	EXP	EXP	C 03555	Т		3.000	
4										•

Current Points of Diversion

							Rng	^	Υ	wap	Other Location Desc
<u>C 03555 POD1</u> NA	Shallow	NE	NE	NW	05	24\$	32E	622748.5	3569233.6	•	

 $[\]ensuremath{^*}$ UTM location was derived from PLSS - see Help

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11/24/24 6:56 PM MST Water Rights Summary

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Mesa Verde 6 Federal 5 Wetland



October 18, 2022

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

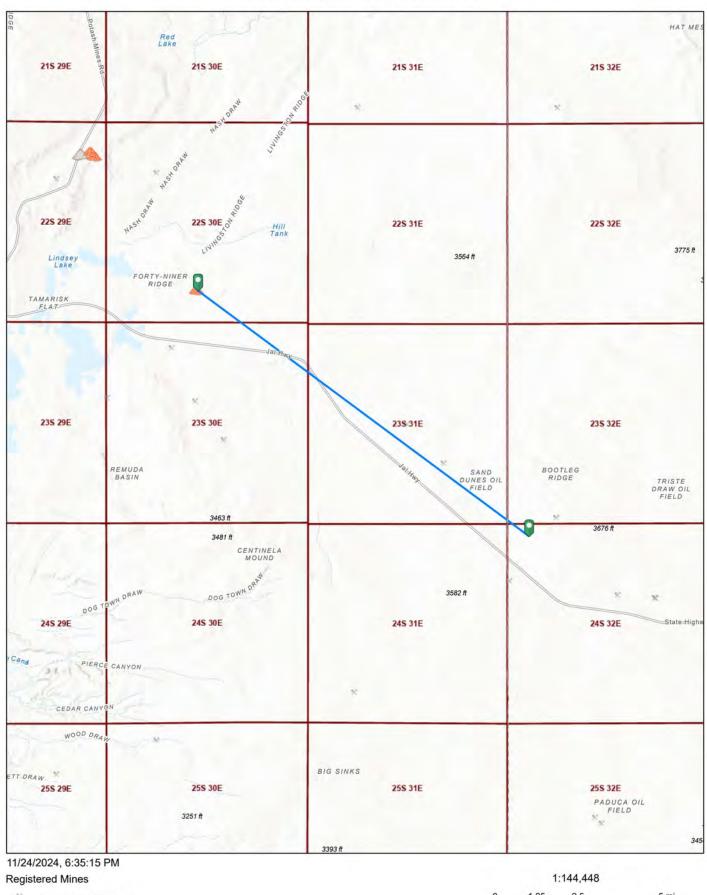
Lake

Riverine

Other

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Page 46 of 156



Aggregate, Stone etc.

Aggregate, Stone etc.

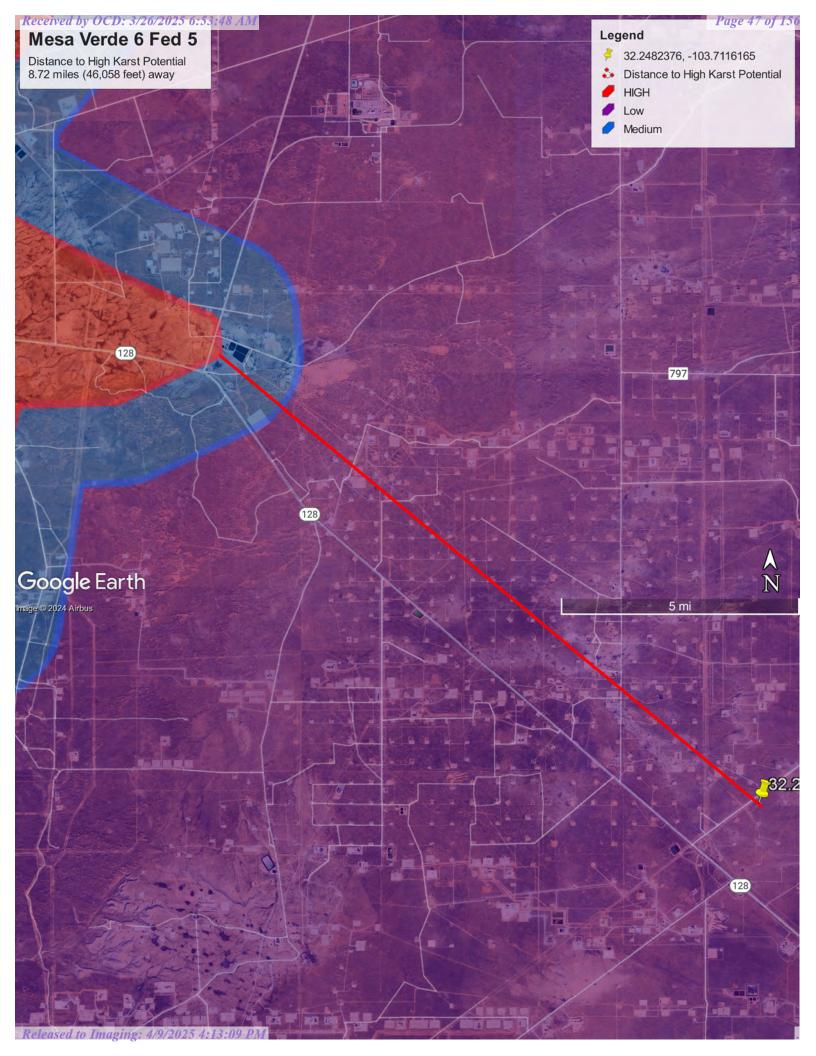


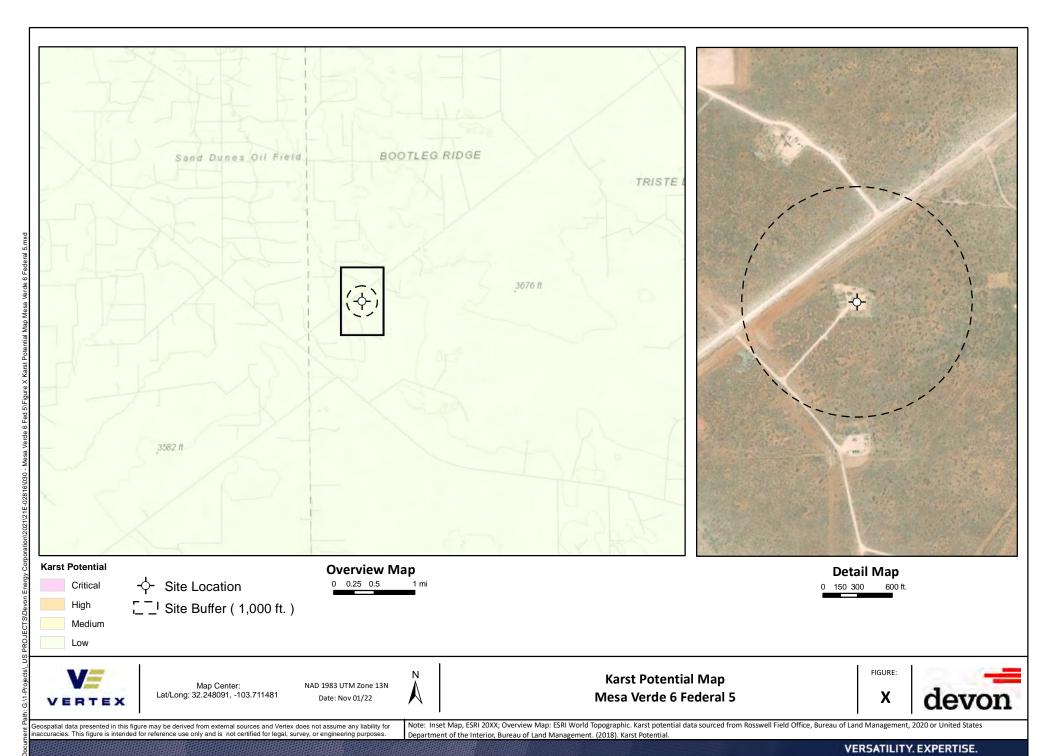
Salt

PLSS Townships
Released to Imaging: 4/9/2025 4:13:09 PM

2.5 1.25 5 mi 2.25

Esri, NASA, NGA, USGS, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS, BLM





OReleas 240 Imaging: 4/9/2025 4:999.09 PM

Received by OCD: 3/26/2025 6:53:48,AM National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average

Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD

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

depth less than one foot or with drainage areas of less than one square mile Zone X

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

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

Digital Data Available No Digital Data Available MAP PANELS Unmapped

digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap

accuracy standards

an authoritative property location. This map complies with FEMA's standards for the use of

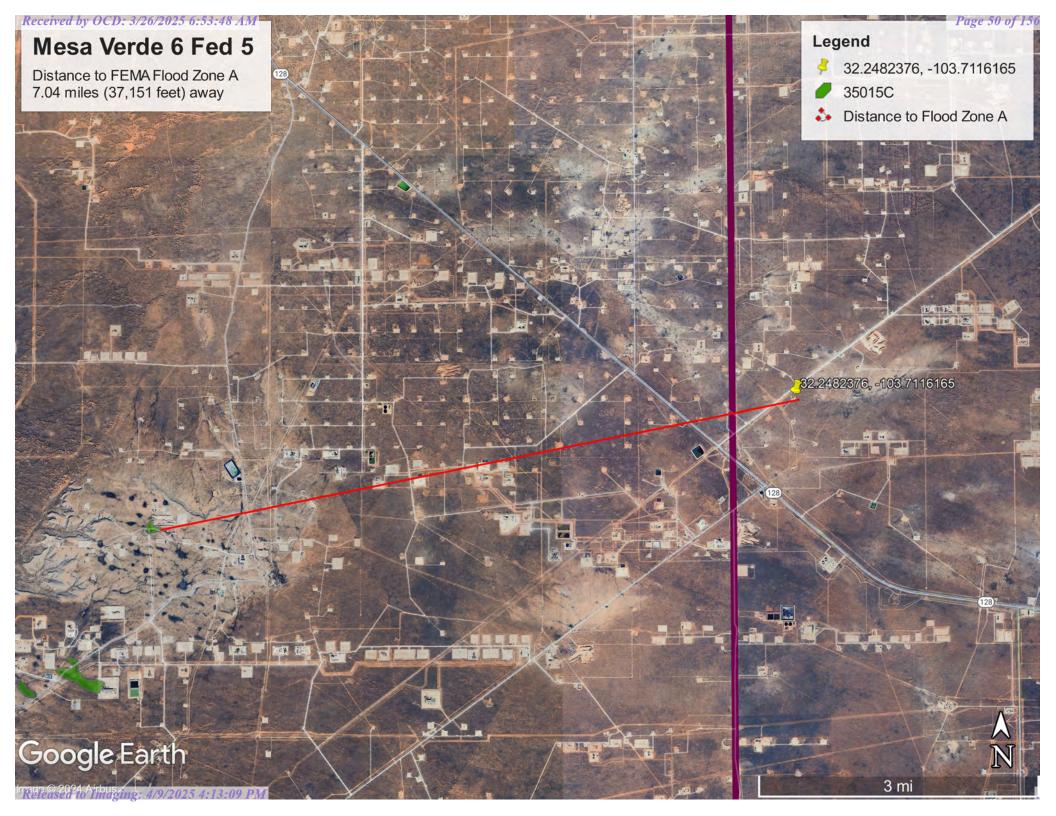
The pin displayed on the map is an approximate point selected by the user and does not represent

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/18/2022 at 1:23 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



2.000



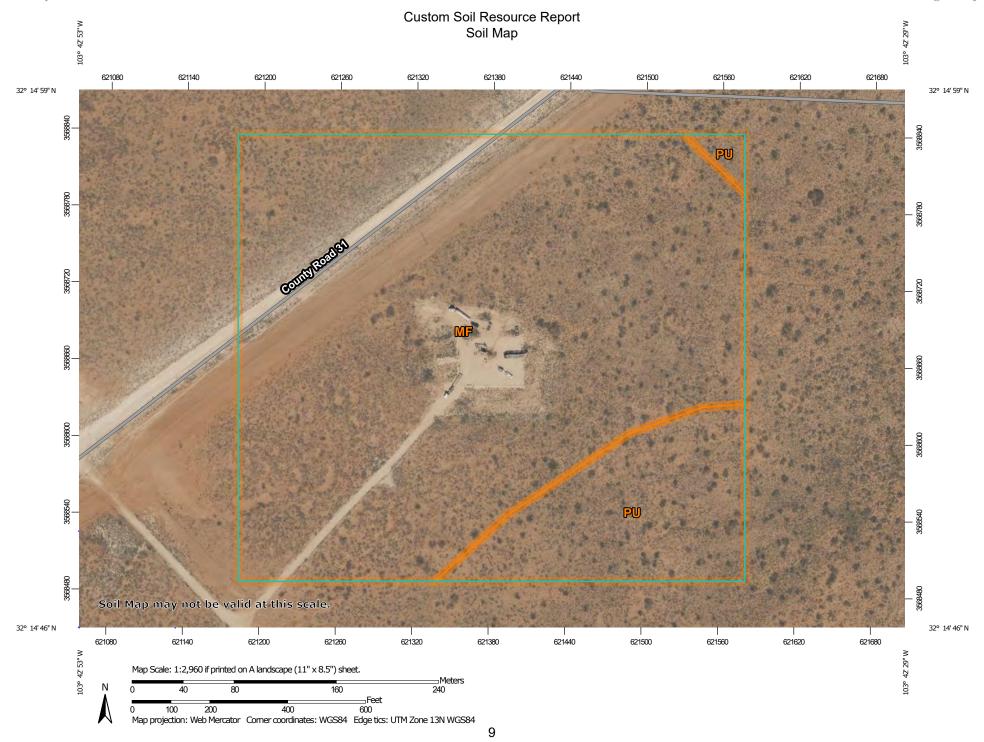


NRCS

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Lea County, New Mexico





MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines



Soil Map Unit Points

Special Point Features

ဖ

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip Sodic Spot

Spoil Area Stony Spot

å

Very Stony Spot

Ŷ

Wet Spot Other

Δ

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

00

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 19, Sep 8, 2022

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12. 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
MF	Maljamar and Palomas fine sands, 0 to 3 percent slopes	28.9	83.9%
PU	Pyote and Maljamar fine sands	5.6	16.1%
Totals for Area of Interest		34.5	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Lea County, New Mexico

MF—Maljamar and Palomas fine sands, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: dmqb Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 15 inches Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Maljamar and similar soils: 46 percent Palomas and similar soils: 44 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Maljamar

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand

Bt - 24 to 50 inches: sandy clay loam Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 40 to 60 inches to petrocalcic

Drainage class: Well drained Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 7e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Description of Palomas

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Alluvium derived from sandstone

Typical profile

A - 0 to 16 inches: fine sand
Bt - 16 to 60 inches: sandy clay loam
Bk - 60 to 66 inches: sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 45 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Moderate (about 7.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 5 percent

Ecological site: R070BC022NM - Sandhills

Hydric soil rating: No

Wink

Percent of map unit: 5 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 12 inches Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent Maljamar and similar soils: 44 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand

Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00

in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: A

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Description of Maljamar

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand

Bt - 24 to 50 inches: sandy clay loam
Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 40 to 60 inches to petrocalcic

Drainage class: Well drained Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent

Ecological site: R070BC022NM - Sandhills

Hydric soil rating: No



Ecological site R070BD003NM Loamy Sand

Accessed: 11/08/2022

General information

Provisional. A provisional ecological site description has undergone quality control and quality assurance review. It contains a working state and transition model and enough information to identify the ecological site.

Figure 1. Mapped extent

Areas shown in blue indicate the maximum mapped extent of this ecological site. Other ecological sites likely occur within the highlighted areas. It is also possible for this ecological site to occur outside of highlighted areas if detailed soil survey has not been completed or recently updated.

Associated sites

R070BD004NM	Sandy Sandy
R070BD005NM	Deep Sand Deep Sand

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site is on uplands, plains, dunes, fan piedmonts and in inter dunal areas. The parent material consists of mixed alluvium and or eolian sands derived from sedimentary rock. Slope range on this site range from 0 to 9 percent with the average of 5 percent.

Low stabilized dunes may occur occasionally on this site. Elevations range from 2,800 to 5,000 feet.

Table 2. Representative physiographic features

Landforms	(1) Fan piedmont(2) Alluvial fan(3) Dune
Elevation	2,800–5,000 ft
Slope	0–9%
Aspect	Aspect is not a significant factor

Climatic features

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common. Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity-short duration thunderstorms.

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes.

The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.

The average frost-free season is 207 to 220 days. The last killing frost being late March or early April and the first killing frost being in later October or early November.

Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of this site. Strong winds blow from the southwest from January through June, which accelerates soil drying during a critical period for cool season plant growth.

Climate data was obtained from http://www.wrcc.sage.dri.edu/summary/climsmnm.html web site using 50% probability for freeze-free and frost-free seasons using 28.5 degrees F and 32.5 degrees F respectively.

Table 3. Representative climatic features

Frost-free period (average)	221 days
Freeze-free period (average)	240 days
Precipitation total (average)	13 in

Influencing water features

This site is not influenced from water from wetlands or streams.

Soil features

Soils are moderately deep or very deep. Surface textures are loamy fine sand, fine sandy loam, loamy very fine sand or gravelly sandy loam.

Subsurface is a loamy fine sand, coarse sandy loam, fine sandy loam or loam that averages less than 18 percent clay and less than 15 percent carbonates.

Substratum is a fine sandy loam or gravelly fine sandy loam with less than 15 percent gravel and with less than 40 percent calcium carbonate. Some layers high in lime or with caliche fragments may occur at depths of 20 to 30 inches.

These soils, if unprotected by plant cover and organic residue, become wind blown and low hummocks are formed.

Minimum and maximum values listed below represent the characteristic soils for this site.

Characteristic soils are:

Maljamar

Berino

Parjarito

Palomas

Wink

Pyote

Table 4. Representative soil features

Surface texture	(1) Fine sand(2) Fine sandy loam(3) Loamy fine sand
Family particle size	(1) Sandy
Drainage class	Well drained to somewhat excessively drained
Permeability class	Moderate to moderately rapid

Soil depth	40–72 in
Surface fragment cover <=3"	0–10%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	5–7 in
Calcium carbonate equivalent (0-40in)	3–40%
Electrical conductivity (0-40in)	2–4 mmhos/cm
Sodium adsorption ratio (0-40in)	0–2
Soil reaction (1:1 water) (0-40in)	6.6–8.4
Subsurface fragment volume <=3" (Depth not specified)	4–12%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

Overview

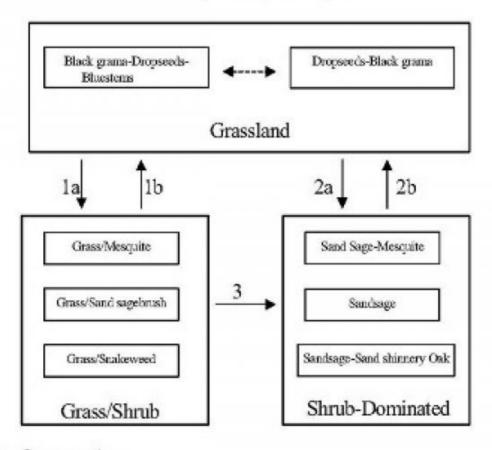
The Loamy Sand site intergrades with the Deep Sand and Sandy sites (SD-3). These sites can be differentiated by surface soil texture and depth to a textural change. Loamy Sand and Deep Sand sites have coarse textured (sands and loamy sand) surface soils while Sandy sites have moderately coarse textured (sandy loam and fine sandy loam) surfaces. Although Loamy Sand and Deep Sand sites have similar surface textures, the depth to a textural change is different—Loamy Sand sub-surface textures typically increase in clay at approximately 20 to 30 inches, and Deep Sand sites not until around 40 inches.

The historic plant community of Loamy Sand sites is dominated by black grama (*Bouteloua eriopoda*), dropseeds (*Sporobolus flexuosus*, *S. contractus*, *S. cryptandrus*), and bluestems (*Schizachyrium scoparium* and *Andropogon hallii*), with scattered shinnery oak (*Quercus havardii*) and sand sage (*Artemisia filifolia*). Perennial and annual forb abundance and distribution are dependent on precipitation. Litter and to a lesser extent, bare ground, are a significant proportion of ground cover while grasses compose the remainder. Decreases in black grama indicate a transition to either a grass/shrub or shrub-dominated state. The grass/shrub state is composed of grasses/honey mesquite (*Prosopis glandulosa*), grasses/broom snakeweed (*Gutierrezia sarothrae*), or grasses/sand sage. The shrub-dominated state occurs after a severe loss of grass cover and a prevalence of sand sage with secondary shinnery oak and mesquite. Heavy grazing intensity and/or drought are influential drivers in decreasing black grama and bluestems and subsequently increasing shrub cover, erosion, and bare patches. Historical fire suppression also encourages shrub pervasiveness and a competitive advantage over grass species (McPherson 1995). Brush and grazing management, however, may reverse grass/shrub and shrub-dominated states toward the grassland-dominated historic plant community.

State and transition model

Plant Communities and Transitional Pathways (diagram):

MLRA-42, SD-3, Loamy Sand



- 1a. Drought, over grazing, fire suppression.
- 1b. Brush control, prescribed grazing
- 2.a Severe loss of grass cover, fire suppression, erosion.
- 2b. Brush control, seeding, prescribed grazing.
- Continued loss of grass cover, erosion.

Figure 4.

State 1 Historic Climax Plant Community

Community 1.1 Historic Climax Plant Community

Grassland: The historic plant community is a uniformly distributed grassland dominated by black grama, dropseeds,

and bluestems. Sand sage and shinnery oak are evenly dispersed throughout the grassland due to the coarse soil surface texture. Perennial and annual forbs are common but their abundance and distribution are reflective of precipitation. Bluestems initially, followed by black grama, decrease with drought and heavy grazing intensity. Historical fire frequency is unknown but likely occurred enough to remove small shrubs to the competitive advantage of grass species. Fire suppression, drought conditions, and excessive grazing drive most grass species out of competition with shrub species. Diagnosis: Grassland dominated by black grama, dropseeds, and bluestems. Shrubs, such as sand sage, shinnery oak, and mesquite are dispersed throughout the grassland. Forbs are present and populations fluctuate with precipitation variability.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	442	833	1224
Forb	110	208	306
Shrub/Vine	98	184	270
Total	650	1225	1800

Table 6. Ground cover

Tree foliar cover	0%			
Shrub/vine/liana foliar cover	0%			
Grass/grasslike foliar cover	28%			
Forb foliar cover	0%			
Non-vascular plants	0%			
Biological crusts	0%			
Litter	50%			
Surface fragments >0.25" and <=3"				
Surface fragments >3"	0%			
Bedrock	0%			
Water	0%			
Bare ground	22%			

Figure 6. Plant community growth curve (percent production by month). NM2803, R042XC003NM-Loamy Sand-HCPC. SD-3 Loamy Sand - Warm season plant community .

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0	3	5	10	10	25	30	12	5	0	0

State 2 Grass/Shrub

Community 2.1 Grass/Shrub





*Black grame/Mesquite community, with some dropseeds, threeours, and scattered sand shirnery oak *Oracs cover low to mederate

Grass/Shrub State: The grass/shrub state is dominated by communities of grasses/mesquite, grasses/snakeweed, or grasses/sand sage. Decreases in black grama and bluestem species lead to an increase in bare patches and mesquite which further competes with grass species. An increase of dropseeds and threeawns occurs. Grass distribution becomes more patchy with an absence or severe decrease in black grama and bluestems. Mesquite provides nitrogen and soil organic matter to co-dominant grasses (Ansley and Jacoby 1998, Ansley et al. 1998). Mesquite mortality when exposed to fire is low due to aggressive resprouting abilities. Herbicide application combined with subsequent prescribed fire may be more effective in mesquite reduction (Britton and Wright 1971). Diagnosis: This state is dominated by an increased abundance of communities including grass/mesquite, grass/snakeweed, or grass/sand sage. Dropseeds and threeawns have a patchy distribution. Transition to Grass/Shrub State (1a): The historic plant community begins to shift toward the grass/shrub state as drivers such as drought, fire suppression, interspecific competition, and excessive grazing contribute to alterations in soil properties and herbaceous cover. Cover loss and surface soil erosion are initial indicators of transition followed by a decrease in black grama with a subsequent increase of dropseeds, threeawns, mesquite, and snakeweed. Snakeweed has been documented to outcompete black grama especially under conditions of fire suppression and drought (McDaniel et al. 1984). Key indicators of approach to transition: • Loss of black grama cover • Surface soil erosion • Bare patch expansion • Increased dropseed/threeawn and mesquite, snakeweed, or sand sage abundances Transition to Historic Plant Community (1b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community.

State 3 Shrub Dominated

Community 3.1 Shrub Dominated

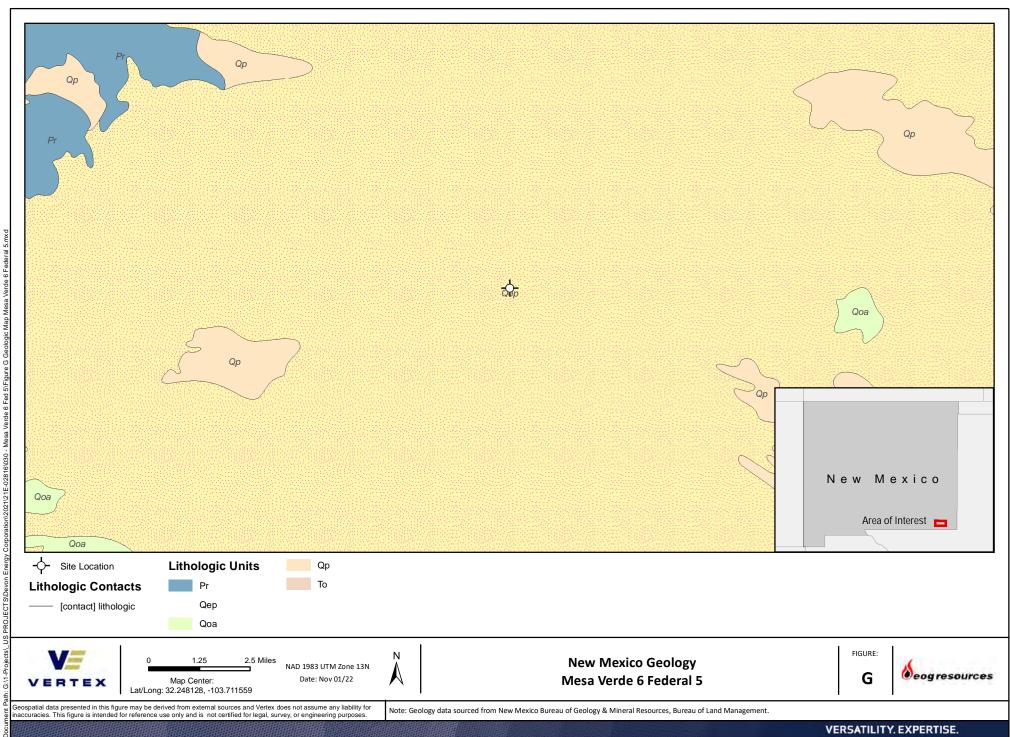
Shrub-Dominated State: The shrub-dominated state results from a severe loss of grass cover. This state's primary species is sand sage. Shinnery oak and mesquite also occur; however, grass cover is limited to intershrub distribution. Sand sage stabilizes light sandy soils from wind erosion, which enhances protected grass/forb cover (Davis and Bonham 1979). However, shinnery oak also responds to the sandy soils with dense stands due to an

aggressive rhizome system. Shinnery oak's extensive root system promotes competitive exclusion of grasses and forbs. Sand sage, shinnery oak, and mesquite can be controlled with herbicide (Herbel et al. 1979, Pettit 1986). Transition to Shrub-Dominated (2a): Severe loss of grass species with increased erosion and fire suppression will result in a transition to a shrub-dominated state with sand sage, Shin oak, and honey mesquite directly from the grassland-dominated state. Key indicators of approach to transition: • Severe loss of grass species cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite abundance Transition to Historic Plant Community (2b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community. In addition, seeding with native grass species will augment the transition to a grassland-dominated state. Transition to Shrub-Dominated (3): If the grass/shrub site continues to lose grass cover with soil erosion, the site will transition to a shrub-dominated state with sand sage, shinnery oak, and honey mesquite. Key indicators of approach to transition: • Continual loss of dropseeds/threeawns cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite/dropseed/threeawn and mesquite/snakeweed abundance

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass	/Grasslike	•		•	
1	Warm Season	61–123			
	little bluestem	SCSC	Schizachyrium scoparium	61–123	_
2	Warm Season	•		37–61	
	sand bluestem	ANHA	Andropogon hallii	37–61	_
3	Warm Season	37–61			
	cane bluestem	BOBA3	Bothriochloa barbinodis	37–61	_
	silver bluestem	BOSA	Bothriochloa saccharoides	37–61	_
4	Warm Season	123–184			
	black grama	BOER4	Bouteloua eriopoda	123–184	_
	bush muhly	MUPO2	Muhlenbergia porteri	123–184	_
5	Warm Season	•	-	123–184	
	thin paspalum	PASE5	Paspalum setaceum	123–184	_
	plains bristlegrass	SEVU2	Setaria vulpiseta	123–184	_
	fringed signalgrass	URCI	Urochloa ciliatissima	123–184	_
6	Warm Season	123–184			
	spike dropseed	SPCO4	Sporobolus contractus	123–184	_
	sand dropseed	SPCR	Sporobolus cryptandrus	123–184	_
	mesa dropseed	SPFL2	Sporobolus flexuosus	123–184	_
7	Warm Season	61–123			
	hooded windmill grass	CHCU2	Chloris cucullata	61–123	_
	Arizona cottontop	DICA8	Digitaria californica	61–123	_
9	Other Perennial Grasses	37–61			
	Grass, perennial	2GP	Grass, perennial	37–61	_
Shrub	/Vine				
8	Warm Season	37–61			
	New Mexico feathergrass	HENE5	Hesperostipa neomexicana	37–61	_
	giant dropseed	SPGI	Sporobolus giganteus	37–61	_
10	Shrub	•	•	61–123	



ATTACHMENT 6



Dhugal Hanton <vertexresourcegroupusa@gmail.com>

48 hr Notification confirmatory sampling

2 messages

Dhugal Hanton <vertexresourcegroupusa@gmail.com>
To: "CFO_Spill, BLM_NM"

pll
@blm.gov>

Fri, Oct 21, 2022 at 5:05 PM

Good afternoon,

Please accept this email as a notification of a confirmatory sampling at Mesa Verde 6 Fed 5 NGRL0927342490

This work will be completed on behalf of Devon Energy Production Company.

On Wednesday, October 26, 2022 at approximately 8:00 a.m., McKitrick Wier will be on site to conduct confirmation sampling. He can be reached at 575-361-9639. If you need directions to the site, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 346-814-1413

Thank you, Kent

Kent Stallings P.G.

Project Manager

Vertex Resource Services Inc. 3101 Boyd Drive, Carlsbad, NM 88220

P 575.725.5001 C 346.814.1413

www.vertex.ca

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Wed, Oct 26, 2022 at 8:55 AM

[Quoted text hidden]



Dhugal Hanton <vertexresourcegroupusa@gmail.com>

48 hour confirmation sampling notice

2 messages

 Tue, Oct 25, 2022 at 8:37 AM

Please accept this email as a notification of a confirmatory sampling at Mesa Verde 6 Fed 5 NGRL0927342490

This work will be completed on behalf of Devon Energy Production Company.

On Thursday, October 27, 2022 and Friday, October 28, 2022 at approximately 8:00 a.m., McKitrick Wier will be on site to conduct confirmation sampling. He can be reached at 575-361-9639. If you need directions to the site, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 346-814-1413

Thank you, Kent

Kent Stallings P.G.

Project Manager

Vertex Resource Services Inc. 3101 Boyd Drive, Carlsbad, NM 88220

P 575.725.5001 C 346.814.1413 F

www.vertex.ca

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Dhugal Hanton <vertexresourcegroupusa@gmail.com> To: mpeppin@vertex.ca

Tue, Nov 8, 2022 at 9:18 AM

[Quoted text hidden]

ATTACHMENT 7



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

February 23, 2022

Brandon Schafer Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040

FAX

RE: Mesa Verde 6 Fed 5 OrderNo.: 2202641

Dear Brandon Schafer:

Hall Environmental Analysis Laboratory received 11 sample(s) on 2/12/2022 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: 2/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-02 0.5'

 Project:
 Mesa Verde 6 Fed 5
 Collection Date: 2/9/2022 9:00:00 AM

 Lab ID:
 2202641-001
 Matrix: SOIL
 Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	2/18/2022 3:21:11 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/18/2022 3:21:11 AM
Surr: DNOP	86.6	51.1-141	%Rec	1	2/18/2022 3:21:11 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/16/2022 1:39:00 AM
Surr: BFB	97.6	70-130	%Rec	1	2/16/2022 1:39:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	2/16/2022 1:39:00 AM
Toluene	ND	0.049	mg/Kg	1	2/16/2022 1:39:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	2/16/2022 1:39:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	2/16/2022 1:39:00 AM
Surr: 4-Bromofluorobenzene	84.8	70-130	%Rec	1	2/16/2022 1:39:00 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	420	60	mg/Kg	20	2/18/2022 11:19:12 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 interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 2/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-03 0.5'

 Project:
 Mesa Verde 6 Fed 5
 Collection Date: 2/9/2022 9:10:00 AM

 Lab ID:
 2202641-002
 Matrix: SOIL
 Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	2/18/2022 3:56:51 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/18/2022 3:56:51 PM
Surr: DNOP	103	51.1-141	%Rec	1	2/18/2022 3:56:51 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/16/2022 1:59:00 AM
Surr: BFB	101	70-130	%Rec	1	2/16/2022 1:59:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.025	mg/Kg	1	2/16/2022 1:59:00 AM
Toluene	ND	0.050	mg/Kg	1	2/16/2022 1:59:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	2/16/2022 1:59:00 AM
Xylenes, Total	ND	0.10	mg/Kg	1	2/16/2022 1:59:00 AM
Surr: 4-Bromofluorobenzene	88.8	70-130	%Rec	1	2/16/2022 1:59:00 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	130	60	mg/Kg	20	2/18/2022 11:56:13 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Xylenes, Total

Chloride

Surr: 4-Bromofluorobenzene

EPA METHOD 300.0: ANIONS

Analytical Report Lab Order 2202641

Date Reported: 2/23/2022

2/16/2022 2:18:00 AM 2/16/2022 2:18:00 AM

2/19/2022 12:08:33 AM

Analyst: MRA

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-06 0.5

 Project:
 Mesa Verde 6 Fed 5
 Collection Date: 2/9/2022 9:30:00 AM

 Lab ID:
 2202641-003
 Matrix: SOIL
 Received Date: 2/12/2022 8:55:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 10 9.7 mg/Kg 1 2/18/2022 3:41:44 AM Motor Oil Range Organics (MRO) ND 2/18/2022 3:41:44 AM 48 mg/Kg 1 Surr: DNOP 58.6 51.1-141 %Rec 1 2/18/2022 3:41:44 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 2/16/2022 2:18:00 AM 5.0 mg/Kg 1 Surr: BFB 101 70-130 %Rec 1 2/16/2022 2:18:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 2/16/2022 2:18:00 AM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 2/16/2022 2:18:00 AM Ethylbenzene ND 0.050 mg/Kg 1 2/16/2022 2:18:00 AM

ND

84.9

69

0.099

70-130

61

mg/Kg

%Rec

ma/Ka

1

1

20

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

 $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 2/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-09 0.5'

 Project:
 Mesa Verde 6 Fed 5
 Collection Date: 2/9/2022 9:40:00 AM

 Lab ID:
 2202641-004
 Matrix: SOIL
 Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	2/18/2022 3:51:58 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/18/2022 3:51:58 AM
Surr: DNOP	56.3	51.1-141	%Rec	1	2/18/2022 3:51:58 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/16/2022 2:38:00 AM
Surr: BFB	102	70-130	%Rec	1	2/16/2022 2:38:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.025	mg/Kg	1	2/16/2022 2:38:00 AM
Toluene	ND	0.049	mg/Kg	1	2/16/2022 2:38:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	2/16/2022 2:38:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	2/16/2022 2:38:00 AM
Surr: 4-Bromofluorobenzene	88.3	70-130	%Rec	1	2/16/2022 2:38:00 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	170	60	mg/Kg	20	2/19/2022 12:20:54 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 2/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-10 0.5'

 Project:
 Mesa Verde 6 Fed 5
 Collection Date: 2/9/2022 9:50:00 AM

 Lab ID:
 2202641-005
 Matrix: SOIL
 Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	2/18/2022 4:02:12 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/18/2022 4:02:12 AM
Surr: DNOP	74.6	51.1-141	%Rec	1	2/18/2022 4:02:12 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/16/2022 3:37:00 AM
Surr: BFB	95.4	70-130	%Rec	1	2/16/2022 3:37:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	2/16/2022 3:37:00 AM
Toluene	ND	0.047	mg/Kg	1	2/16/2022 3:37:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	2/16/2022 3:37:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	2/16/2022 3:37:00 AM
Surr: 4-Bromofluorobenzene	83.8	70-130	%Rec	1	2/16/2022 3:37:00 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	320	60	mg/Kg	20	2/19/2022 12:33:15 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 interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 2/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-11 0.5'

 Project:
 Mesa Verde 6 Fed 5
 Collection Date: 2/9/2022 11:00:00 AM

 Lab ID:
 2202641-006
 Matrix: SOIL
 Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	210	9.6	mg/Kg	1	2/18/2022 4:12:27 AM
Motor Oil Range Organics (MRO)	170	48	mg/Kg	1	2/18/2022 4:12:27 AM
Surr: DNOP	89.4	51.1-141	%Rec	1	2/18/2022 4:12:27 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/16/2022 3:57:00 AM
Surr: BFB	95.0	70-130	%Rec	1	2/16/2022 3:57:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	2/16/2022 3:57:00 AM
Toluene	ND	0.049	mg/Kg	1	2/16/2022 3:57:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	2/16/2022 3:57:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	2/16/2022 3:57:00 AM
Surr: 4-Bromofluorobenzene	82.9	70-130	%Rec	1	2/16/2022 3:57:00 AM
EPA METHOD 300.0: ANIONS					Analyst: LRN
Chloride	4900	150	mg/Kg	50	2/21/2022 3:59:14 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 2/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-11 1.0'

 Project:
 Mesa Verde 6 Fed 5
 Collection Date: 2/9/2022 11:30:00 AM

 Lab ID:
 2202641-007
 Matrix: SOIL
 Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/18/2022 4:22:45 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/18/2022 4:22:45 AM
Surr: DNOP	87.0	51.1-141	%Rec	1	2/18/2022 4:22:45 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/16/2022 4:16:00 AM
Surr: BFB	102	70-130	%Rec	1	2/16/2022 4:16:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	2/16/2022 4:16:00 AM
Toluene	ND	0.047	mg/Kg	1	2/16/2022 4:16:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	2/16/2022 4:16:00 AM
Xylenes, Total	ND	0.094	mg/Kg	1	2/16/2022 4:16:00 AM
Surr: 4-Bromofluorobenzene	85.3	70-130	%Rec	1	2/16/2022 4:16:00 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	520	60	mg/Kg	20	2/19/2022 12:57:57 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 2/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-12 0.5'

 Project:
 Mesa Verde 6 Fed 5
 Collection Date: 2/9/2022 12:00:00 PM

 Lab ID:
 2202641-008
 Matrix: SOIL
 Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	32	9.8	mg/Kg	1	2/18/2022 4:33:11 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/18/2022 4:33:11 AM
Surr: DNOP	71.4	51.1-141	%Rec	1	2/18/2022 4:33:11 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/16/2022 4:36:00 AM
Surr: BFB	95.8	70-130	%Rec	1	2/16/2022 4:36:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.025	mg/Kg	1	2/16/2022 4:36:00 AM
Toluene	ND	0.050	mg/Kg	1	2/16/2022 4:36:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	2/16/2022 4:36:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	2/16/2022 4:36:00 AM
Surr: 4-Bromofluorobenzene	84.2	70-130	%Rec	1	2/16/2022 4:36:00 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	1100	59	mg/Kg	20	2/19/2022 1:10:18 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

 $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 2/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-12 1.0'

 Project:
 Mesa Verde 6 Fed 5
 Collection Date: 2/9/2022 12:30:00 PM

 Lab ID:
 2202641-009
 Matrix: SOIL
 Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	2/18/2022 4:43:41 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/18/2022 4:43:41 AM
Surr: DNOP	80.2	51.1-141	%Rec	1	2/18/2022 4:43:41 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/16/2022 4:56:00 AM
Surr: BFB	96.4	70-130	%Rec	1	2/16/2022 4:56:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	2/16/2022 4:56:00 AM
Toluene	ND	0.048	mg/Kg	1	2/16/2022 4:56:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	2/16/2022 4:56:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	2/16/2022 4:56:00 AM
Surr: 4-Bromofluorobenzene	83.0	70-130	%Rec	1	2/16/2022 4:56:00 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	200	60	mg/Kg	20	2/19/2022 1:47:20 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 2/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-13 0.5'

 Project:
 Mesa Verde 6 Fed 5
 Collection Date: 2/9/2022 1:00:00 PM

 Lab ID:
 2202641-010
 Matrix: SOIL
 Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	200	9.4	mg/Kg	1	2/18/2022 4:54:14 AM
Motor Oil Range Organics (MRO)	190	47	mg/Kg	1	2/18/2022 4:54:14 AM
Surr: DNOP	70.0	51.1-141	%Rec	1	2/18/2022 4:54:14 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/16/2022 5:16:00 AM
Surr: BFB	93.6	70-130	%Rec	1	2/16/2022 5:16:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.025	mg/Kg	1	2/16/2022 5:16:00 AM
Toluene	ND	0.050	mg/Kg	1	2/16/2022 5:16:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	2/16/2022 5:16:00 AM
Xylenes, Total	ND	0.10	mg/Kg	1	2/16/2022 5:16:00 AM
Surr: 4-Bromofluorobenzene	82.6	70-130	%Rec	1	2/16/2022 5:16:00 AM
EPA METHOD 300.0: ANIONS					Analyst: LRN
Chloride	5200	300	mg/Kg	100	2/21/2022 4:11:38 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

 $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 2/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-13 1.0'

 Project:
 Mesa Verde 6 Fed 5
 Collection Date: 2/9/2022 1:30:00 PM

 Lab ID:
 2202641-011
 Matrix: SOIL
 Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	2/18/2022 5:04:51 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/18/2022 5:04:51 AM
Surr: DNOP	108	51.1-141	%Rec	1	2/18/2022 5:04:51 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/16/2022 5:35:00 AM
Surr: BFB	92.7	70-130	%Rec	1	2/16/2022 5:35:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	2/16/2022 5:35:00 AM
Toluene	ND	0.047	mg/Kg	1	2/16/2022 5:35:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	2/16/2022 5:35:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	2/16/2022 5:35:00 AM
Surr: 4-Bromofluorobenzene	79.5	70-130	%Rec	1	2/16/2022 5:35:00 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	520	60	mg/Kg	20	2/19/2022 2:12:02 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- 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#: **2202641**

23-Feb-22

Client: Vertex Resources Services, Inc.

Project: Mesa Verde 6 Fed 5

Sample ID: MB-65654 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 65654 RunNo: 85952

Prep Date: 2/18/2022 Analysis Date: 2/18/2022 SeqNo: 3027713 Units: mg/Kg

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

Chloride ND 30

Sample ID: LCS-65654 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 65654 RunNo: 85952

Prep Date: 2/18/2022 Analysis Date: 2/18/2022 SeqNo: 3027714 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 90.5 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 interference

B Analyte detected in the associated Method Blank

E Estimated value

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#: **2202641**

23-Feb-22

Client: Vertex Resources Services, Inc.

Project: Mesa Verde 6 Fed 5

Sample ID: LCS-65570 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 65570 RunNo: 85916

Prep Date: 2/16/2022 Analysis Date: 2/17/2022 SeqNo: 3025512 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Diesel Range Organics (DRO) 10 0 57 50.00 114 68.9 135

Surr: DNOP 4.1 5.000 82.1 51.1 141

Sample ID: MB-65570 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 65570 RunNo: 85916

Prep Date: 2/16/2022 Analysis Date: 2/17/2022 SeqNo: 3025517 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 8.9 10.00 89.4 51.1 141

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 13 of 15

Hall Environmental Analysis Laboratory, Inc.

WO#: **2202641**

23-Feb-22

Client: Vertex Resources Services, Inc.

Project: Mesa Verde 6 Fed 5

Sample ID: Ics-65538 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 65538 RunNo: 85851

Prep Date: 2/14/2022 Analysis Date: 2/15/2022 SeqNo: 3023048 Units: mg/Kg

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

 Gasoline Range Organics (GRO)
 26
 5.0
 25.00
 0
 103
 78.6
 131

 Surr: BFB
 1100
 1000
 110
 70
 130

Sample ID: mb-65538 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: **65538** RunNo: **85851**

Prep Date: 2/14/2022 Analysis Date: 2/15/2022 SeqNo: 3023049 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 930 1000 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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- 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#: **2202641**

23-Feb-22

Client: Vertex Resources Services, Inc.

Project: Mesa Verde 6 Fed 5

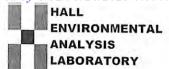
Sample ID: Ics-65538	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	n ID: 65	538	RunNo: 85851						
Prep Date: 2/14/2022	Analysis D	Date: 2/	15/2022	SeqNo: 3023101			Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.1	80	120			
Toluene	0.93	0.050	1.000	0	93.5	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.4	80	120			
Surr: 4-Bromofluorobenzene	0.84		1.000		83.9	70	130			

Sample ID: mb-65538	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volatiles				
Client ID: PBS	Batcl	n ID: 65	538	F	RunNo: 8	5851					
Prep Date: 2/14/2022	Analysis D	oate: 2/	15/2022	S	SeqNo: 3	023102	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: 4-Bromofluorobenzene	0.80		1.000		80.1	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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- 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: clients.hallenvironmental.com

Sample Log-In Check List

	Vertex Resources Services, Inc.	Work Order Nur	nber: 220	2641			RcptNo:	1
Received By:	Isaiah Ortiz	2/12/2022 8:55:00	AM		T.	OK		
Completed By:	Isaiah Ortiz	2/12/2022 10:06:2	8 AM		7	OL		
Reviewed By:	m 02/12/2022					35.45		
Chain of Cust	<u>ody</u>							
1. Is Chain of Cu	stody complete?		Yes	~	No [☐ Not F	Present	
2. How was the s	ample delivered?		Cou	rier				
Log In								
	t made to cool the samp	oles?	Yes	V	No [NA 🗆	
4. Were all sample	es received at a tempera	ature of >0° C to 6.0°C	Yes	V	No [1	NA 🗆	
							101	
5. Sample(s) in pr	roper container(s)?		Yes	V	No L			
6. Sufficient samp	le volume for indicated t	est(s)?	Yes	~	No [
	xcept VOA and ONG) pr		Yes	~	No [
	ve added to bottles?		Yes		No 🔽	2	NA 🗆	
9. Received at lea	st 1 vial with headspace	<1/4" for AQ VOA?	Yes		No []	NA 🗸	70
10. Were any samp	ole containers received b	oroken?	Yes		No S			
	c match bottle labels?	a.	Yes	V	No [# of pres bottles of for pH:	checked	22/21/2
	cies on chain of custody rrectly identified on Chai		Yes	V	No [1 Ac	(<2 or : djusted?	>12 unless noted)
	analyses were requested	and the second second	Yes	V	No []		
14. Were all holding	times able to be met?		Yes	V	No [Ch	ecked by:	
Special Handlir	ng (if applicable)							
	fied of all discrepancies	with this order?	Yes		No [NA 🔽	
Person N	otified:	Date				_		
By Whom	ri .	Via:	☐ eM	ail 🔲	Phone F	ax In Per	rson	
Regardin	The state of the s							
Client Ins	tructions:							
16. Additional rem	arks:							
17. <u>Cooler Inform</u> Cooler No 1	ation Temp °C Condition 3.1 Good	Seal Intact Seal No Not Present	Seal D	ate	Signed By			
	3.2 Good	Not Present						

Client:	lall	١٥ ام	t: Ver hex	מכסומ	Z Standard	Rus	5-147		T 4	HALL	FIN	IROI	HALL ENVIRONMENTAL ANALYSIS LABORATOR	7 2
					ā		[e] s			www.ha	lenviron	www.hallenvironmental.com	E	
Jailing	Mailing Address:	S:			Nesa	8		490	4901 Hawkins NE	ns NE	Albugi	Albuquerque, NM 87109	A 87109	
					Project #:	11000	. 20		Tel. 505-345-3975	5-3975	Fax	Fax 505-345-4107	4107	
Phone #:	#:				216	218-07012				٩	nalysis	Analysis Request		
mail o	email or Fax#:				Project Manager		4			-	₽ O	(10		
MA/QC	QA/QC Package:				82	2	Schaler		s,8	SV	S '*	ıəsc		
□ Standard	idard		☐ Level 4 (Full Validation)	l Validation)					ЬС	VISC	ОЧ	lA∖tr		
ccredi	Accreditation:	□ Az Cc	☐ Az Compliance		Sampler:	HW				3270	, ² O	ıəse		
□ NELAC	AC	□ Other			On Ice:	R Yes	oN □				N '			
EDD	EDD (Type)				# of Coolers:	1	0+,1		_			OΛ.		
					Cooler Temp(including CF):	(Including CF): 3.7	٠.	TM				imə		
Date	Time	Matrix	Sample Name	Э	Container Type and #	Preservative Type	7 2 6 2 6 4 (BTEX)	8081 Pe M) 803	PAHs b	85e0 (V	S) 0728 DO lstoT		
7-6-7	0060	Se, 1	BH22-07	0.5'	6/ass Jar	JOI	100	1.)	_					
	0110	-	BH22-03	0.5'			200							
	0530		BH22-06	0,5			003		3					3
	0240		BH22-09	0,5'			400							
	050		BH22-10	0,5'			2005							
	0011		BH22-11	0,5'			900				_			
	1130		13H22-11	1.0.			100							
	1200		BH22-12	0,5'			8 Q P							
	1230		BH 22-12	1,0			600							
)	1300	//	BH22-13	0.5.	1/1	4	010	1111						
>	1330	>	BH11-13	1.0'	>	>	(10)	>						
Date:	Time:	Relinquished by:	ed by:		Received by:	Via:		Remarks:	70	٠.	Branden	Sch	Schafer	
Date:	Time:	Relinquished by:	ed by:		Received by:	Via:	Date Time							
17	1915	600	\(\frac{1}{2}\)		(1 12. 000	_						



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

November 08, 2022

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (505) 350-1336

FAX:

RE: Mesa Verde 6 Federal 5 OrderNo.: 2210E19

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 42 sample(s) on 10/28/2022 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: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-01 1.5'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 8:30:00 AM

 Lab ID:
 2210E19-001
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	11/2/2022 7:20:24 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/2/2022 7:20:24 PM
Surr: DNOP	112	21-129	%Rec	1	11/2/2022 7:20:24 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/1/2022 12:55:32 PM
Surr: BFB	99.0	37.7-212	%Rec	1	11/1/2022 12:55:32 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	11/1/2022 12:55:32 PM
Toluene	ND	0.049	mg/Kg	1	11/1/2022 12:55:32 PM
Ethylbenzene	ND	0.049	mg/Kg	1	11/1/2022 12:55:32 PM
Xylenes, Total	ND	0.097	mg/Kg	1	11/1/2022 12:55:32 PM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	11/1/2022 12:55:32 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	59	mg/Kg	20	11/2/2022 9:17:52 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Not in Range Page 1 of 53

Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-02 1.5'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 8:35:00 AM

 Lab ID:
 2210E19-002
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/1/2022 2:40:44 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/1/2022 2:40:44 PM
Surr: DNOP	107	21-129	%Rec	1	11/1/2022 2:40:44 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/1/2022 1:18:54 PM
Surr: BFB	92.7	37.7-212	%Rec	1	11/1/2022 1:18:54 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	11/1/2022 1:18:54 PM
Toluene	ND	0.049	mg/Kg	1	11/1/2022 1:18:54 PM
Ethylbenzene	ND	0.049	mg/Kg	1	11/1/2022 1:18:54 PM
Xylenes, Total	ND	0.098	mg/Kg	1	11/1/2022 1:18:54 PM
Surr: 4-Bromofluorobenzene	99.2	70-130	%Rec	1	11/1/2022 1:18:54 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	11/2/2022 9:30:16 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 53

Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-03 1.5'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 8:40:00 AM

 Lab ID:
 2210E19-003
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	28	14	mg/Kg	1	11/1/2022 3:12:58 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/1/2022 3:12:58 PM
Surr: DNOP	104	21-129	%Rec	1	11/1/2022 3:12:58 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	11/1/2022 2:29:10 PM
Surr: BFB	91.7	37.7-212	%Rec	1	11/1/2022 2:29:10 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	11/1/2022 2:29:10 PM
Toluene	ND	0.046	mg/Kg	1	11/1/2022 2:29:10 PM
Ethylbenzene	ND	0.046	mg/Kg	1	11/1/2022 2:29:10 PM
Xylenes, Total	ND	0.093	mg/Kg	1	11/1/2022 2:29:10 PM
Surr: 4-Bromofluorobenzene	95.8	70-130	%Rec	1	11/1/2022 2:29:10 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	160	60	mg/Kg	20	11/2/2022 9:42:41 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-04 1.5'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 8:45:00 AM

 Lab ID:
 2210E19-004
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	20	14	mg/Kg	1	11/1/2022 3:23:46 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/1/2022 3:23:46 PM
Surr: DNOP	127	21-129	%Rec	1	11/1/2022 3:23:46 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/1/2022 2:52:44 PM
Surr: BFB	92.1	37.7-212	%Rec	1	11/1/2022 2:52:44 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	11/1/2022 2:52:44 PM
Toluene	ND	0.049	mg/Kg	1	11/1/2022 2:52:44 PM
Ethylbenzene	ND	0.049	mg/Kg	1	11/1/2022 2:52:44 PM
Xylenes, Total	ND	0.097	mg/Kg	1	11/1/2022 2:52:44 PM
Surr: 4-Bromofluorobenzene	98.1	70-130	%Rec	1	11/1/2022 2:52:44 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	240	60	mg/Kg	20	11/2/2022 10:19:56 PM
Chloride	240	00	mg/rtg	20	11/2/2022 10.13.

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

pH Not In Range
ng Limit Page 4 of 53

Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-05 1.5'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 8:50:00 AM

 Lab ID:
 2210E19-005
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	11/1/2022 3:34:55 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/1/2022 3:34:55 PM
Surr: DNOP	109	21-129	%Rec	1	11/1/2022 3:34:55 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/1/2022 3:16:13 PM
Surr: BFB	90.9	37.7-212	%Rec	1	11/1/2022 3:16:13 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	11/1/2022 3:16:13 PM
Toluene	ND	0.049	mg/Kg	1	11/1/2022 3:16:13 PM
Ethylbenzene	ND	0.049	mg/Kg	1	11/1/2022 3:16:13 PM
Xylenes, Total	ND	0.098	mg/Kg	1	11/1/2022 3:16:13 PM
Surr: 4-Bromofluorobenzene	97.2	70-130	%Rec	1	11/1/2022 3:16:13 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	11/2/2022 10:32:20 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-06 1.5'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 8:55:00 AM

 Lab ID:
 2210E19-006
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE (ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	11/1/2022 3:45:43 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/1/2022 3:45:43 PM
Surr: DNOP	110	21-129	%Rec	1	11/1/2022 3:45:43 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/1/2022 3:39:50 PM
Surr: BFB	93.5	37.7-212	%Rec	1	11/1/2022 3:39:50 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	11/1/2022 3:39:50 PM
Toluene	ND	0.048	mg/Kg	1	11/1/2022 3:39:50 PM
Ethylbenzene	ND	0.048	mg/Kg	1	11/1/2022 3:39:50 PM
Xylenes, Total	ND	0.095	mg/Kg	1	11/1/2022 3:39:50 PM
Surr: 4-Bromofluorobenzene	99.8	70-130	%Rec	1	11/1/2022 3:39:50 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	250	60	mg/Kg	20	11/2/2022 10:44:45 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-07 1.5'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 9:00:00 AM

 Lab ID:
 2210E19-007
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OI	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/1/2022 3:56:32 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/1/2022 3:56:32 PM
Surr: DNOP	99.6	21-129	%Rec	1	11/1/2022 3:56:32 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/1/2022 4:03:29 PM
Surr: BFB	89.7	37.7-212	%Rec	1	11/1/2022 4:03:29 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	11/1/2022 4:03:29 PM
Toluene	ND	0.049	mg/Kg	1	11/1/2022 4:03:29 PM
Ethylbenzene	ND	0.049	mg/Kg	1	11/1/2022 4:03:29 PM
Xylenes, Total	ND	0.097	mg/Kg	1	11/1/2022 4:03:29 PM
Surr: 4-Bromofluorobenzene	95.7	70-130	%Rec	1	11/1/2022 4:03:29 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	100	60	mg/Kg	20	11/2/2022 10:57:10 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-08 1.5'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 9:05:00 AM

 Lab ID:
 2210E19-008
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	11/1/2022 4:07:29 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/1/2022 4:07:29 PM
Surr: DNOP	105	21-129	%Rec	1	11/1/2022 4:07:29 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/1/2022 4:27:06 PM
Surr: BFB	90.7	37.7-212	%Rec	1	11/1/2022 4:27:06 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	11/1/2022 4:27:06 PM
Toluene	ND	0.047	mg/Kg	1	11/1/2022 4:27:06 PM
Ethylbenzene	ND	0.047	mg/Kg	1	11/1/2022 4:27:06 PM
Xylenes, Total	ND	0.094	mg/Kg	1	11/1/2022 4:27:06 PM
Surr: 4-Bromofluorobenzene	96.7	70-130	%Rec	1	11/1/2022 4:27:06 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	160	60	mg/Kg	20	11/2/2022 11:09:34 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-09 1.5'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 9:10:00 AM

 Lab ID:
 2210E19-009
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE (ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/1/2022 4:29:03 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/1/2022 4:29:03 PM
Surr: DNOP	96.1	21-129	%Rec	1	11/1/2022 4:29:03 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/1/2022 4:50:39 PM
Surr: BFB	83.6	37.7-212	%Rec	1	11/1/2022 4:50:39 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	11/1/2022 4:50:39 PM
Toluene	ND	0.048	mg/Kg	1	11/1/2022 4:50:39 PM
Ethylbenzene	ND	0.048	mg/Kg	1	11/1/2022 4:50:39 PM
Xylenes, Total	ND	0.095	mg/Kg	1	11/1/2022 4:50:39 PM
Surr: 4-Bromofluorobenzene	88.8	70-130	%Rec	1	11/1/2022 4:50:39 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	120	59	mg/Kg	20	11/2/2022 11:21:58 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
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-10 1.5'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 9:15:00 AM

 Lab ID:
 2210E19-010
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/1/2022 4:39:59 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/1/2022 4:39:59 PM
Surr: DNOP	103	21-129	%Rec	1	11/1/2022 4:39:59 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/1/2022 5:14:15 PM
Surr: BFB	85.2	37.7-212	%Rec	1	11/1/2022 5:14:15 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	11/1/2022 5:14:15 PM
Toluene	ND	0.047	mg/Kg	1	11/1/2022 5:14:15 PM
Ethylbenzene	ND	0.047	mg/Kg	1	11/1/2022 5:14:15 PM
Xylenes, Total	ND	0.094	mg/Kg	1	11/1/2022 5:14:15 PM
Surr: 4-Bromofluorobenzene	90.7	70-130	%Rec	1	11/1/2022 5:14:15 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	11/3/2022 9:31:27 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-11 1.5'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 9:20:00 AM

 Lab ID:
 2210E19-011
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: DGH				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	11/1/2022 4:50:54 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/1/2022 4:50:54 PM
Surr: DNOP	99.0	21-129	%Rec	1	11/1/2022 4:50:54 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/1/2022 5:37:51 PM
Surr: BFB	89.9	37.7-212	%Rec	1	11/1/2022 5:37:51 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	11/1/2022 5:37:51 PM
Toluene	ND	0.049	mg/Kg	1	11/1/2022 5:37:51 PM
Ethylbenzene	ND	0.049	mg/Kg	1	11/1/2022 5:37:51 PM
Xylenes, Total	ND	0.099	mg/Kg	1	11/1/2022 5:37:51 PM
Surr: 4-Bromofluorobenzene	95.1	70-130	%Rec	1	11/1/2022 5:37:51 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	11/3/2022 10:08:40 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-12 1.5'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 9:25:00 AM

 Lab ID:
 2210E19-012
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	Analyst: DGH				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	11/1/2022 5:01:47 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/1/2022 5:01:47 PM
Surr: DNOP	106	21-129	%Rec	1	11/1/2022 5:01:47 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/1/2022 6:01:26 PM
Surr: BFB	84.9	37.7-212	%Rec	1	11/1/2022 6:01:26 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	11/1/2022 6:01:26 PM
Toluene	ND	0.048	mg/Kg	1	11/1/2022 6:01:26 PM
Ethylbenzene	ND	0.048	mg/Kg	1	11/1/2022 6:01:26 PM
Xylenes, Total	ND	0.095	mg/Kg	1	11/1/2022 6:01:26 PM
Surr: 4-Bromofluorobenzene	91.1	70-130	%Rec	1	11/1/2022 6:01:26 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	360	60	mg/Kg	20	11/3/2022 10:45:53 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
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy **Client Sample ID:** BS22-13 3'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 9:30:00 AM

 Lab ID:
 2210E19-013
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/1/2022 5:12:40 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/1/2022 5:12:40 PM
Surr: DNOP	97.7	21-129	%Rec	1	11/1/2022 5:12:40 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/1/2022 11:55:00 AM
Surr: BFB	113	37.7-212	%Rec	1	11/1/2022 11:55:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	11/1/2022 11:55:00 AM
Toluene	ND	0.048	mg/Kg	1	11/1/2022 11:55:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	11/1/2022 11:55:00 AM
Xylenes, Total	ND	0.096	mg/Kg	1	11/1/2022 11:55:00 AM
Surr: 4-Bromofluorobenzene	125	70-130	%Rec	1	11/1/2022 11:55:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	59	mg/Kg	20	11/3/2022 10:58:17 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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-14 3'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 9:35:00 AM

 Lab ID:
 2210E19-014
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O		Analyst: DGH			
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	11/1/2022 5:23:32 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/1/2022 5:23:32 PM
Surr: DNOP	96.7	21-129	%Rec	1	11/1/2022 5:23:32 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/1/2022 12:54:00 PM
Surr: BFB	102	37.7-212	%Rec	1	11/1/2022 12:54:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	11/1/2022 12:54:00 PM
Toluene	ND	0.047	mg/Kg	1	11/1/2022 12:54:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	11/1/2022 12:54:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	11/1/2022 12:54:00 PM
Surr: 4-Bromofluorobenzene	130	70-130	%Rec	1	11/1/2022 12:54:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	11/3/2022 11:35:30 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy **Client Sample ID:** BS22-15 3'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 9:40:00 AM

 Lab ID:
 2210E19-015
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O		Analyst: DGH			
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/1/2022 5:34:22 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/1/2022 5:34:22 PM
Surr: DNOP	96.4	21-129	%Rec	1	11/1/2022 5:34:22 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	11/1/2022 1:53:00 PM
Surr: BFB	95.5	37.7-212	%Rec	1	11/1/2022 1:53:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	11/1/2022 1:53:00 PM
Toluene	ND	0.046	mg/Kg	1	11/1/2022 1:53:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	11/1/2022 1:53:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	11/1/2022 1:53:00 PM
Surr: 4-Bromofluorobenzene	126	70-130	%Rec	1	11/1/2022 1:53:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	11/3/2022 11:47:53 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-16 2.5'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 9:45:00 AM

 Lab ID:
 2210E19-016
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	Analyst: DGH				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	11/1/2022 5:45:13 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/1/2022 5:45:13 PM
Surr: DNOP	99.4	21-129	%Rec	1	11/1/2022 5:45:13 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/1/2022 2:13:00 PM
Surr: BFB	98.9	37.7-212	%Rec	1	11/1/2022 2:13:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	11/1/2022 2:13:00 PM
Toluene	ND	0.047	mg/Kg	1	11/1/2022 2:13:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	11/1/2022 2:13:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	11/1/2022 2:13:00 PM
Surr: 4-Bromofluorobenzene	125	70-130	%Rec	1	11/1/2022 2:13:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	11/3/2022 12:00:18 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-17 2.5'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 9:50:00 AM

 Lab ID:
 2210E19-017
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/1/2022 5:56:04 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/1/2022 5:56:04 PM
Surr: DNOP	108	21-129	%Rec	1	11/1/2022 5:56:04 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/1/2022 2:32:00 PM
Surr: BFB	103	37.7-212	%Rec	1	11/1/2022 2:32:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	11/1/2022 2:32:00 PM
Toluene	ND	0.049	mg/Kg	1	11/1/2022 2:32:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	11/1/2022 2:32:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	11/1/2022 2:32:00 PM
Surr: 4-Bromofluorobenzene	126	70-130	%Rec	1	11/1/2022 2:32:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	11/3/2022 12:12:42 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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-18 2.5'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 9:55:00 AM

 Lab ID:
 2210E19-018
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/1/2022 6:06:53 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/1/2022 6:06:53 PM
Surr: DNOP	98.8	21-129	%Rec	1	11/1/2022 6:06:53 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/1/2022 2:52:00 PM
Surr: BFB	94.9	37.7-212	%Rec	1	11/1/2022 2:52:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	11/1/2022 2:52:00 PM
Toluene	ND	0.048	mg/Kg	1	11/1/2022 2:52:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	11/1/2022 2:52:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	11/1/2022 2:52:00 PM
Surr: 4-Bromofluorobenzene	124	70-130	%Rec	1	11/1/2022 2:52:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	150	60	mg/Kg	20	11/3/2022 12:25:06 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-19 2.5'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 10:00:00 AM

 Lab ID:
 2210E19-019
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O		Analyst: DGH			
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	11/1/2022 6:17:41 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/1/2022 6:17:41 PM
Surr: DNOP	106	21-129	%Rec	1	11/1/2022 6:17:41 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/1/2022 3:12:00 PM
Surr: BFB	99.5	37.7-212	%Rec	1	11/1/2022 3:12:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	11/1/2022 3:12:00 PM
Toluene	ND	0.047	mg/Kg	1	11/1/2022 3:12:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	11/1/2022 3:12:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	11/1/2022 3:12:00 PM
Surr: 4-Bromofluorobenzene	126	70-130	%Rec	1	11/1/2022 3:12:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	11/3/2022 12:37:30 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-20 2'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 10:05:00 AM

 Lab ID:
 2210E19-020
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/1/2022 6:28:30 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/1/2022 6:28:30 PM
Surr: DNOP	111	21-129	%Rec	1	11/1/2022 6:28:30 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/1/2022 3:32:00 PM
Surr: BFB	100	37.7-212	%Rec	1	11/1/2022 3:32:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	11/1/2022 3:32:00 PM
Toluene	ND	0.049	mg/Kg	1	11/1/2022 3:32:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	11/1/2022 3:32:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	11/1/2022 3:32:00 PM
Surr: 4-Bromofluorobenzene	129	70-130	%Rec	1	11/1/2022 3:32:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	11/3/2022 12:49:55 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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-21 2'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 10:10:00 AM

 Lab ID:
 2210E19-021
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR		Analyst: DGH			
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	11/1/2022 6:39:18 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/1/2022 6:39:18 PM
Surr: DNOP	109	21-129	%Rec	1	11/1/2022 6:39:18 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/1/2022 3:51:00 PM
Surr: BFB	97.0	37.7-212	%Rec	1	11/1/2022 3:51:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	11/1/2022 3:51:00 PM
Toluene	ND	0.049	mg/Kg	1	11/1/2022 3:51:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	11/1/2022 3:51:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	11/1/2022 3:51:00 PM
Surr: 4-Bromofluorobenzene	126	70-130	%Rec	1	11/1/2022 3:51:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	260	60	mg/Kg	20	11/3/2022 1:02:19 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-22 1'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 10:15:00 AM

 Lab ID:
 2210E19-022
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	Analyst: SB				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	11/2/2022 7:20:20 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/2/2022 7:20:20 PM
Surr: DNOP	98.8	21-129	%Rec	1	11/2/2022 7:20:20 PM
EPA METHOD 8015D: GASOLINE RANGE	<u> </u>				Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/1/2022 4:11:00 PM
Surr: BFB	99.9	37.7-212	%Rec	1	11/1/2022 4:11:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	11/1/2022 4:11:00 PM
Toluene	ND	0.048	mg/Kg	1	11/1/2022 4:11:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	11/1/2022 4:11:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	11/1/2022 4:11:00 PM
Surr: 4-Bromofluorobenzene	124	70-130	%Rec	1	11/1/2022 4:11:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	120	59	mg/Kg	20	11/3/2022 1:14:43 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-23 1'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 10:20:00 AM

 Lab ID:
 2210E19-023
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	Analyst: SB				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	11/2/2022 7:44:42 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/2/2022 7:44:42 PM
Surr: DNOP	96.7	21-129	%Rec	1	11/2/2022 7:44:42 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/1/2022 4:50:00 PM
Surr: BFB	95.7	37.7-212	%Rec	1	11/1/2022 4:50:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	11/1/2022 4:50:00 PM
Toluene	ND	0.049	mg/Kg	1	11/1/2022 4:50:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	11/1/2022 4:50:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	11/1/2022 4:50:00 PM
Surr: 4-Bromofluorobenzene	123	70-130	%Rec	1	11/1/2022 4:50:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	250	61	mg/Kg	20	11/3/2022 1:27:07 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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-24 1'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 10:25:00 AM

 Lab ID:
 2210E19-024
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR		Analyst: DGH			
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	11/3/2022 1:25:17 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/3/2022 1:25:17 AM
Surr: DNOP	119	21-129	%Rec	1	11/3/2022 1:25:17 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/1/2022 5:10:00 PM
Surr: BFB	95.8	37.7-212	%Rec	1	11/1/2022 5:10:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	11/1/2022 5:10:00 PM
Toluene	ND	0.049	mg/Kg	1	11/1/2022 5:10:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	11/1/2022 5:10:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	11/1/2022 5:10:00 PM
Surr: 4-Bromofluorobenzene	123	70-130	%Rec	1	11/1/2022 5:10:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	270	60	mg/Kg	20	11/3/2022 2:04:20 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

 $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-01 0-1.5'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 1:00:00 PM

 Lab ID:
 2210E19-025
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: DGH				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	11/3/2022 1:57:52 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/3/2022 1:57:52 AM
Surr: DNOP	95.4	21-129	%Rec	1	11/3/2022 1:57:52 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/1/2022 5:29:00 PM
Surr: BFB	97.4	37.7-212	%Rec	1	11/1/2022 5:29:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	11/1/2022 5:29:00 PM
Toluene	ND	0.047	mg/Kg	1	11/1/2022 5:29:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	11/1/2022 5:29:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	11/1/2022 5:29:00 PM
Surr: 4-Bromofluorobenzene	125	70-130	%Rec	1	11/1/2022 5:29:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	130	61	mg/Kg	20	11/3/2022 2:16:44 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-02 0-1.5'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 1:05:00 PM

 Lab ID:
 2210E19-026
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/3/2022 2:08:41 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/3/2022 2:08:41 AM
Surr: DNOP	95.0	21-129	%Rec	1	11/3/2022 2:08:41 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/1/2022 5:49:00 PM
Surr: BFB	98.1	37.7-212	%Rec	1	11/1/2022 5:49:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	11/1/2022 5:49:00 PM
Toluene	ND	0.049	mg/Kg	1	11/1/2022 5:49:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	11/1/2022 5:49:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	11/1/2022 5:49:00 PM
Surr: 4-Bromofluorobenzene	127	70-130	%Rec	1	11/1/2022 5:49:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	11/3/2022 2:29:09 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-03 0-1.5'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 1:10:00 PM

 Lab ID:
 2210E19-027
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/3/2022 2:19:29 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/3/2022 2:19:29 AM
Surr: DNOP	98.1	21-129	%Rec	1	11/3/2022 2:19:29 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/1/2022 6:09:00 PM
Surr: BFB	101	37.7-212	%Rec	1	11/1/2022 6:09:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	11/1/2022 6:09:00 PM
Toluene	ND	0.049	mg/Kg	1	11/1/2022 6:09:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	11/1/2022 6:09:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	11/1/2022 6:09:00 PM
Surr: 4-Bromofluorobenzene	128	70-130	%Rec	1	11/1/2022 6:09:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	75	60	mg/Kg	20	11/3/2022 2:41:34 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-04 0-3'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 1:15:00 PM

 Lab ID:
 2210E19-028
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/3/2022 2:30:16 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/3/2022 2:30:16 AM
Surr: DNOP	94.1	21-129	%Rec	1	11/3/2022 2:30:16 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/1/2022 6:28:00 PM
Surr: BFB	97.6	37.7-212	%Rec	1	11/1/2022 6:28:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	11/1/2022 6:28:00 PM
Toluene	ND	0.047	mg/Kg	1	11/1/2022 6:28:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	11/1/2022 6:28:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	11/1/2022 6:28:00 PM
Surr: 4-Bromofluorobenzene	129	70-130	%Rec	1	11/1/2022 6:28:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	77	60	mg/Kg	20	11/3/2022 2:53:58 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-05 0-2.5'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 1:20:00 PM

 Lab ID:
 2210E19-029
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/3/2022 2:41:01 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/3/2022 2:41:01 AM
Surr: DNOP	101	21-129	%Rec	1	11/3/2022 2:41:01 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/1/2022 6:48:00 PM
Surr: BFB	104	37.7-212	%Rec	1	11/1/2022 6:48:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	11/1/2022 6:48:00 PM
Toluene	ND	0.047	mg/Kg	1	11/1/2022 6:48:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	11/1/2022 6:48:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	11/1/2022 6:48:00 PM
Surr: 4-Bromofluorobenzene	129	70-130	%Rec	1	11/1/2022 6:48:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	78	59	mg/Kg	20	11/3/2022 3:06:23 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-06 0-2.5'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 1:25:00 PM

 Lab ID:
 2210E19-030
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	11/3/2022 2:51:45 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/3/2022 2:51:45 AM
Surr: DNOP	87.5	21-129	%Rec	1	11/3/2022 2:51:45 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	11/1/2022 7:08:00 PM
Surr: BFB	97.8	37.7-212	%Rec	1	11/1/2022 7:08:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	11/1/2022 7:08:00 PM
Toluene	ND	0.046	mg/Kg	1	11/1/2022 7:08:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	11/1/2022 7:08:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	11/1/2022 7:08:00 PM
Surr: 4-Bromofluorobenzene	126	70-130	%Rec	1	11/1/2022 7:08:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	170	60	mg/Kg	20	11/3/2022 11:29:08 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Not in Range imit Page 30 of 53

Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-07 0-2'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 1:30:00 PM

 Lab ID:
 2210E19-031
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/3/2022 3:02:28 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/3/2022 3:02:28 AM
Surr: DNOP	91.7	21-129	%Rec	1	11/3/2022 3:02:28 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/1/2022 7:27:00 PM
Surr: BFB	93.7	37.7-212	%Rec	1	11/1/2022 7:27:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	11/1/2022 7:27:00 PM
Toluene	ND	0.049	mg/Kg	1	11/1/2022 7:27:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	11/1/2022 7:27:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	11/1/2022 7:27:00 PM
Surr: 4-Bromofluorobenzene	126	70-130	%Rec	1	11/1/2022 7:27:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	71	60	mg/Kg	20	11/3/2022 12:06:10 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-08 0-1'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 1:35:00 PM

 Lab ID:
 2210E19-032
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/3/2022 3:13:10 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/3/2022 3:13:10 AM
Surr: DNOP	94.9	21-129	%Rec	1	11/3/2022 3:13:10 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/1/2022 7:47:00 PM
Surr: BFB	95.7	37.7-212	%Rec	1	11/1/2022 7:47:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	11/1/2022 7:47:00 PM
Toluene	ND	0.047	mg/Kg	1	11/1/2022 7:47:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	11/1/2022 7:47:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	11/1/2022 7:47:00 PM
Surr: 4-Bromofluorobenzene	124	70-130	%Rec	1	11/1/2022 7:47:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	71	60	mg/Kg	20	11/3/2022 1:07:54 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-09 0-1'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 1:40:00 PM

 Lab ID:
 2210E19-033
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: SB				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	11/2/2022 11:56:46 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/2/2022 11:56:46 AM
Surr: DNOP	83.0	21-129	%Rec	1	11/2/2022 11:56:46 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/1/2022 9:44:00 PM
Surr: BFB	101	37.7-212	%Rec	1	11/1/2022 9:44:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	11/1/2022 9:44:00 PM
Toluene	ND	0.049	mg/Kg	1	11/1/2022 9:44:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	11/1/2022 9:44:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	11/1/2022 9:44:00 PM
Surr: 4-Bromofluorobenzene	128	70-130	%Rec	1	11/1/2022 9:44:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	110	61	mg/Kg	20	11/3/2022 1:20:14 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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-10 0-1'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 1:45:00 PM

 Lab ID:
 2210E19-034
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	Analyst: SB				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/2/2022 1:07:51 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/2/2022 1:07:51 PM
Surr: DNOP	86.5	21-129	%Rec	1	11/2/2022 1:07:51 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/1/2022 10:44:00 PM
Surr: BFB	98.8	37.7-212	%Rec	1	11/1/2022 10:44:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	11/1/2022 10:44:00 PM
Toluene	ND	0.047	mg/Kg	1	11/1/2022 10:44:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	11/1/2022 10:44:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	11/1/2022 10:44:00 PM
Surr: 4-Bromofluorobenzene	129	70-130	%Rec	1	11/1/2022 10:44:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	82	60	mg/Kg	20	11/3/2022 1:32:35 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-11 0-2'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 1:50:00 PM

 Lab ID:
 2210E19-035
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: SB				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/2/2022 1:31:30 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/2/2022 1:31:30 PM
Surr: DNOP	78.1	21-129	%Rec	1	11/2/2022 1:31:30 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/1/2022 11:42:00 PM
Surr: BFB	99.2	37.7-212	%Rec	1	11/1/2022 11:42:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	11/1/2022 11:42:00 PM
Toluene	ND	0.047	mg/Kg	1	11/1/2022 11:42:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	11/1/2022 11:42:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	11/1/2022 11:42:00 PM
Surr: 4-Bromofluorobenzene	126	70-130	%Rec	1	11/1/2022 11:42:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	180	60	mg/Kg	20	11/3/2022 1:44:55 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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-12 0-2.5'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 1:55:00 PM

 Lab ID:
 2210E19-036
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	11/2/2022 1:55:06 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/2/2022 1:55:06 PM
Surr: DNOP	83.2	21-129	%Rec	1	11/2/2022 1:55:06 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/2/2022 12:02:00 AM
Surr: BFB	95.5	37.7-212	%Rec	1	11/2/2022 12:02:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	11/2/2022 12:02:00 AM
Toluene	ND	0.048	mg/Kg	1	11/2/2022 12:02:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	11/2/2022 12:02:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	11/2/2022 12:02:00 AM
Surr: 4-Bromofluorobenzene	125	70-130	%Rec	1	11/2/2022 12:02:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	72	60	mg/Kg	20	11/3/2022 1:57:16 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-13 0-3'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 2:00:00 PM

 Lab ID:
 2210E19-037
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: SB				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	11/2/2022 2:18:47 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/2/2022 2:18:47 PM
Surr: DNOP	86.7	21-129	%Rec	1	11/2/2022 2:18:47 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/2/2022 12:22:00 AM
Surr: BFB	98.1	37.7-212	%Rec	1	11/2/2022 12:22:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	11/2/2022 12:22:00 AM
Toluene	ND	0.047	mg/Kg	1	11/2/2022 12:22:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	11/2/2022 12:22:00 AM
Xylenes, Total	ND	0.094	mg/Kg	1	11/2/2022 12:22:00 AM
Surr: 4-Bromofluorobenzene	128	70-130	%Rec	1	11/2/2022 12:22:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	75	61	mg/Kg	20	11/3/2022 2:09:36 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-14 0-1.5'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 2:05:00 PM

 Lab ID:
 2210E19-038
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/2/2022 2:42:25 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/2/2022 2:42:25 PM
Surr: DNOP	86.7	21-129	%Rec	1	11/2/2022 2:42:25 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/2/2022 12:41:00 AM
Surr: BFB	96.9	37.7-212	%Rec	1	11/2/2022 12:41:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	11/2/2022 12:41:00 AM
Toluene	ND	0.048	mg/Kg	1	11/2/2022 12:41:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	11/2/2022 12:41:00 AM
Xylenes, Total	ND	0.096	mg/Kg	1	11/2/2022 12:41:00 AM
Surr: 4-Bromofluorobenzene	129	70-130	%Rec	1	11/2/2022 12:41:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	140	60	mg/Kg	20	11/3/2022 2:21:58 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-15 1.5-3'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 2:10:00 PM

 Lab ID:
 2210E19-039
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	Analyst: SB					
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/2/2022 3:06:05 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/2/2022 3:06:05 PM
Surr: DNOP	85.4	21-129		%Rec	1	11/2/2022 3:06:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/2/2022 1:01:00 AM
Surr: BFB	103	37.7-212		%Rec	1	11/2/2022 1:01:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	11/2/2022 1:01:00 AM
Toluene	ND	0.047		mg/Kg	1	11/2/2022 1:01:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/2/2022 1:01:00 AM
Xylenes, Total	ND	0.093		mg/Kg	1	11/2/2022 1:01:00 AM
Surr: 4-Bromofluorobenzene	130	70-130	S	%Rec	1	11/2/2022 1:01:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/3/2022 2:34:19 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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-16 2.5-3'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 2:15:00 PM

 Lab ID:
 2210E19-040
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	11/2/2022 3:53:36 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/2/2022 3:53:36 PM
Surr: DNOP	86.3	21-129	%Rec	1	11/2/2022 3:53:36 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/2/2022 1:21:00 AM
Surr: BFB	102	37.7-212	%Rec	1	11/2/2022 1:21:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	11/2/2022 1:21:00 AM
Toluene	ND	0.048	mg/Kg	1	11/2/2022 1:21:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	11/2/2022 1:21:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	11/2/2022 1:21:00 AM
Surr: 4-Bromofluorobenzene	128	70-130	%Rec	1	11/2/2022 1:21:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	100	60	mg/Kg	20	11/3/2022 2:46:40 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-17 2-2.5'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 2:20:00 PM

 Lab ID:
 2210E19-041
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	11/2/2022 4:17:20 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/2/2022 4:17:20 PM
Surr: DNOP	89.3	21-129	%Rec	1	11/2/2022 4:17:20 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/2/2022 1:41:00 AM
Surr: BFB	102	37.7-212	%Rec	1	11/2/2022 1:41:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	11/2/2022 1:41:00 AM
Toluene	ND	0.049	mg/Kg	1	11/2/2022 1:41:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	11/2/2022 1:41:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	11/2/2022 1:41:00 AM
Surr: 4-Bromofluorobenzene	129	70-130	%Rec	1	11/2/2022 1:41:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	170	60	mg/Kg	20	11/3/2022 2:59:01 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-18 1-2.5'

 Project:
 Mesa Verde 6 Federal 5
 Collection Date: 10/26/2022 2:25:00 PM

 Lab ID:
 2210E19-042
 Matrix: SOIL
 Received Date: 10/28/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	Analyst: SB				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/2/2022 4:41:00 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/2/2022 4:41:00 PM
Surr: DNOP	84.3	21-129	%Rec	1	11/2/2022 4:41:00 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/2/2022 2:00:00 AM
Surr: BFB	101	37.7-212	%Rec	1	11/2/2022 2:00:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	11/2/2022 2:00:00 AM
Toluene	ND	0.049	mg/Kg	1	11/2/2022 2:00:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	11/2/2022 2:00:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	11/2/2022 2:00:00 AM
Surr: 4-Bromofluorobenzene	128	70-130	%Rec	1	11/2/2022 2:00:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	74	60	mg/Kg	20	11/3/2022 3:36:01 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- 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#: **2210E19** *08-Nov-22*

Client: Devon Energy

Project: Mesa Verde 6 Federal 5

Sample ID: MB-71253 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 71253 RunNo: 92306

Prep Date: 11/2/2022 Analysis Date: 11/2/2022 SeqNo: 3316177 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-71253 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 71253 RunNo: 92306

Prep Date: 11/2/2022 Analysis Date: 11/2/2022 SeqNo: 3316178 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.6 90 110

Sample ID: MB-71274 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 71274 RunNo: 92304

Prep Date: 11/3/2022 Analysis Date: 11/3/2022 SeqNo: 3316872 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-71274 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 71274 RunNo: 92304

Prep Date: 11/3/2022 Analysis Date: 11/3/2022 SeqNo: 3316873 Units: mg/Kg

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

Chloride 15 1.5 15.00 0 97.5 90 110

Sample ID: MB-71262 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 71262 RunNo: 92326

Prep Date: 11/3/2022 Analysis Date: 11/3/2022 SeqNo: 3317584 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-71262 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 71262 RunNo: 92326

Prep Date: 11/3/2022 Analysis Date: 11/3/2022 SeqNo: 3317585 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 96.3 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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

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#: **2210E19** *08-Nov-22*

Client: Devon Energy

Project: Mesa Verde 6 Federal 5

Sample ID: 2210E19-002AMS	SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS22-02 1.5'	Batch ID: 7	1183	F	RunNo: 92	2232				
Prep Date: 10/31/2022	Analysis Date: 1	1/1/2022	;	SeqNo: 33	313737	Units: mg/K	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50 14	46.43	0	107	36.1	154			
Surr: DNOP	5.6	4.643		120	21	129			
Sample ID: 2210E19-002AMS	SampType: N	ISD	Tes	tCode: EP	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: BS22-02 1.5'	Batch ID: 7	1183	F	RunNo: 92	2232				
Prep Date: 10/31/2022	Analysis Date: 1	1/1/2022	;	SeqNo: 33	313738	Units: mg/K	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49 14	48.22	0	101	36.1	154	1.91	33.9	
Surr: DNOP	5.3	4.822		111	21	129	0	0	
Sample ID: LCS-71183	SampType: L	cs	Tes	tCode: EP	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch ID: 7	1183	F	RunNo: 92	2232				
Prep Date: 10/31/2022	Analysis Date: 1	1/1/2022		SeqNo: 33	313758	Units: mg/K	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49 15	50.00	0	97.3	64.4	127			
Surr: DNOP	5.5	5.000		111	21	129			
Sample ID: MB-71183	SampType: N	IBLK	Tes	tCode: EP	PA Method	8015M/D: Die	sel Range	Organics	·
Client ID: PBS	Batch ID: 7	1183	F	RunNo: 92	2232				
Prop Data: 10/21/2022	Analysis Date:	14/4/2022		SoaNo: 22	242750	Unite: ma/K	· ~		

								•	•	
Client ID: PBS	Batch	1D: 711	183	F	RunNo: 92	2232				
Prep Date: 10/31/2022	Analysis D	ate: 11	/1/2022	5	SeqNo: 33	313759	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		100	21	129			

Sample ID: LCS-71197	SampT	ype: LC	S	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch	n ID: 71 ′	197	F	RunNo: 9	2257				
Prep Date: 11/1/2022	Analysis D)ate: 11	/2/2022	5	SeqNo: 3:	314009	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	15	50.00	0	76.6	64.4	127			
Surr: DNOP	3.8		5.000		75.8	21	129			

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2210E19 08-Nov-22

WO#:

Client: Devon Energy

Project: Mesa Verde 6 Federal 5

Sample ID: MB-71197	SampType: M	BLK	Tes	tCode: EP	A Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch ID: 71	197	R	tunNo: 92	257				
Prep Date: 11/1/2022	Analysis Date: 1	1/2/2022	S	SeqNo: 33	14010	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 15								
Motor Oil Range Organics (MRO)	ND 50								
Surr: DNOP	8.3	10.00		83.0	21	129			
Sample ID: LCS-71182	SampType: L (s	Tes	tCode: EP	A Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch ID: 71	182	R	tunNo: 92	253				
Prep Date: 10/31/2022	Analysis Date: 1	1/2/2022	8	SeqNo: 33	14305	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58 15	50.00	0	116	64.4	127			
Surr: DNOP	6.4	5.000		128	21	129			
Sample ID: MB-71182	SampType: M	BLK	Tes	tCode: EP	A Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch ID: 71	182	R	unNo: 92	253				
Prep Date: 10/31/2022	Analysis Date: 1	1/2/2022	S	SeqNo: 33	14306	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 15								
Motor Oil Range Organics (MRO)	ND 50								
Surr: DNOP	10	10.00		102	21	129			
Sample ID: MB-71206	SampType: M	BLK	Tes	tCode: EP	A Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch ID: 71	206	R	tunNo: 92	293				
Prep Date: 11/1/2022	Analysis Date: 1	1/2/2022	S	SeqNo: 33	15550	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 15								
Motor Oil Range Organics (MRO)	ND 50								
Surr: DNOP	9.9	10.00		99.2	21	129			
Sample ID: MB-71206	SampType: M	BLK	Tes	tCode: EP	A Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch ID: 71	206	R	tunNo: 92	257				
Prep Date: 11/1/2022	Analysis Date: 1	1/2/2022	S	SeqNo: 33	15611	Units: mg/K	g		
Analyte	Result PQL	SDK value	SPK Ref Val	%PEC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

Surr: DNOP

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Diesel Range Organics (DRO)

Motor Oil Range Organics (MRO)

- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.

ND

ND

9.3

15

10.00

Analyte detected in the associated Method Blank

93.4

21

129

- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210E19**

08-Nov-22

Client: Devon Energy

Project: Mesa Verde 6 Federal 5

Sample ID: MB-71206	SampT	уре: МЕ	RI K	Tes	tCode: FF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS		ID: 71 2			RunNo: 92				o. go	
Prep Date: 11/1/2022	Analysis D				SeqNo: 3		Units: mg/K	g		
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15	Of It value	Of ICICOI Val	701120	LOWLITH	riigiiLiiiit	701111111111111111111111111111111111111	THE DENTIL	Quai
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.1		10.00		80.7	21	129			
Sample ID: MB-71203	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	ID: 71 2	203	F	RunNo: 92	2296				
Prep Date: 11/1/2022	Analysis D	ate: 11	/2/2022	S	SeqNo: 3	315619	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.9		10.00		79.0	21	129			
Sample ID: LCS-71203	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Sample ID: LCS-71203 Client ID: LCSS	·	ype: LC			tCode: EF RunNo: 9 2		8015M/D: Die	sel Range	Organics	
'	·	iD: 71 2	203	F		2296	8015M/D: Die	J	Organics	
Client ID: LCSS	Batch	iD: 71 2	203 /2/2022	F	RunNo: 92	2296		J	Organics RPDLimit	Qual
Client ID: LCSS Prep Date: 11/1/2022 Analyte Diesel Range Organics (DRO)	Batch Analysis D	n ID: 71 2 Pate: 11	203 /2/2022 SPK value 50.00	F	RunNo: 92 SeqNo: 3: %REC 88.1	2296 315620 LowLimit 64.4	Units: mg/K HighLimit	g	Ü	Qual
Client ID: LCSS Prep Date: 11/1/2022 Analyte	Batch Analysis D Result	n ID: 71 2 Pate: 11	203 /2/2022 SPK value	F S SPK Ref Val	RunNo: 92 SeqNo: 33 %REC	2296 315620 LowLimit	Units: mg/K	g	Ü	Qual
Client ID: LCSS Prep Date: 11/1/2022 Analyte Diesel Range Organics (DRO)	Batch Analysis D Result 44 3.7	n ID: 71 2 Pate: 11	203 /2/2022 SPK value 50.00 5.000	SPK Ref Val	RunNo: 92 SeqNo: 33 %REC 88.1 74.9	2296 315620 LowLimit 64.4 21	Units: mg/K HighLimit	g %RPD	RPDLimit	Qual
Client ID: LCSS Prep Date: 11/1/2022 Analyte Diesel Range Organics (DRO) Surr: DNOP	Batch Analysis D Result 44 3.7 SampT	PQL 15	203 /2/2022 SPK value 50.00 5.000	SPK Ref Val 0	RunNo: 92 SeqNo: 33 %REC 88.1 74.9	2296 315620 LowLimit 64.4 21	Units: mg/K HighLimit 127 129	g %RPD	RPDLimit	Qual
Client ID: LCSS Prep Date: 11/1/2022 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2210E19-033AMS	Batch Analysis D Result 44 3.7 SampT	PQL 15 Type: MS	203 /2/2022 SPK value 50.00 5.000	SPK Ref Val 0	RunNo: 93 SeqNo: 33 %REC 88.1 74.9 stCode: EF	2296 315620 LowLimit 64.4 21 PA Method 2296	Units: mg/K HighLimit 127 129	g %RPD sel Range	RPDLimit	Qual
Client ID: LCSS Prep Date: 11/1/2022 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2210E19-033AMS Client ID: WS22-09 0-1' Prep Date: 11/1/2022 Analyte	Batch Analysis D Result 44 3.7 SampT Batch	PQL 15 Type: MS	203 /2/2022 SPK value 50.00 5.000	SPK Ref Val 0	RunNo: 92 SeqNo: 3: %REC 88.1 74.9 stCode: EF	2296 315620 LowLimit 64.4 21 PA Method 2296	Units: mg/K HighLimit 127 129 8015M/D: Die	g %RPD sel Range	RPDLimit	Qual
Client ID: LCSS Prep Date: 11/1/2022 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2210E19-033AMS Client ID: WS22-09 0-1' Prep Date: 11/1/2022	Batch Analysis D Result 44 3.7 SampT Batch Analysis D	PQL 15 Type: MS Type: MS Type: MS	203 /2/2022 SPK value 50.00 5.000	SPK Ref Val 0 Tes	RunNo: 92 SeqNo: 3: %REC 88.1 74.9 stCode: EF RunNo: 92 SeqNo: 3:	2296 315620 LowLimit 64.4 21 PA Method 2296 315622	Units: mg/K HighLimit 127 129 8015M/D: Die Units: mg/K	g %RPD sel Range	RPDLimit Organics	
Client ID: LCSS Prep Date: 11/1/2022 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2210E19-033AMS Client ID: WS22-09 0-1' Prep Date: 11/1/2022 Analyte	Batch Analysis D Result 44 3.7 SampT Batch Analysis D Result	PQL 15 15 10 ID: 712 15 15 10 ID: 712 11 ID: 712 11 PQL	203 /2/2022 SPK value 50.00 5.000 6 203 /2/2022 SPK value	SPK Ref Val 0 Tes SPK Ref Val	RunNo: 92 SeqNo: 3: %REC 88.1 74.9 stCode: EF RunNo: 92 SeqNo: 3: %REC	2296 B15620 LowLimit 64.4 21 PA Method 2296 B15622 LowLimit	Units: mg/K HighLimit 127 129 8015M/D: Die Units: mg/K HighLimit	g %RPD sel Range	RPDLimit Organics	
Client ID: LCSS Prep Date: 11/1/2022 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2210E19-033AMS Client ID: WS22-09 0-1' Prep Date: 11/1/2022 Analyte Diesel Range Organics (DRO)	Batch Analysis D Result 44 3.7 SampT Batch Analysis D Result 43 3.7	PQL 15 15 10 ID: 712 15 15 10 ID: 712 11 ID: 712 11 PQL	203 /2/2022 SPK value 50.00 5.000 6 203 /2/2022 SPK value 46.55 4.655	SPK Ref Val 0 Tes SPK Ref Val 0	RunNo: 92 SeqNo: 33 **REC 88.1 74.9 StCode: EF RunNo: 92 SeqNo: 33 **REC 91.6 79.4	2296 315620 LowLimit 64.4 21 PA Method 2296 315622 LowLimit 36.1 21	Units: mg/K HighLimit 127 129 8015M/D: Die Units: mg/K HighLimit 154	g %RPD sel Range	RPDLimit Organics RPDLimit	

Qualifiers:

Prep Date:

Surr: DNOP

Diesel Range Organics (DRO)

Analyte

Value exceeds Maximum Contaminant Level.

11/1/2022

- 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 standard limits. If undiluted results may be estimated.

Analysis Date: 11/2/2022

15

Result

44

3.8

B Analyte detected in the associated Method Blank

SeqNo: 3315623

LowLimit

36.1

21

%REC

90.2

78.4

Units: mg/Kg

154

129

%RPD

2.45

0

HighLimit

- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

0

SPK value SPK Ref Val

48.40

4.840

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RPDLimit

33.9

0

Qual

Hall Environmental Analysis Laboratory, Inc.

2210E19 08-Nov-22

WO#:

Client: Devon Energy

Project: Mesa Verde 6 Federal 5

Sample ID: 2210E19-024AMS	SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: BS22-24 1'	Batch	ID: 712	206	F	RunNo: 92	2253				
Prep Date: 11/1/2022	Analysis D	ysis Date: 11/3/2022 SeqNo: 3315734 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	15	48.88	0	93.2	36.1	154			
Surr: DNOP	5.2		4.888		106	21	129			
Sample ID: 2210E19-024AMSD	SampT	ype: MS	D	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: BS22-24 1'	Batch	ID: 712	06 RunNo: 92253							

Client ID: BS22-24 1'	Batch	ID: 712	206	F	RunNo: 92	2253				
Prep Date: 11/1/2022	Analysis D	ate: 11	/3/2022	5	SeqNo: 33	315735	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	14	48.31	0	97.1	36.1	154	2.91	33.9	
Surr: DNOP	5.0		4.831		104	21	129	0	0	

Sample ID: LCS-71206	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organic						Organics			
Client ID: LCSS	Batch	ID: 712	206	F	RunNo: 92	2253				
Prep Date: 11/1/2022	Analysis D	ate: 11	/3/2022	9	SeqNo: 33	315786	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	90.7	64.4	127			
Surr: DNOP	5.2		5.000		105	21	129			

Sample ID: MB-71206	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch	n ID: 71 2	206	F	RunNo: 9	2253					
Prep Date: 11/1/2022	Analysis D	Date: 11	/3/2022	;	SeqNo: 3	315789	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	15									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	9.4		10.00		93.6	21	129				

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
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- 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#: 2210E19 08-Nov-22

Client: Devon Energy

Project: Mesa Verde 6 Federal 5

Sample ID: mb-71164 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 71164 RunNo: 92213

10/28/2022 Analysis Date: 11/1/2022 SeqNo: 3311358 Prep Date: Units: mq/Kq

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 900 1000 89.8 37.7 212

Sample ID: Ics-71164 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 71164 RunNo: 92213

Analysis Date: 11/1/2022 Prep Date: 10/28/2022 SeqNo: 3311359 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC I owl imit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 26 25.00 102 72.3 137 5.0

Surr: BFB 2000 1000 197 37.7 212

Sample ID: mb-71192 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: Batch ID: 71192 RunNo: 92243

Prep Date: 10/31/2022 Analysis Date: 11/1/2022 SeqNo: 3313120 Units: %Rec

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

Surr: BFB 910 1000 91.0

Sample ID: Ics-71192 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 71192 RunNo: 92243

Prep Date: 10/31/2022 Analysis Date: 11/1/2022 SeqNo: 3313121 Units: %Rec

Analyte Result POI SPK value SPK Ref Val %REC Lowl imit HighLimit %RPD **RPDLimit** Qual

Surr: BFB 1900 1000 189 37.7 212

Sample ID: Ics-71167 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: Batch ID: 71167 RunNo: 92256 LCSS

Analysis Date: 11/1/2022 Prep Date: 10/28/2022 SeqNo: 3313873 Units: mg/Kg

PQL SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result SPK value LowLimit Qual Gasoline Range Organics (GRO) 26 5.0 25.00 0 104 72.3 137

Surr: BFB 2100 1000 213 37.7 212 S

Sample ID: mb-71167 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 71167 RunNo: 92256

Prep Date: 10/28/2022 Analysis Date: 11/1/2022 SeqNo: 3313874 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 990 1000 98.7 37.7 212

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

POL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank

Above Quantitation Range/Estimated Value

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 48 of 53

Hall Environmental Analysis Laboratory, Inc.

SampType: MS

WO#: **2210E19** *08-Nov-22*

Client: Devon Energy

Sample ID: 2210E19-013ams

Project: Mesa Verde 6 Federal 5

Client ID: BS22-13 3'	Batcl	n ID: 71	167	F	RunNo: 9	2256				
Prep Date: 10/28/2022	Analysis D	Date: 11	/1/2022	S	SeqNo: 3	313876	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	23.92	0	101	70	130			
Surr: BFB	2100		956.9		222	37.7	212			S
Sample ID: 2210E19-013ams c	J Samp1	уре: М	SD	Tes	tCode: El	PA Method	8015D: Gaso	line Range)	
Client ID: BS22-13 3'	Batcl	n ID: 71 ′	167	F	RunNo: 9	2256				
Prep Date: 10/28/2022	Analysis D	Date: 11	/1/2022	5	SeqNo: 3	313877	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	23.76	0	102	70	130	0.358	20	
Surr: BFB	2100		950.6		221	37.7	212	0	0	S
Sample ID: Ics-71188	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Range	•	
Client ID: LCSS	Batcl	n ID: 71	188	F	RunNo: 9	2256				
Prep Date: 10/31/2022	Analysis D	Date: 11	/1/2022		SeqNo: 3	313900	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.1	72.3	137			
Surr: BFB	2200		1000		219	37.7	212			S
Sample ID: mb-71188	Samp1	уре: МЕ	BLK	Tes	stCode: El	PA Method	8015D: Gaso	line Range)	
Client ID: PBS	Batcl	n ID: 71	188	F	RunNo: 9	2256				

TestCode: EPA Method 8015D: Gasoline Range

Oliche ID. 1 D3	Daton	11D. 111	00		(uiii 10. 32	1230					
Prep Date: 10/31/2022	Analysis D	ate: 11	/1/2022	5	SeqNo: 33	313901	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	1000		1000		104	37.7	212				
Sample ID: 2210E19-033ams	SampT	ype: MS		Tes	tCode: EF	PA Method	8015D: Gasol	ine Range	<u> </u>	<u> </u>	Ī

Sample ID: 2210E19-033ams	SampType: MS TestCode: EPA Method 8015D: Gasoline Range							•		
Client ID: WS22-09 0-1'	Batch	ID: 71 1	188	F	RunNo: 92	2256				
Prep Date: 10/31/2022	Analysis D	ate: 11	/1/2022	5	SeqNo: 33	313903	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.8	23.97	0	103	70	130			
Surr: BFB	2100		958.8		224	37.7	212			S

Sample ID:	2210E19-033amsd	SampT	ype: MS	SD .	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID:	WS22-09 0-1'	Batch	ID: 71 1	188	F	RunNo: 92	2256				
Prep Date:	10/31/2022	Analysis D	ate: 11	/1/2022	5	SeqNo: 33	313904	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- 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#: 2210E19 08-Nov-22

Client: Devon Energy

Project: Mesa Verde 6 Federal 5

Sample ID: 2210E19-033amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: WS22-09 0-1' Batch ID: 71188 RunNo: 92256

Prep Date: 10/31/2022	Analysis D	ate: 11	/1/2022	\$	SeqNo: 33	313904	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	24	4.8	24.02	0	99.5	70	130	3.67	20		
Surr: BFB	2200		960.6		231	37.7	212	0	0	S	

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 standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank

Above Quantitation Range/Estimated Value

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210E19** *08-Nov-22*

Client: Devon Energy

Project: Mesa Verde 6 Federal 5

Sample ID: mb-71164	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batcl	n ID: 71 1	164	F	RunNo: 92	2213				
Prep Date: 10/28/2022	Analysis D	Date: 11	/1/2022	5	SeqNo: 3	311403	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: 4-Bromofluorobenzene	0.96		1.000		96.0	70	130			

Sample ID: LCS-71164	Samp	Гуре: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batcl	h ID: 71 1	164	F	RunNo: 92	2213				
Prep Date: 10/28/2022	Analysis [Date: 11	/1/2022	5	SeqNo: 3	311404	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.9	80	120			
Toluene	0.99	0.050	1.000	0	98.5	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.2	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.4	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.8	70	130			

Sample ID: Ics-71167	Samp	Type: LC	S	Tes	stCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batc	h ID: 71 1	167	F	RunNo: 92	2256				
Prep Date: 10/28/2022	Analysis [Date: 11	/1/2022	5	SeqNo: 33	313947	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.3	0.025	1.000	0	129	80	120			S
Toluene	1.3	0.050	1.000	0	128	80	120			S
Ethylbenzene	1.3	0.050	1.000	0	127	80	120			S
Xylenes, Total	3.8	0.10	3.000	0	126	80	120			S
Surr: 4-Bromofluorobenzene	1.2		1.000		124	70	130			

Sample ID: mb-71167	SampT	уре: МВ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batch	n ID: 711	167	F	RunNo: 92	2256				
Prep Date: 10/28/2022	Analysis D	Date: 11	/1/2022	9	SeqNo: 33	313948	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: 4-Bromofluorobenzene	1.2		1.000		125	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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

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#: **2210E19**

08-Nov-22

Client: Devon Energy

Project: Mesa Verde 6 Federal 5

Sample ID: 2210E19-014ams	Samp ⁻	Гуре: МЅ	3	Tes						
Client ID: BS22-14 3'	Batc	h ID: 71 1	167	F	RunNo: 92	2256				
Prep Date: 10/28/2022	Analysis [Date: 11	/1/2022	5	SeqNo: 33	313952	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.023	0.9390	0	131	68.8	120			S
Toluene	1.3	0.047	0.9390	0	133	73.6	124			S
Ethylbenzene	1.3	0.047	0.9390	0	135	72.7	129			S
Xylenes, Total	3.8	0.094	2.817	0	135	75.7	126			S
Surr: 4-Bromofluorobenzene	1.2		0.9390		128	70	130			

Sample ID: 2210E19-014amsd	SampT	Гуре: МЅ	D	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: BS22-14 3'	Batch	h ID: 711	67	F	RunNo: 92	2256				
Prep Date: 10/28/2022	Analysis D)ate: 11	/1/2022	5	SeqNo: 33	313953	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.023	0.9390	0	130	68.8	120	0.315	20	S
Toluene	1.2	0.047	0.9390	0	130	73.6	124	2.36	20	S
Ethylbenzene	1.2	0.047	0.9390	0	130	72.7	129	3.94	20	S
Xylenes, Total	3.6	0.094	2.817	0	129	75.7	126	4.34	20	S
Surr: 4-Bromofluorobenzene	1.2		0.9390		127	70	130	0	0	

Sample ID: Ics-71188	Samp	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batcl	n ID: 711	188	F	RunNo: 92	2256				
Prep Date: 10/31/2022	Analysis [Date: 11	/1/2022	9	SeqNo: 3	313973	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.3	0.025	1.000	0	128	80	120			S
Toluene	1.3	0.050	1.000	0	128	80	120			S
Ethylbenzene	1.3	0.050	1.000	0	128	80	120			S
Xylenes, Total	3.8	0.10	3.000	0	126	80	120			S
Surr: 4-Bromofluorobenzene	1.3		1.000		128	70	130			

Sample ID: mb-71188	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batch	n ID: 71 1	188	F	RunNo: 92	2256				
Prep Date: 10/31/2022	Analysis D	Date: 11	/1/2022	5	SeqNo: 33	313974	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: 4-Bromofluorobenzene	1.3		1.000		126	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
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- 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#: **2210E19**

08-Nov-22

Client: Devon Energy

Project: Mesa Verde 6 Federal 5

Sample ID: 2210E19-034ams	Samp	Гуре: МЅ	;	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: WS22-10 0-1'	Batcl	h ID: 71 1	188	F	RunNo: 92	2256				
Prep Date: 10/31/2022	Analysis [Date: 11	/1/2022	5	g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.3	0.024	0.9443	0	135	68.8	120			S
Toluene	1.3	0.047	0.9443	0	136	73.6	124			S
Ethylbenzene	1.3	0.047	0.9443	0	136	72.7	129			S
Xylenes, Total	3.9	0.094	2.833	0	136	75.7	126			S
Surr: 4-Bromofluorobenzene	1.2		0.9443		130	70	130			S

Sample ID: 2210E19-034ams	d Samp	Туре: МЅ	SD	Tes	les					
Client ID: WS22-10 0-1'	Bato	h ID: 71 1	188	F	RunNo: 9	2256				
Prep Date: 10/31/2022	Analysis	Date: 11	/1/2022	5	SeqNo: 3	313979	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.3	0.024	0.9434	0	136	68.8	120	0.897	20	S
Toluene	1.3	0.047	0.9434	0	138	73.6	124	0.824	20	S
Ethylbenzene	1.3	0.047	0.9434	0	138	72.7	129	1.43	20	S
Xylenes, Total	3.9	0.094	2.830	0	138	75.7	126	1.47	20	S
Surr: 4-Bromofluorobenzene	1.2		0.9434		130	70	130	0	0	S

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- 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

Sample Log-In Check List

Released to Imaging: 4/9/2025 4:13:09 PM

LABORATORY	Website: www.hallenvironmente	al.com		
Client Name: Devon Energy	Work Order Number: 2210E19		RcptNo: 1	
Received By: Juan Rojas 1	0/28/2022 7:15:00 AM	Hansay.		
Completed By: Tracy Casarrubias 1	0/28/2022 7:45:25 AM			
Reviewed By: 1n /u/28/22				
Chain of Custody				
1. Is Chain of Custody complete?	Yes 🗹	No 🗌	Not Present \square	
2. How was the sample delivered?	Courier			
Log In 3. Was an attempt made to cool the samples?	Yes 🗹	No 🗆	na 🗆	
4. Were all samples received at a temperature of	>0° C to 6.0°C Yes ✓	No 🗌	NA 🗌	
5. Sample(s) in proper container(s)?	Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) properly p	reserved? Yes 🗹	No 🗌		
8. Was preservative added to bottles?	Yes 🗌	No 🗹	NA 🗆	
9. Received at least 1 vial with headspace <1/4" for	or AQ VOA? Yes	No 🗌	na 🗹	
10. Were any sample containers received broken?	Yes	No 🗹	# of preserved	/
11. Does paperwork match bottle labels?	Yes 🗸	No 🗆	bottles checked for pH:	2 unless noted)
(Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain of Customark.	stody? Yes 🗹	No 🗌	Adjusted?	z dilicos lioted)
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 🗆	Checked by:	110.28.2
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 0.8 Good Yes	# # # # # # # # # # # # # # # # # # #		TO THE PERSON NAMED IN COLUMN TO THE	

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	Project #:	
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Chain-of-Custody Record	Turn-Around Time:	I I I I I I I I I I I I I I I I I I I
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Chain-of-Custody Record	Lurit-Around Lime: A Co.	HALL ENVIRONMENTAL
Client: Owon	ŀ	ANALYSIS LABORATORY
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age:	Kent Stallings	O [¢] ' ∂
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Chain-of-Custody Record	Client: Owon	D. Woodp W/W. Mathews		Phone #:	email or Fax#:	QA/QC Package:	n: D Az Cor		□ EDD (Type)		Date Time Matrix Sample Name	62:00 50:1 WS32-13	1-ccsm / soc	0:10 WS93-15	9	LI-BCSM						Date: Relinquished by:	Relinqu	I THE MAN CANADAM SAMPLE TO HAIL Environmental I

Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

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

QUESTIONS

Action 445494

QUESTIONS

Operator:	OGRID:						
HARVARD PETROLEUM COMPANY, LLC	10155						
P.O. Box 936	Action Number:						
Roswell, NM 88202	445494						
	Action Type:						
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)						

QUESTIONS

Prerequisites								
Incident ID (n#)	nGRL0927342490							
Incident Name	NGRL0927342490 MESA VERDE 6 FED 5 @ 30-025-32504							
Incident Type	Oil Release							
Incident Status	Remediation Closure Report Received							
Incident Well	[30-025-32504] MESA VERDE 6 FEDERAL #005							

Location of Release Source									
Please answer all the questions in this group.									
Site Name	Mesa Verde 6 Fed 5								
Date Release Discovered	08/27/2009								
Surface Owner	Federal								

Incident Details									
Please answer all the questions in this group.									
Incident Type	Oil Release								
Did this release result in a fire or is the result of a fire	No								
Did this release result in any injuries	No								
Has this release reached or does it have a reasonable probability of reaching a watercourse	No								
Has this release endangered or does it have a reasonable probability of endangering public health	No								
Has this release substantially damaged or will it substantially damage property or the environment	No								
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No								

Nature and Volume of Release								
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.								
Crude Oil Released (bbls) Details	Cause: Corrosion Flow Line - Production Crude Oil Released: 1 BBL Recovered: 0 BBL Lost: 1 BBL.							
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 4 BBL Recovered: 0 BBL Lost: 4 BBL.							
Is the concentration of chloride in the produced water >10,000 mg/l	Yes							
Condensate Released (bbls) Details	Not answered.							
Natural Gas Vented (Mcf) Details	Not answered.							
Natural Gas Flared (Mcf) Details	Not answered.							
Other Released Details	Not answered.							
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.							

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

QUESTIONS, Page 2

Action 445494

QUESTI	ONS (continued)						
Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID:						
2072200	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)						
QUESTIONS							
Nature and Volume of Release (continued)							
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.						
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No						
Reasons why this would be considered a submission for a notification of a major release	Unavailable.						
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.						
Initial Response The responsible party must undertake the following actions immediately unless they could create a s	rafety hazard that would result in injury.						
The source of the release has been stopped	True						
The impacted area has been secured to protect human health and the environment	True						
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True						
All free liquids and recoverable materials have been removed and managed appropriately	True						
If all the actions described above have not been undertaken, explain why	Not answered.						
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.						
to report and/or file certain release notifications and perform corrective actions for releate OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface to does not relieve the operator of responsibility for compliance with any other federal, state, or						
I hereby agree and sign off to the above statement	Name: Roni Kidd Title: Business Manager Email: rkidd@buckhornproduction.com						

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

QUESTIONS, Page 3

Action 445494

QUESTIONS (continued)

ı	Operator:	OGRID:
ı	HARVARD PETROLEUM COMPANY, LLC	10155
ı	P.O. Box 936	Action Number:
ı	Roswell, NM 88202	445494
ı		Action Type:
ı		[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination a	ssociated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligent contamination Sampling: (Provide the highest observable value for each, in milligent contamination Sampling: (Provide the highest observable value for each, in milligent contamination Sampling: (Provide the highest observable value for each, in milligent contamination Sampling: (Provide the highest observable value for each, in milligent contamination Sampling: (Provide the highest observable value for each, in milligent contamination Sampling: (Provide the highest observable value for each, in milligent contamination Sampling: (Provide the highest observable value for each, in milligent contamination Sampling: (Provide the highest observable value for each, in milligent contamination Sampling (Provide the highest observable value for each).	grams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	5200	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	390	
GRO+DRO (EPA SW-846 Method 8015M)	210	
BTEX (EPA SW-846 Method 8021B or 8260B)	0	
Benzene (EPA SW-846 Method 8021B or 8260B)	0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence	10/19/2022	
On what date will (or did) the final sampling or liner inspection occur	10/26/2025	
On what date will (or was) the remediation complete(d)	10/26/2022	
What is the estimated surface area (in square feet) that will be reclaimed	4751	
What is the estimated volume (in cubic yards) that will be reclaimed	326	
What is the estimated surface area (in square feet) that will be remediated	4751	
What is the estimated volume (in cubic yards) that will be remediated	326	
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 445494

QUESTIONS (continued)

Operator:	OGRID:
HARVARD PETROLEUM COMPANY, LLC	10155
P.O. Box 936	Action Number:
Roswell, NM 88202	445494
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	R360 ARTESIA LLC LANDFARM [fEEM0112340644]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC which includes the anticipated timelines for beginning and completing the remediation.

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.

Name: Roni Kidd
Title: Business Manager
Title: Business Manager

Email: rkidd@buckhornproduction.com

Date: 03/26/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 5

Action 445494

QUESTIONS (continued)

Operator:	OGRID:
HARVARD PETROLEUM COMPANY, LLC	10155
P.O. Box 936	Action Number:
Roswell, NM 88202	445494
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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

QUESTIONS, Page 6

Action 445494

QUESTIONS (continued)

Operator:	OGRID:
HARVARD PETROLEUM COMPANY, LLC	10155
P.O. Box 936	Action Number:
Roswell, NM 88202	445494
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	445479
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/26/2022
What was the (estimated) number of samples that were to be gathered	42
What was the sampling surface area in square feet	4751

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	4751	
What was the total volume (cubic yards) remediated	326	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	4751	
What was the total volume (in cubic yards) reclaimed	326	
Summarize any additional remediation activities not included by answers (above)	Excavation and confirmation sampling.	

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 (in .pdf format) 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.

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.

Name: Roni Kidd
Title: Business Manager
Email: rkidd@buckhornproduction.com
Date: 03/25/2025

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 7

Action 445494

QUESTIONS (continued)

Operator:	OGRID:
HARVARD PETROLEUM COMPANY, LLC	10155
P.O. Box 936	Action Number:
Roswell, NM 88202	445494
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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

CONDITIONS

Action 445494

CONDITIONS

Operator:	OGRID:
HARVARD PETROLEUM COMPANY, LLC	10155
P.O. Box 936	Action Number:
Roswell, NM 88202	445494
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Create	y Condition	Condition Date
scwe	Remediation closure approved.	4/9/2025