

Incident Number:

nOY1814156697, 1RP-5064

Release Assessment and Deferral Request

Mesa Verde 7 Federal #002

Section 07, Township 24 South, Range 32 East

API: 30-025-32399

County: Lea

Vertex File Number: 25A-01341

Prepared for:

Devon Energy Production Company, LP

Prepared by:

Vertex Resource Services Inc.

Date:

October 2025

Release Assessment and Deferral Request October 2025

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Mesa Verde 7 Federal #002

Section 07, Township 24 South, Range 32 East

API: 30-025-32399

County: Lea

Prepared for:

Devon Energy Production Company, LP

5315 Buena Vista Drive

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New Mexico Oil Conservation Division - District 1 - Hobbs

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Andrew Ludvik October 20, 2025

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ENVIRONMENTAL TECHNICIAN, REPORTING

October 20, 2025

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PROJECT MANAGER, REPORT REVIEWER

Sally Carttar

Date

Date

Release Assessment and Deferral Request October 2025

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1.0 Introduction

Devon Energy Production Company, LP (Devon Energy) retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment and Closure for a crude oil release that occurred on May 2, 2018, at Mesa Verde 7 Federal #002, API: 30-025-32399 (hereafter referred to as the "site"). Devon submitted an initial C-141 Release Notifications to New Mexico Oil Conservation Division (NMOCD) District 1 on May 16, 2018. Incident ID number nOY1814156697, was assigned to this incident.

This report provides a description of the release assessment and remediation activities associated with the site. The information presented demonstrates that closure criteria established in Table I of 19.15.29.12 of the *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) related to NMOCD has been met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NMOCD for deferral of this release, with the understanding that restoration of the release site will be completed following remediation activities and deferred until such time as all oil and gas activities are terminated and the site is reclaimed as per NMAC 19.15.29.13.

2.0 Incident Description

The release occurred on May 2, 2018, when an oil tank overflowed and released approximately 14.48 barrels (bbl.) of crude oil into the unlined earthen berm containment. Approximately 8 bbl. of free fluid was removed during initial clean-up. Additional details relevant to the release are presented in the C-141 Report. Daily Field Report (DFRs) and site photographs are included in Appendix B.

3.0 Site Characteristics

The site is located approximately 21.15 miles east of Malaga, New Mexico (Google Inc., 2025). The legal location for the site is Unit C, Section 07, Township 24 South and Range 32 East in Lea County, New Mexico. The release area is located on Bureau of Land Management property. An aerial photograph and site schematic are presented on Figure 1.

The location is typical of oil and gas exploration and production sites in the Permian Basin and is currently used for oil and gas production and storage. The following sections specifically describe the release area on the constructed pad west, north, and east of the tank battery and the pasture south of the constructed pad (Figure 1).

The surrounding landscape is associated with plains with elevations ranging between 3,000 and 3,900 feet. The climate is semiarid with average annual precipitation ranging between 10 and 12 inches. The dominant vegetation was determined to be grasses with shrubs (United States Department of Agriculture, Natural Resources Conservation Service, 2023). Limited to no vegetation is allowed to grow on the compacted production pad, right-of-way and access road. The surface geology at the site primarily comprises Qep — Eolian and piedmont deposits from the Holocene to middle Pleistocene ages (New Mexico Bureau of Geology and Mineral Resources, 2025) and the soil at the site is characterized as PU — Pyote and Maljamar fine sands. The soils tend to be well drained with very low potential for runoff (United States Department of Agriculture, Natural Resources Conservation Service, 2025). The karst geology potential for the site low (United States Department of the Interior, Bureau of Land Management, 2018).

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4.0 Closure Criteria Determination

The depth to groundwater was determined by drilling a borehole permitted by the New Mexico Office of the State Engineer (NMOSE) within a 0.5-mile radius, 0.37 miles northeast, of the site. The borehole was advanced to a depth of 105 feet on December 14, 2023. No water was found to be present at that time. Documentation related to the exploratory borehole is included in Appendix A and Appendix B.

There is no surface water is present at the site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is an intermittent stream located approximately 5.78 miles west of the site (United States Fish and Wildlife Service, 2025). At the site, there are no 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. Information pertaining to the closure criteria determination is summarized in Table 1 and references are included in Appendix A.

ill Coo	rdinates: 32.23701,-103.71170	X: 621377	Y: 3567435
e Spe	cific Conditions	Value	Unit
	Depth to Groundwater (nearest reference)	105'	feet
4	Distance between release and nearest DTGW	1,950	feet
1	reference	0.37	miles
	Date of nearest DTGW reference measurement	Decembe	er 14, 2023
2	Within 300 feet of any continuously flowing	20.402	C 1
2	watercourse or any other significant watercourse	30,492	feet
_	Within 200 feet of any lakebed, sinkhole or playa	20.045	
3	lake (measured from the ordinary high-water mark)	38,945	feet
_	Within 300 feet from an occupied residence, school,	45.406	C 1
4	hospital, institution or church	15,486	feet
	i) Within 500 feet of a spring or a private, domestic		
	fresh water well used by less than five households	4,299	feet
5	for domestic or stock watering purposes, or		
	ii) Within 1000 feet of any fresh water well or spring	4,491	feet
	Within incorporated municipal boundaries or		
	within a defined municipal fresh water field		
6	covered under a municipal ordinance adopted	No	(Y/N)
	pursuant to Section 3-27-3 NMSA 1978 as amended,		
	unless the municipality specifically approves		
7	Within 300 feet of a wetland	4,188	feet
	Within the area overlying a subsurface mine	No	(Y/N)
8	Distance between release and nearest registered		
	mine	68,277	feet
			Critical
	Mithin on unstable area (Korst Man)	Law	High
0	Within an unstable area (Karst Map)	Low	Medium
9			Low
	Distance between release and nearest unstable	47,898	feet
	area		1000
	Within a 100-year Floodplain	Undetermined	year
10	Distance between release and nearest FEMA Zone	36,036	feet
	A (100-year Floodplain)	30,030	1000
11	Soil Type	Fine Sand, fir	ne sandy loam
12	Ecological Classification	Loam	y Sand
13	Geology	Eolian and pied	dmont deposits
			<50'
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	>100'	51-100'
			>100'

The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 2.

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	20,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
> 100 feet	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

TDS - total dissolved solids

5.0 Remedial Actions Taken

Site characterization was conducted between February 22, 2023, and April 12, 2023, which identified the area of the release specified in the initial C-141 Report and estimated the approximate volume of the release. The impacted area was determined to be approximately 38 feet long and 71 feet wide; with the total release extent approximately 1,972 square feet in size. The DFRs associated with the site inspection is included in Appendix B.

Remediation efforts began on September 3, 2025, and was finalized on September 10, 2025. Vertex personnel supervised the excavation of impacted soils. Field screening was completed on a total of 16 sample points and consisted of analysis using a Photo Ionization Detector (volatile hydrocarbons), Dexsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and silver nitrate/electro conductivity meter (chlorides). Field screening results were used to identify areas requiring further remediation. Soils were removed to a depth of 2 to 2.5 feet bgs. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. DFRs documenting various phases of the remediation are presented in Appendix B.

Notification that confirmatory samples were being collected was provided to the NMOCD on August 5, 2025. Confirmation composite samples were collected from the release area in increments of no larger than 200 square feet from the base and walls of the excavations. On September 9 and 10, 2025, Vertex personnel collected 16 confirmation samples and 1 backfill samples for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Eurofins Environment Testing and Envirotech 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, and the laboratory data reports are included in Appendix C. All confirmatory samples collected and analyzed were below closure criteria for the site, except for WS25-04 and -05.

TPH - total petroleum hydrocarbons, GRO - gas range organics, DRO - diesel range organics, MRO - motor oil range organics

BTEX – benzene, toluene, ethylbenzene and xylenes

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6.0 Deferral Request

Vertex recommends no additional remediation action to address the release at Mesa Verde 7 Federal #002 at this time until the equipment on-site is decommissioned and removed. Laboratory analyses of the confirmation samples collected from the accessible portions of the release area showed constituent of concern concentration levels below NMOCD closure criteria for areas where depth to groundwater is greater than 100 feet bgs as shown in Table 2. The accessible areas of the release area were fully remediated and backfilled with local soils. There are no anticipated risks to human, ecological or hydrological receptors associated with the release site.

Vertex, on behalf of Devon Energy Production Company, LP, requests the deferral within the containment area as it is in proximity to tank batteries and associated infrastructure. Site deconstruction will be required to complete remediation of the release. The release has been delineated with the understanding that final remediation and restoration of locations WS25-04 and WS25-05 will result in excavation of the containment area. The proposed deferral area consists of 954 square feet encompassing below the tank batteries and associated equipment. The remainder of the release will be deferred until such time as all oil and gas activities are terminated as per NMAC 19.15.29.12 and 19.15.29.13.

Vertex respectfully requests that incident (nOY1814156697) be deferred until the production equipment is retired and removed prior to reclamation. Devon certifies that all information in this report and the attachments is correct, and that they have complied with all applicable requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain deferral on the May 16, 2018, release at Mesa Verde 7 Federal #002.

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

7.0 References

- Google Inc. (2025). Google Earth Pro (Version 7.3.3) [Software]. Retrieved from https://earth.google.com
- New Mexico Bureau of Geology and Mineral Resources. (2025). *Interactive Geologic Map*. Retrieved from https://maps.nmt.edu/
- New Mexico Department of Surface Water Quality Bureau. (2025). Assessed and Impaired Waters of New Mexico.

 Retrieved from https://gis.web.env.nm.gov/oem/?map=swqb
- New Mexico Energy, Minerals and Natural Resources Department. (2025). *OCD Permitting Spill Search*. Retrieved from https://wwwapps.emnrd.nm.gov/ocd/ocdpermitting/Data/Spills/Spills.aspx
- New Mexico Office of the State Engineer. (2025a). *Point of Diversion Location Report New Mexico Water Rights Reporting System*. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/wellSurfaceDiversion.html
- New Mexico Office of the State Engineer. (2025b). Water Column/Average Depth to Water Report New Mexico Water Rights Reporting System. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html
- New Mexico Office of the State Engineer. (2025c). Well Log/Meter Information Report New Mexico Water Rights Reporting System. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/meterReport.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. (2025). *Web Soil Survey*. Retrieved from https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx
- United States Department of Homeland Security, Federal Emergency Management Agency. (2025). *FEMA Flood Map Service: Search by Address*. Retrieved from https://msc.fema.gov/portal/search?AddressQuery=malaga% 20new%20mexico#searchresultsanchor
- United States Department of the Interior, Bureau of Land Management. (2018). *New Mexico Cave/Karst*. Retrieved from https://www.nm.blm.gov/shapeFiles/cfo/carlsbad spatial data.html
- United States Geological Survey. (2025). *National Water Information System: Web Interface*. Retrieved from https://waterdata.usgs.gov/nwis
- United States Fish and Wildlife Service. (2025). *National Wetland Inventory Surface Waters and Wetlands*. Retrieved from https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/

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8.0 Limitations

This report has been prepared for the sole benefit of Devon Energy Production Company, LP. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division and the Bureau of Land Management, without the express written consent of Vertex Resource Services Inc. (Vertex) and Devon Energy Production Company, LP. 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.

FIGURES

Client Name: Devon Energy Production Company, LP

Site Name: Mesa Verde 7 Federal #002 NM OCD Tracking #: nOY1814156697

Project #: 25A-01341

Lab Reports: 2302A64, 2302B05, 2302B49, 2303177, and 2304661

	Table 3	3. Initial Characterizati	on Labora	tory Resul	ts - Depth	to Groun	dwater >1	00 feet bg	s	
	Sample Des	cription		-	Petrole	eum Hydro	arbons	_		
	1		Vol	atile			Extractable	2		Inorganic
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration of
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
					Depth	to Ground	water >100	feet bgs		
	•		Во	rehole San	nples					
	0	February 22, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-01	2	February 22, 2023	ND	ND	ND	ND	ND	ND	ND	83
	4	February 22, 2023	ND	ND	ND	ND	ND	ND	ND	130
	0	February 22, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-02	2	February 22, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	4	February 22, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	0	February 22, 2023	ND	ND	ND	380	780	380	1160	ND
BH23-03	2	February 22, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	4	February 22, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	0	February 22, 2023	ND	ND	ND	170	480	170	650	ND
B.100 5 5	2	February 22, 2023	ND	ND	ND	2700	2200	2700	4900	ND
BH23-04	4	February 22, 2023	ND	ND	ND	330	630	330	960	ND
	6	February 23, 2023	ND	ND	ND	ND	ND	ND	ND	170
	8	February 23, 2023	ND	ND	ND	25	ND	25	25	110
	0	February 23, 2023	ND	2.64	60	930	930	990	1920	ND
	2	February 23, 2023	0.028	0.928	21	1900	2400	1921	4321	ND
	4	February 23, 2023	ND	0.16	5.2	810	1400	815.2	2215.2	ND
BH23-05	6	February 23, 2023	ND	0.13	ND	350	650	350	1000	ND
	8	February 23, 2023	ND	ND	ND	290	550	290	840	ND
	10	February 24, 2023	ND	ND	ND	25	ND	25	25	88
	12	February 24, 2023	ND	ND	ND	ND	ND	ND	ND	97
	0	February 23, 2023	ND	ND	ND	8200	5300	8200	13500	260
BH23-06	2	February 23, 2023	ND	ND	ND	1500	1700	1500	3200	ND
	4	February 23, 2023	ND	ND	ND	1700	2100	1700	3800	ND
	0	February 24, 2023	1.2	176.2	2300	13000	4900	15300	20200	ND
	2	February 24, 2023	ND	ND	11	370	180	381	561	ND
BH23-07	4	February 24, 2023	ND	ND	ND	22	ND	22	22	ND
	6	February 24, 2023	ND	ND	ND	55	ND	55	55	ND
	7	February 24, 2023	ND	ND	ND	21	ND	21	21	ND
	0	March 1, 2023	ND	ND	ND	91	210	91	301	ND
BH23-08	2	March 1, 2023	ND	ND	ND	1300	1600	1300	2900	ND
	4	March 1, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	0	March 1, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-09	2	March 1, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	4	March 1, 2023	ND	ND	ND	ND	ND	ND	ND	ND



Client Name: Devon Energy Production Company, LP

Site Name: Mesa Verde 7 Federal #002 NM OCD Tracking #: nOY1814156697

Project #: 25A-01341

Lab Reports: 2302A64, 2302B05, 2302B49, 2303177, and 2304661

	Table 3	3. Initial Characterizati	on Labora	tory Resul	ts - Depth	to Groun	dwater >1	00 feet bg	s	
	Sample Des	cription			Petrole	um Hydro	arbons			
			Vol	atile			Extractable	9		Inorganic
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
					Depth	to Ground	water >100	feet bgs		
	0	April 12, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-10	2	April 12, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	4	April 12, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	0	April 12, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-11	2	April 12, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	4	April 12, 2023	ND	ND	ND	ND	ND	ND	ND	120
	0	April 12, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-12	2	April 12, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	4	April 12, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	0	April 12, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-13	2	April 12, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	4	April 12, 2023	ND	ND	ND	ND	ND	ND	ND	ND

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

Bold and grey shaded indicates exceedance outside of NMOCD Remediation Closure Criteria



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

Client Name: Devon Energy Production Company, LP

Site Name: Mesa Verde 7 Federal #002 NM OCD Tracking #: nOY1814156697

Project #: 25A-01341

Lab Reports: 885-33153-1, 885-33151-1, 885-33156-1, and E509289

		Table 4. Confirma	tory Samp	le Field Sc	reen and	Laboratory	/ Results-	Depth to	Groundwa	ter > 100	feet bgs		
	Sample D	escription	Fi	eld Screeni	ng			Petrole	um Hydrod	arbons			
			s			Vola	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
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
							epth to Gro	undwater	>100 feet b	gs			
						Samples							
BS25-01	2.5	September 9, 2025	0	912	533	ND	ND	ND	260	370	260	630	450
BS25-02	2	September 9, 2025	0	758	626	ND	ND	ND	130	200	130	330	610
BS25-03	2	September 9, 2025	0	7	139	ND	ND	ND	ND	ND	ND	ND	140
BS25-04	2	September 9, 2025	0	858	209	ND	ND	ND	22	ND	22	22	140
BS25-05	2	September 9, 2025	0	27	59	ND	ND	ND	ND	ND	ND	ND	ND
BS25-06	2	September 9, 2025	0	618	30	ND	ND	ND	17	ND	17	17	68
BS25-07	2	September 10, 2025	0	12	125	ND	ND	ND	ND	ND	ND	ND	ND
BS25-08	2	September 10, 2025	0	27	142	ND	ND	ND	ND	ND	ND	ND	1,200
					Wall	Samples							
WS25-01	0-2.5	September 9, 2025	0	100	890	ND	ND	ND	36	ND	36	36	990
WS25-02	0-2	September 9, 2025	0	12	342	ND	ND	ND	ND	ND	ND	ND	190
WS25-03	0-2	September 9, 2025	0	40	150	ND	ND	ND	ND	ND	ND	ND	100
WS25-04	0-2	September 9, 2025	-	-	-	ND	ND	7.3	2,900	1,500	2,907	4,407	1,100
WS25-05	0-2	September 9, 2025	-	-	-	ND	ND	17	7,800	5,000	7,817	12,817	2,000
WS25-06	0-2	September 9, 2025	-	-	-	ND	ND	ND	190	580	190	770	200
WS25-07	0-2	September 10, 2025	-	34	200	ND	ND	ND	ND	ND	ND	ND	1,900
WS25-08	0-2	September 10, 2025	-	12	145	ND	ND	ND	ND	ND	ND	ND	330
					Backf	ill Sample							
Backfill-01	-	September 24, 2025	-	-	-	ND	ND	ND	ND	ND	ND	ND	160

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

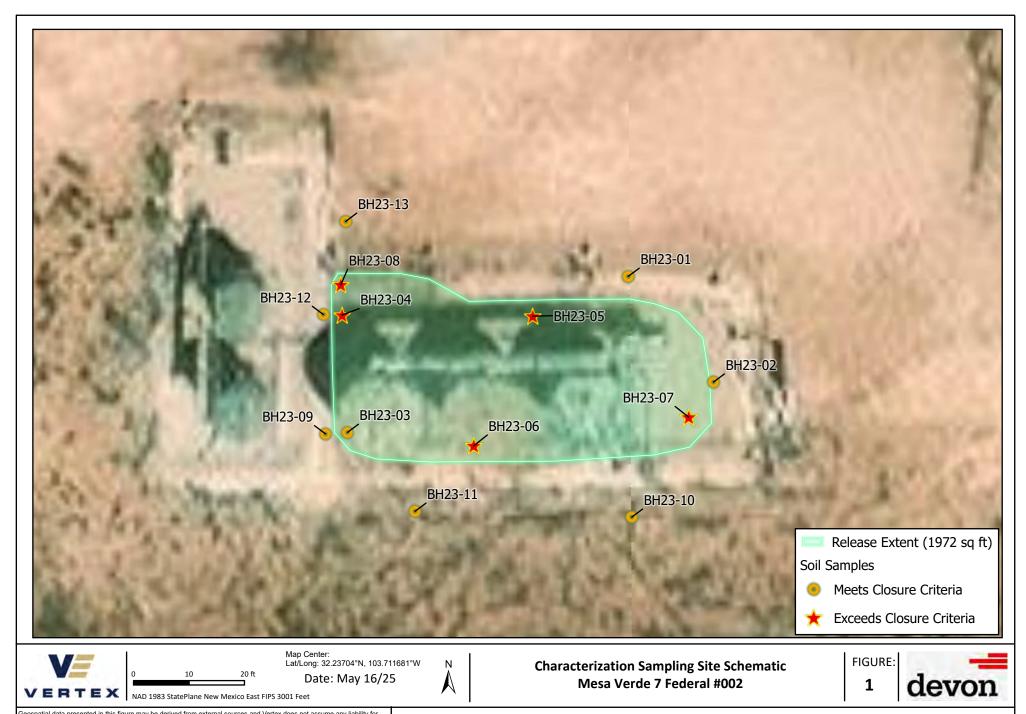
Bold and grey shaded indicates exceedance outside of NM OCD Closure Criteria (on-pad)

Bold and green shaded indicates exceedance outside of NM OCD Reclamation Criteria (off-pad)



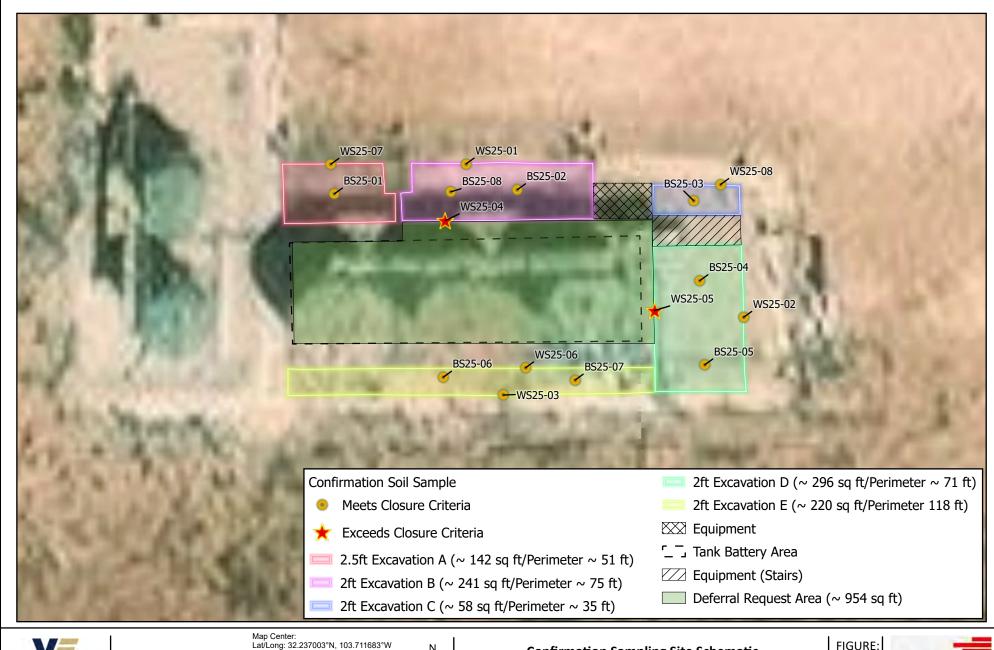
[&]quot;-" indicates not analyzed/assessed

TABLES



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.



VERTEX

Map Center: Lat/Long: 32.237003°N, 103.711683°W



Confirmation Sampling Site Schematic
Mesa Verde 7 Federal #002

2



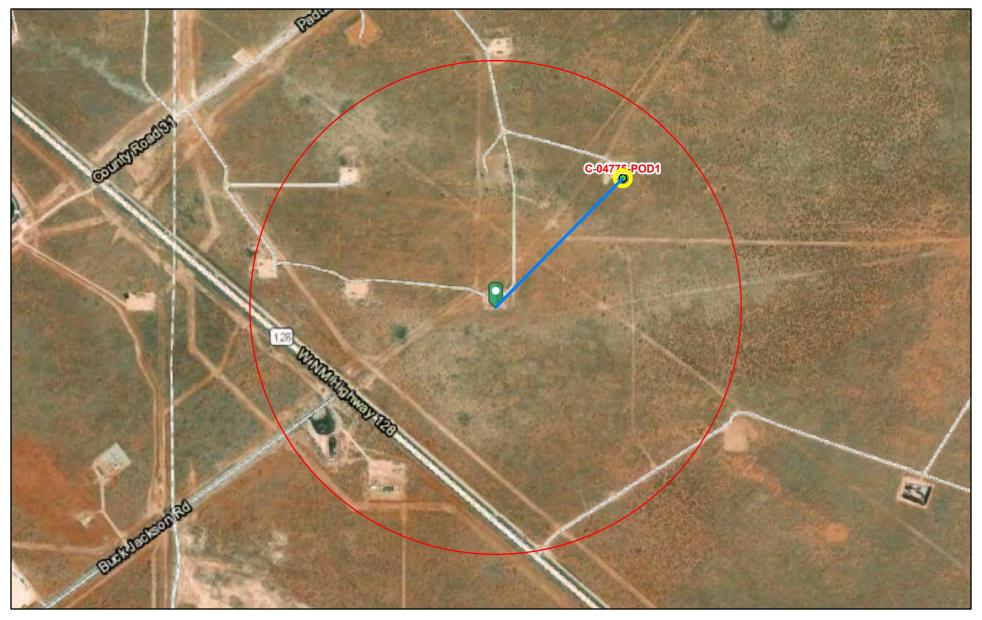
Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for naccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

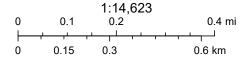
APPENDIX A – Closure Criteria Research Documentation

	riteria Determination		
	e: Mesa Verde 7 Federal #002	ly 624277	V 2567425
	rdinates: 32.23701,-103.71170	X: 621377	Y: 3567435
ite Spec	ific Conditions	Value	Unit
	Depth to Groundwater (nearest reference)	105'	feet
1	Distance between release and nearest DTGW reference	1,950	feet
	Data of magnet DTCW reference magnetical	0.37	miles
	Date of nearest DTGW reference measurement		r 14, 2023
2	Within 300 feet of any continuously flowing watercourse	30,492	feet
	or any other significant watercourse		
3	Within 200 feet of any lakebed, sinkhole or playa lake	38,945	feet
	(measured from the ordinary high-water mark) Within 300 feet from an occupied residence, school,		
4	hospital, institution or church	15,486	feet
	i) Within 500 feet of a spring or a private, domestic fresh		
	water well used by less than five households for	4,299	feet
5	domestic or stock watering purposes, or	4,233	leet
3			
	ii) Within 1000 feet of any fresh water well or spring	4,491	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	4,188	feet
	Within the area overlying a subsurface mine	No	(Y/N)
8		110	
	Distance between release and nearest registered mine	68,277	feet
			Critical
	Lucit (v. 1841)		High
_	Within an unstable area (Karst Map)	Low	Medium
9			Low
	Distance between release and nearest unstable area	47,898	feet
		·	
10	Within a 100-year Floodplain	Undetermined	year
10	Distance between release and nearest FEMA Zone A	36,036	feet
	(100-year Floodplain)		
11	Soil Type	Fine Sand, fir	ne sandy loam
12	Ecological Classification	Loam	y Sand
		254111	,
13	Geology	Eolian and pied	dmont deposits
			<50'
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	>100'	51-100'
			>100'

Mesa Verde 7 Federal 2 - 1,950 ft from DTGW reference



1/26/2024, 12:12:37 PM



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



New Mexico Office of the State Engineer 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)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

		POD Sub-		0	Q	0								,	Water
POD Number	Code		County	_	_	_	Sec	Tws	Rng	X	Y	DistanceDe	pthWellDep		
C 04775 POD1		CUB	LE				06	24S	32E	621789	3567860	577	105		
<u>C 04672 POD 1</u>		CUB	ED	2	1	4	01	24S	31E	619762	3568286	1611	110		
C 03555 POD1		C	LE	2	2	1	05	24S	32E	622748	3569233	1684	600	380	220
<u>C 04712 POD1</u>		CUB	LE	1	4	1	31	23S	32E	620917	3570289	2078	55		
C 03530 POD1		C	LE	3	4	3	07	24S	32E	620886	3566156	2159	550		
<u>C 04746 POD1</u>		CUB	ED	3	4	3	36	23S	31E	619226	3569417	2439	105		
C 04687 POD1		CUB	ED	4	2	3	12	24S	31E	619481	3566450	2618	110		
C 03529 POD1		C	LE	2	4	3	29	23S	32E	622651	3571212	3216	550		
<u>C 02405</u>		CUB	ED		4	1	02	24S	31E	617690	3568631*	3701	275	160	115
<u>C 02464</u>		C	ED	2	3	1	02	24S	31E	617645	3568581	3742	320	205	115
<u>C 02460</u>		C	ED			3	02	24S	31E	617496	3568022*	3884	320		
C 02460 POD2		C	ED			3	02	24S	31E	617496	3568022*	3884	320		
C 03527 POD1		C	LE	1	2	3	03	24S	32E	625770	3568487	4402	500		
C 04780 POD1		CUB	LE	1	3	1	34	23S	32E	625364	3570521	4586	80		
C 03851 POD1		CUB	LE	3	3	4	20	23S	32E	622880	3572660	4649	1392	713	679
<u>C 02348</u>		C	ED	1	4	3	26	23S	31E	617648	3571068	4664	700	430	270
<u>C 02350</u>		CUB	ED		4	3	10	24S	32E	625826	3566333*	4852	60		
<u>C 02258</u>		C	ED		3	2	26	23S	31E	618055	3571853*	4889	662		
											Avera	ge Depth to Wa	iter:	377 fe	eet

Minimum Depth: 160 feet

Maximum Depth: 713 feet

Record Count: 18

UTMNAD83 Radius Search (in meters):

Easting (X): 621373 **Northing (Y):** 3568261 **Radius:** 5000

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

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/26/24 11:26 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

X

NA

C 04775 POD1

24S 32E 621789 3567860

Driller License:

1833

Driller Company:

VISION RESOURCES, INC

Driller Name:

JASON MALEY

12/14/2023

Drill Finish Date:

12/14/2023

Plug Date:

12/21/2023

Drill Start Date: Log File Date:

01/12/2024

PCW Rcv Date:

Source: **Estimated Yield:**

Pump Type: Casing Size: Pipe Discharge Size: Depth Well:

105 feet

Depth Water:

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability for any particular purpose of the data.

1/26/24 11:26 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Water Right Summary

Cross Reference:

WR File Number: C 04775 Subbasin: CUB

Primary Purpose: MON MONITORING WELL

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Owner: DEVON ENERGY RESOURCES

Contact: DALE WOODALL

Documents on File

Status From/

Trn# Doc File/Act 1 2 Transaction Desc. To Acres Diversion Consumptive

85 85 751179 EXPL 2023-09-19 PMT APR C-4775 POD1 T 0 0

Current Points of Diversion

(NAD83 UTM in meters)

POD Number Well Tag Source 64Q16Q4Sec Tws Rng X Y Other Location Desc

<u>C 04775 POD1</u> NA 4 4 4 06 24S 32E 621789 3567860

Source

Acres Diversion CU Use Priority Source Description

0 0 MON GV

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/27/24 5:09 PM WATER RIGHT SUMMARY



WELL RECORD & LOG	Mass	100da1.5
OFFICE OF THE STATE ENGINEER	1 reac	verde 61

NO	C-4775 PO	D1	.,		WELL TAG ID NO.			C04775		(S).			
ОСАТІ	WELL OWNE Devon Ener	The state of the state of						PHONE	(OPT)	IONAL)			
WELL L	WELL OWNE 205 E. Bend							CITY Hobbs			STA	ATE. 88240	ZIP
1. GENERAL AND WELL LOCATION	WELL LOCATION (FROM GPS DESCRIPTIO	S) LOI	E TITUDE NGITUDE NG WELL LOCATION T	SEGREES 32 -103 O STREET ADDIT	MINUTES 14 42 RESS AND COMMON	SECO 26.8 26.1 LANDM	8944 N 864 W	* DATU	M RE	/ REQUIRED: ONE TEN QUIRED: WGS 84 DWNSHJIP, RANGE) WI			
	LICENSE NO.	3	NAME OF LICENSEI	O DRILLER	Jason Maley					NAME OF WELL DR		G COMPANY Resources	
	DRILLING ST 12-14-		DRILLING ENDED 12-14-23	DEPTH OF CO	MPLETED WELL (FT) 105')		LE DEPTH (105'	FT)	DEPTH WATER FIR		COUNTERED (FT) Dry	1+
NO	COMPLETED	WELL IS:	ARTESIAN *add	DRY HOL	E SHALLOW	/ (UNCC	NFINED)		COM	WATER LEVEL PLETED WELL D	гу	DATE STATIC 12-18	
IATI	DRILLING FLI		₹ AIR	☐ MUD	ADDITIVE								
ORM	DRILLING ME	THOD: 🗸	ROTARY HAM	MER CABI	E TOOL OTHER	R – SPEC	CIFY:			CHECK INSTAL	HERE LED	IF PITLESS ADAI	PTER IS
INF	DEPTH (feet bgl)	BORE HOLE	CASING	MATERIAL AND/	OR	CA	SING		CASING	C.	ASING WALL	
ASING	FROM	ТО	DIAM (inches)		GRADE each casing string, a sections of screen)	nd	CONN	ECTION YPE ing diamete	r)	INSIDE DIAM. (inches)	1000	THICKNESS (inches)	SLOT SIZE (inches)
& C	0	95'	6"	2'	PVC SCH40			read		2"		SCH40	N/A
2. DRILLING & CASING INFORMATION	95'	105'	6"	2	PVC SCH40		Ti	nread		2"		SCH40	.05
	DEPTH (f	eet bgl)	BORE HOLE	LIST ANNUI	LAR SEAL MATERIA			PACK SIZ	E-	AMOUNT		1	
TERIAL	FROM	ТО	DIAM. (inches)	*(if using Cen	RANGE BY I tralizers for Artesian None Pulled a	wells- i	ndicate the s	spacing bel	ow)	(cubic feet)		METHOI PLACEM	
3. ANNULAR MATERIAL													
FOR FILE	OSE INTERNA	AL USE			l non ve					WELL RECORD &	LOC	i (Version 09/22	/2022)
	ATION				POD NO.				N N				
LUCA	711014						V	VELL TAC	G ID	NO.		PAGE 1	OF 2

	DEPTH (feet bgl)						ESTIMATED
	FROM	ТО	THICKNESS (feet)	COLOR AND TYPE OF MATERI. INCLUDE WATER-BEARING CAVITI (attach supplemental sheets to fu	ES OR FRA	CTURE ZONES	WATER BEARING? (YES / NO)	YIELD FOR WATER- BEARING ZONES (gpm)
	0	10'	10'	Red coarse sar	nd		Y VN	l la
	10'	30'	20'	Tan Fine sand wih co	arse rock		Y /N	
	30°	40'	10'	Red sand with white	caliche		Y ✓N	
	40'	60'	20'	Tan sand with white	caliche		Y ✓N	
	60'	80'	20'	Red sand with sma	ll rock		Y ✓N	
75	80'	105'	25'	Tan fine sand with	caliche		Y ✓N	4
4. HYDROGEOLOGIC LOG OF WELL							Y N	
OF							Y N	
TOG							Y N	
SIC							Y N	
CO							Y N	
GEC							Y N	
ORO							Y N	
HY		- (Y N	
4							Y N	
							Y N	
							Y N	
							Y N	
							Y N	
							Y N	
							Y N	
	METHOD US			F WATER-BEARING STRATA: BAILER OTHER – SPECIFY: Dry			AL ESTIMATED LL YIELD (gpm):	0
5. TEST; RIG SUPERVISION	WELL TEST	STAR	RESULTS - ATTA TTIME, END TIM ORMATION:	CH A COPY OF DATA COLLECTED DURI E, AND A TABLE SHOWING DISCHARGE	NG WELL 7 AND DRA	TESTING, INCLUDIN	NG DISCHARGE E TESTING PERI	METHOD, OD.
5. TEST; RI	PRINT NAM	E(S) OF DF	RILL RIG SUPERV	ISOR(S) THAT PROVIDED ONSITE SUPE	RVISION O	F WELL CONSTRUC	CTION OTHER T	HAN LICENSEE:
6. SIGNATURE	CORRECT R	ECORD OF	THE ABOVE DE	S THAT, TO THE BEST OF HIS OR HER IS SCRIBED HOLE AND THAT HE OR SHE VENTON OF WELL DO NOT	VILL FILE	GE AND BELIEF, THE THIS WELL RECOR	HE FOREGOING D WITH THE ST I/IO/2 DATE	IS A TRUE AND ATE ENGINEER
FOR	OSE INTERN	AL USE				WD 20 WELL BEC	SORD # LOC "	
	E NO.	LE COL		POD NO.		WR-20 WELL REC	UKD & LUG (Ve	ersion 09/22/2022)
LOC	CATION				WELL	TAG ID NO.		PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

Well owner: Devon Energy Resources Phone No.: Mailing address: 205 E. Bender Road # 150 City: Hobbs State: NM Zip code: 88240 II. WELL PLUGGING INFORMATION: 1) Name of well drilling company that plugged well: Vision Resources 2) New Mexico Well Driller License No.: 1833 Expiration Date: 10-7-25 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Jason Maley 4) Date well plugging began: 12-21-23 Date well plugging concluded: 12-21-23 5) GPS Well Location: Latitude: 32 deg, 14 min, 26.8944 sec Longitude: -103 deg, 42 min, 26.1864 sec, WGS 84 6) Depth of well confirmed at initiation of plugging as: 105 ft below ground level (bgl), by the following manner: Tape 7) Static water level measured at initiation of plugging: Dry ft bgl Bate well plugging plan of operations was approved by the State Engineer: 9-21-23 Were all plugging activities consistent with an approved plugging plan? Yes If not, please dedifferences between the approved plugging plan and the well as it was plugged (attach additional pages as need	Vell (Engineer Well Number: <u>C</u> Devon Energy Re	sources				Dhone	No.		
Hobbs State: NM Zip code: 88240						_	FIIOHE	: NO.:		
Name of well drilling company that plugged well: New Mexico Well Driller License No.: 1833 Expiration Date: 10-7-25 Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):				State	e:		NM		Zip code	. 88240
Name of well drilling company that plugged well: Vision Resources New Mexico Well Driller License No.: 1833	337									11/4
Name of well drilling company that plugged well: Vision Resources New Mexico Well Driller License No.: 1833	I. W	ELL PLUGGING INFO	RMATION:							
New Mexico Well Driller License No.: 1833 Expiration Date: 10-7-25 Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):				gged well:	Vision Re	sources				
Date well plugging began: 12-21-23 Date well plugging concluded: 12-21-23 GPS Well Location: Latitude: 32 deg, 14 min, 26.8944 sec Longitude: -103 deg, 42 min, 26.1864 sec, WGS 84 Depth of well confirmed at initiation of plugging as: 105 ft below ground level (bgl), by the following manner: Tape Static water level measured at initiation of plugging: Dry ft bgl Date well plugging plan of operations was approved by the State Engineer: 9-21-23 Were all plugging activities consistent with an approved plugging plan? Yes If not, please definition of plugging plan?)							Expira	ation Date:	10-7-25
GPS Well Location: Latitude: 32 deg, 14 min, 26.8944 sec Longitude: -103 deg, 42 min, 26.1864 sec, WGS 84 Depth of well confirmed at initiation of plugging as: 105 ft below ground level (bgl), by the following manner: Tape Static water level measured at initiation of plugging: Dry ft bgl Date well plugging plan of operations was approved by the State Engineer: 9-21-23 Were all plugging activities consistent with an approved plugging plan? Yes If not, please definition of the plugging plan?)	Well plugging activitie Jason Maley	es were supervise	d by the fol	lowing we	ell driller	(s)/rig su	pervisor(s):	
Depth of well confirmed at initiation of plugging as:)	Date well plugging beg	gan: 12-21-23		Date	e well plu	agging c	oncluded:	12-21-23	
by the following manner: Tape Static water level measured at initiation of plugging:ft bgl Date well plugging plan of operations was approved by the State Engineer:9-21-23 Were all plugging activities consistent with an approved plugging plan? Yes If not, please de		GPS Well Location:	Latitude: Longitude: _	32 -103	deg, deg,	14 42	min, min,	26.8944 26.1864	_ sec _ sec, WGS	84
Date well plugging plan of operations was approved by the State Engineer: 9-21-23 Were all plugging activities consistent with an approved plugging plan? Yes If not, please de		Depth of well confirme by the following manne	ed at initiation of er: Tape	plugging as	s:105	ft be	low grou	and level (bgl),	
Were all plugging activities consistent with an approved plugging plan? Yes If not, please de		Static water level meas	ured at initiation	of plugging	g: Dry	ft bg	şl			
		Date well plugging plan	n of operations w	as approve	d by the St	tate Engi	neer:	9-21-23	2.0	
differences between the approved plagging plan and the wen as it was plugged (attach additional pages as need)	Were all plugging activ	vities consistent we approved plugg	vith an appr ing plan an	oved plug d the well	ging plar as it was	n?	Yes I (attach ac	_ If not, 1	please desci

Version: September 8, 2009 Page 1 of 2

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	0	155	155	Tremie pipe Open Hole	
	Wyoming Bentonite				
-					
	_ 105' _ _				
-		MULTIPLY cubic feet x cubic yards x 2	BY AND OBTAIN 7.4805 = gallons 01.97 = gallons	U	1

III. SIGNATURE:

I, $\underline{\underline{\mathsf{Jason\,Maley}}}$, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Version: September 8, 2009

Page 2 of 2



Mesa Verde 7 Federal #002 Watercourse 30,492 feet



January 26, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Other

Riverine

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.



Mesa Verde 7 Federal #002 Pond 38,945ft



May 16, 2025

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

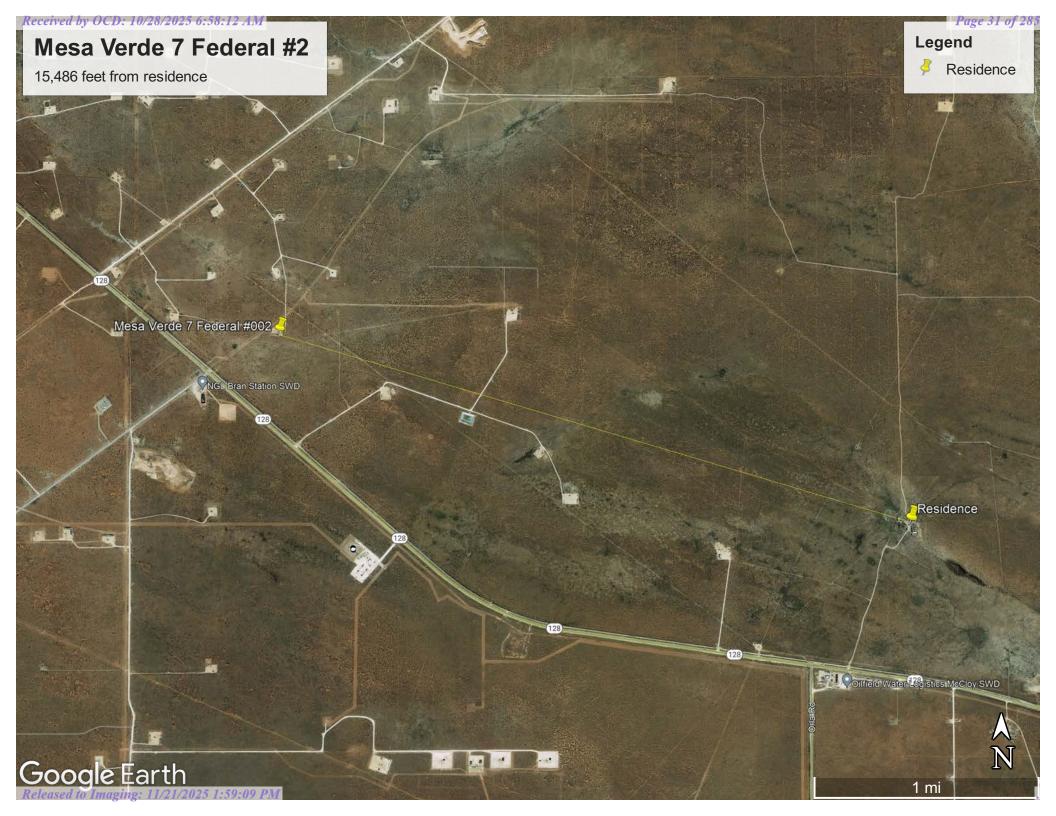
Lake

Other



Riverine

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.





New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

										(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)) (NAD83 UTM in meters)		
	Sub				Well			qqq								
WR File Nbr C 03530	basin C	Use Divers	sion Owner 0 ANNETTE MCCLOY	County LE	POD Number C 03530 POD1	Tag	Code Grant	Source	6416 4 3 4 3			Rng 32E	X 620886	Y 3566156	Distance 1369	
<u>C 04672</u>	CUB	EXP	0 OXY USA INC.	ED	<u>C 04672 POD 1</u>	NA			2 1 4	01	24S	31E	619762	3568286	1825	
<u>C 04687</u>	CUB	MON	0 OXY USA INC	ED	<u>C 04687 POD1</u>	NA			4 2 3	12	24S	31E	619481	3566450	2136	
<u>C 03555</u>	C	STK	3 NGL WATER SOLUTIONS PERMIAN	LE	<u>C 03555 POD1</u>	NA		Shallow	2 2 1	05	24S	32E	622748	3569233	2261	
<u>C 04712</u>	CUB	MON	0 HARVARD PETROLEUM COMPANY LLC	LE	<u>C 04712 POD1</u>	NA			1 4 1	31	23S	32E	620917	3570289	2890	
<u>C 00225 A</u>	CUB	IRR	8.4 GREGORY ROCKHOUSE RANCH	ED	<u>C 02405</u>			Shallow	4 1	02	24S	31E	617690	3568631*	3876	
<u>C 01246 AO</u>	CUB	IRR 4	47.82 CATHLEEN MC INTIRE	ED	<u>C 02405</u>			Shallow	4 1	02	24S	31E	617690	3568631*	3876	
<u>C 02405</u>	C	PRO	0 TEXACO EXPLORATION & PROD. IND	ED	<u>C 02405</u>			Shallow	4 1	02	24S	31E	617690	3568631*	3876	
<u>C 02452</u>	C	PRO	0 TEXACO EXPLORATION & PROD INC.	ED	<u>C 02405</u>			Shallow	4 1	02	24S	31E	617690	3568631*	3876	
				ED	<u>C 02452</u>				4 1	02	24S	31E	617690	3568631*	3876	
<u>C 02576</u>	C	PRO	0 SONAT EXPLORATION COMPANY	ED	<u>C 02405</u>			Shallow	4 1	02	24S	31E	617690	3568631*	3876	
<u>C 02464</u>	C	PRO	0 COMMISSIONER OF PUBLIC LANDS	ED	<u>C 02464</u>			Shallow	2 3 1	02	24S	31E	617644	3568581	3904	
<u>C 02460</u>	C	PRO	0 SONAT EXPLORATION	ED	<u>C 02460</u>			Shallow	3	02	24S	31E	617496	3568022*	3925	
				ED	C 02460 POD2			Shallow	3	02	24S	31E	617496	3568022*	3925	
<u>C 02901</u>	C	PUB	0 B & H MAINTENANCE & CONST.	ED	<u>C 02901</u>				3 4 1	02	24S	31E	617589	3568530*	3943	
<u>C 03529</u>	C	STK	0 U.S. DEPT. OF INTERIORBLM	LE	C 03529 POD1				2 4 3	29	23S	32E	622651	3571212	3986	
<u>C 04220</u>	CUB	MON	0 CHEVRON N AMERICA EXPL & PROD	ED	C 04220 POD1	NA			2 3 3	11	24S	31E	617401	3566340	4123	
<u>C 02602</u>	C	SAN	0 POGO PRODUCING COMPANY	ED	<u>C 02602</u>				2 2	35	23S	31E	618471	3570650*	4333	
<u>C 03575</u>	C	STK	0 ANNETTE MCCCLOY	LE	C 03575 POD1				1 2 1	15	24S	32E	625637	3566103	4463	
<u>C 03527</u>	C	STK	3 ANNETTE MCCLOY	LE	C 03527 POD1				1 2 3	03	24S	32E	625769	3568487	4516	
<u>C 02350</u>	CUB	STK	3 LIMESTONE LIVESTOCK LLC	ED	<u>C 02350</u>				4 3	10	24S	32E	625826	3566333*	4583	
<u>C 04665</u>	CUB	EXP	0 ENSOLUM	LE	<u>C 04665</u>	NA			1 1 2	30	24S	32E	621349	3562798	4636	
<u>C 04576</u>	CUB	EXP	0 KB SERVICES LLC	ED	<u>C 04576 POD1</u>	NA		Artesian	1 2 1	23	24S	31E	617699	3564324	4816	
<u>C 01882</u>	С	STK	0 BUREAU OF LAND MANAGEMENT US DEPT OF INTERIOR	LE	<u>C 01882</u>				1 1 4	03	24S	32E	626103	3568453*	4834	
<u>C 03528</u>	C	STK	3 NGL WATER SOLUTIONS PERMIAN	LE	<u>C 03528 POD1</u>			Shallow	1 1 2	15	24S	32E	626040	3566129	4842	

Record Count: 25

UTMNAD83 Radius Search (in meters):

Easting (X): 621377 **Northing (Y):** 3567435 **Radius:** 5000

Sorted by: Distance

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

2/25/23 4:13 PM ACTIVE & INACTIVE POINTS OF DIVERSION



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X

C 03530 POD1

3 4 3 07 24S 32E

620886 3566

3566156

Driller License:

Driller Company:

Driller Name:

Drill Start Date:

Drill Finish Date:

Plug Date:

Log File Date:

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

6.00

Depth Well:

550 feet

Depth Water:

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability for any particular purpose of the data.

2/25/23 4:20 PM

POINT OF DIVERSION SUMMARY



Mesa Verde 7 Federal #002 Wetland 4,188 feet



February 25, 2023

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

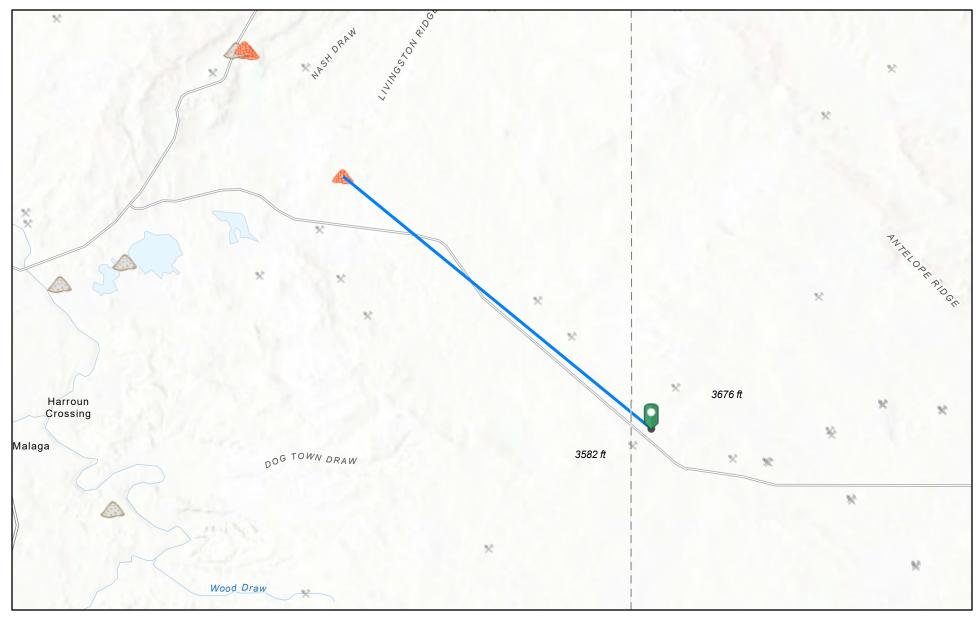
Lake

Riverine

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.

Mesa Verde 7 Federal #2 - Mine 68,277ft



1/26/2024, 1:43:24 PM

Registered Mines

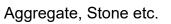
Aggregate, Stone etc.

Aggregate, Stone etc.



Potash

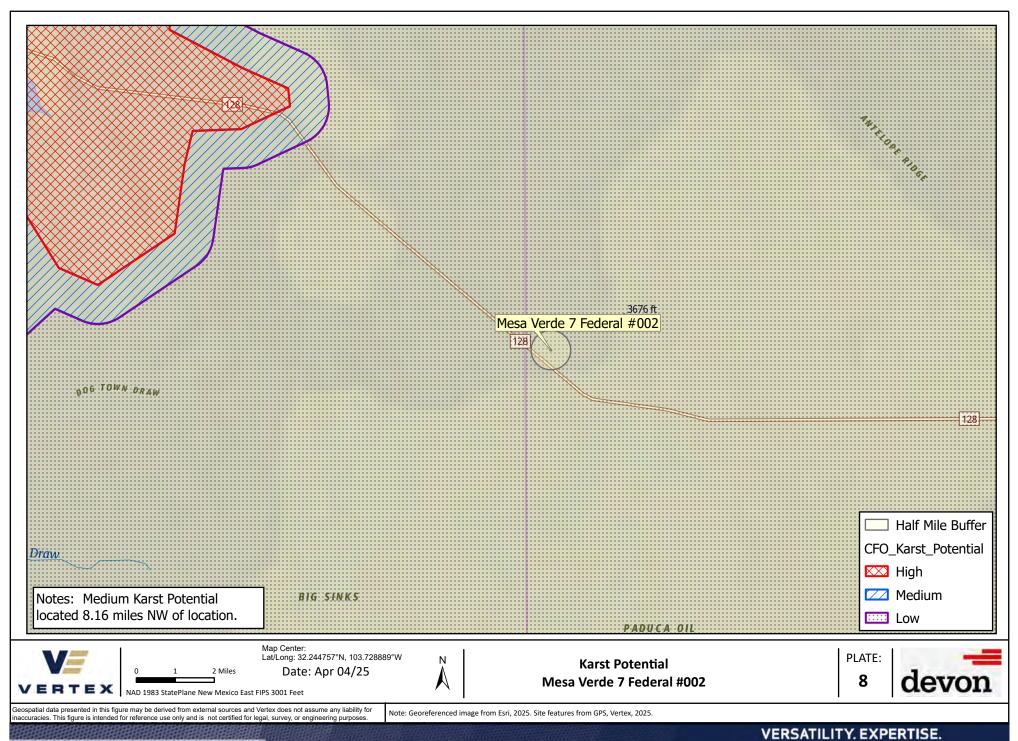
Salt





1:233,976 0 1.75 3.5 7 mi 0 2.75 5.5 11 km

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

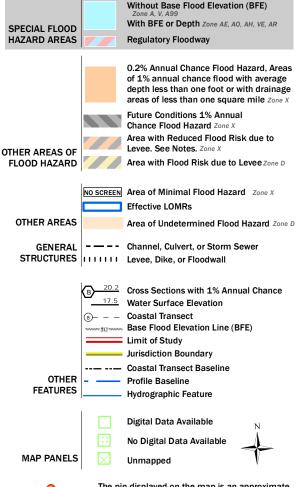


National Flood Hazard Layer FIRMette



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



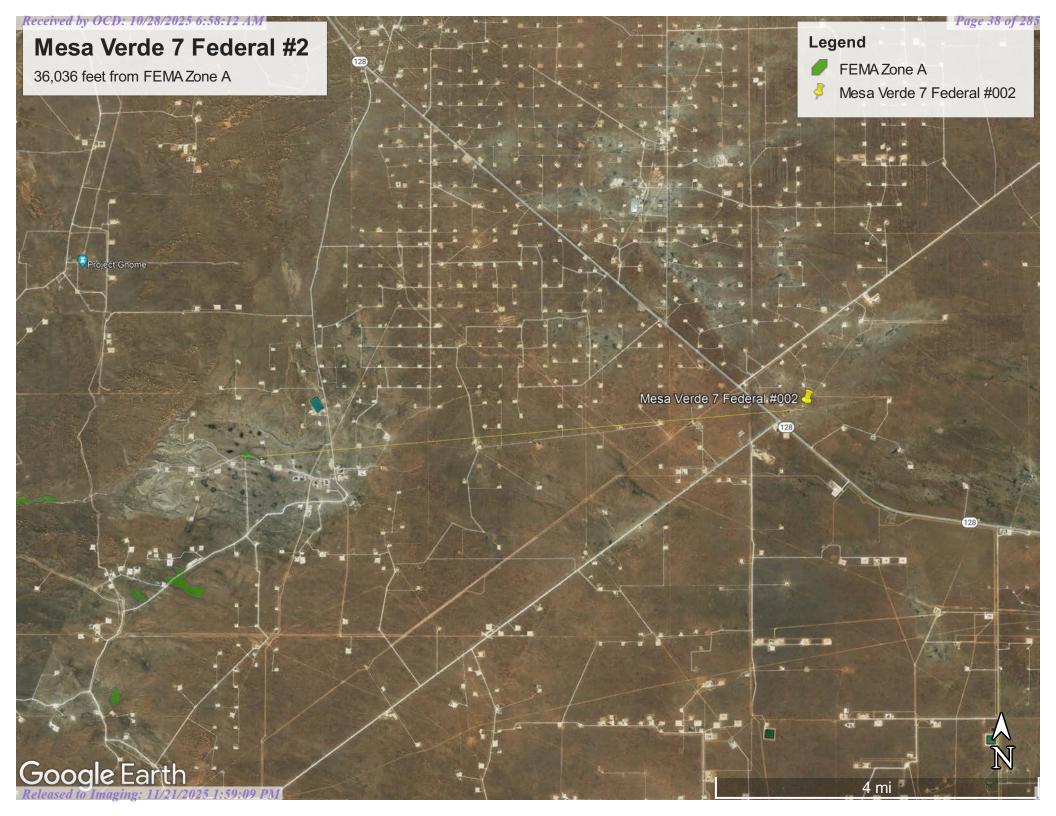
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/3/2020 at 5:04:21 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.







Department of Agriculture

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**

Mesa Verde 7 Federal 2



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2 053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

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Lea County, New Mexico	
PU—Pvote and Maliamar fine sands	10

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



MAP LEGEND

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Water Features

Transportation

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Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

-

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

യ

Blowout

 \boxtimes

Borrow Pit

Ж

Clay Spot

 \Diamond

Closed Depression

36

Gravel Pit

..

Gravelly Spot

0

Landfill

٨.

Lava Flow

Marsh or swamp

@

Mine or Quarry

22

Miscellaneous Water

0

Perennial Water

 \vee

Rock Outcrop

~

Saline Spot Sandy Spot

...

Severely Eroded Spot

_

Sinkhole

8

Slide or Slip

28

Sodic Spot

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 17, Jun 8, 2020

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
PU Pyote and Maljamar fine sands		7.2	100.0%
Totals for Area of Interest		7.2	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

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 capacity: Low (about 5.1 inches)

Interpretive groups

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

Hydrologic Soil Group: A

Ecological site: R042XC003NM - 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 capacity: Low (about 5.6 inches)

Interpretive groups

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

Hydrologic Soil Group: B

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent

Ecological site: R042XC022NM - Sandhills

Hydric soil rating: No



Ecological site R042XC022NM Sandhills

Accessed: 05/07/2021

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.

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site occurs on plains. The soils are calcareous sandy eolian deposits derived from sedimentary rock. Land form of sand dunes or hillslopes. Slopes average 5 to 35 percent. Slopes are complex as the steeper slopes are shorter in length while the more gentle slopes are longer in length. Direction of slopes vary and is usually not significant. Elevations range from 2,842 to 4,500 feet.

Table 2. Representative physiographic features

Landforms	(1) Plain (2) Hill (3) Dune
Flooding frequency	None
Ponding frequency	None

Elevation	2,842-4,500 ft
Slope	5–35%
Aspect	Aspect is not a significant factor

Climatic features

The climate of the area is "semi-arid continental". 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 180 to 220 days. The last killing frost is in late March or early April, and the first killing frost is in late 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. Because of the texture of this soil, most rainfall is effective. Strong winds blow from the west and southwest from January through June which accelerates soil drying at a time 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)	220 days
Freeze-free period (average)	240 days
Precipitation total (average)	13 in

Influencing water features

This site is not influenced by wetlands or streams.

Soil features

The soils of this site are deep and very deep. Surface textures are fine sand or loamy fine sand. Subsoilis a fine sand or loamy fine sand to a depth of 60 inches or more. These soils have less than 10 percent clay content. These soils are subject to severe wind erosion if vegetative cover is not adequate.

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

Characteristic Soils Are:

Kermit

Aguena

Table 4. Representative soil features

Surface texture	(1) Fine sand (2) Loamy fine sand (3) Loamy sand
Family particle size	(1) Sandy
Drainage class	Well drained to excessively drained
Permeability class	Rapid to very rapid
Soil depth	60–72 in
Surface fragment cover <=3"	0–5%

Surface fragment cover >3"	0%
Available water capacity (0-40in)	3–9 in
Calcium carbonate equivalent (0-40in)	0–7%
Electrical conductivity (0-40in)	0–2 mmhos/cm
Sodium adsorption ratio (0-40in)	0–1
Soil reaction (1:1 water) (0-40in)	7.4–8.4
Subsurface fragment volume <=3" (Depth not specified)	0–5%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

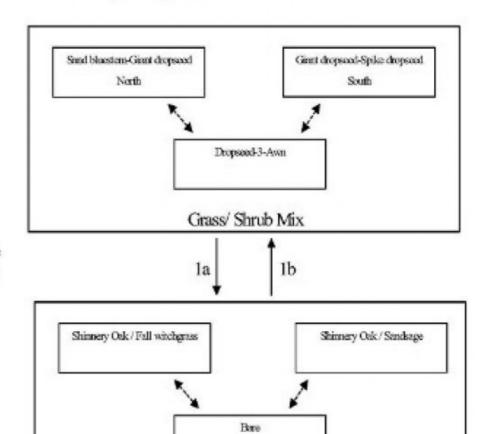
Overview:

The Sandhills site occurs adjacent to or intergrades with the Deep Sand site. The Sandhills site is differentiated from deep sand sites by a steeper average slope, and an increased depth to a soil texture change. Sandhills slopes are usually greater than eight percent, and the soil profile is a fine sand or loamy fine sand to a depth greater than 60 inches. Deep Sand sites have slopes less than eight percent and a textural change can occur at less than 60 inches. The historic plant community of the Sandhills site is a mixture of grasses, shrubs and forbs, with tall grasses dominating in aspect. During years of abundant spring moisture, tall growing forbs occasionally reach aspect dominance. Sand bluestem and giant dropseed are the dominant grasses, with Havard panicum and dropseeds as sub-dominants. Sand shinnery oak and soapweed yucca are the dominant shrubs. Drought favors shinnery by impacting grasses more severly. Shinnery oak's ability to store water and carbohydrates, and its strong negetive leaf water potential enable it to out compete grasses during drought conditions. Changes in historical fire regimes, competition by shrubs, and overgrazing may contribute to this site becoming dominated by sand shinnery oak.

State and transition model

Plant Communities and Transitional Pathways (diagram)

MLRA-42, SD-3, Sandhills



Sand Shinnery Oak-Dominated

 Above average summer rainfall, fire suppression, competition, over grazing, crought

1b. Brush control, Prescribed grazing

Figure 4.

State 1 Grass/Shrub Mix

Community 1.1 Grass/Shrub Mix

Grass/Shrub Mix: The historic plant community in the northern part of the resource area (SD-3) is dominated by sand bluestem and giant dropseed, with Havard panicum as a sub-dominant. Primary grass dominance may gradually shift moving south across the resource area to a community dominated by giant dropseed and spike dropseed, with mesa dropseed as the sub-dominant grass species. Throughout the resource area sand shinnery oak and soapweed yucca are the dominant shrubs with sand sagebrush as the sub-dominant. As retrogression within this state occurs, plants such as sand bluestem, giant dropseed, Havard panicum, plains bristlegrass, sand paspalum, and fourwing saltbush decrease. This results in an increase in spike dropseed, sand dropseed, mesa dropseed, threeawns sand shinnery oak, and sand sagebrush. Continued loss of grass cover may result in a transition to a sand shinnery oak dominated state.

Diagnosis: Sand bluestem or giant dropseed are dominant or present in substantial amounts. Spike dropseed, sand dropseed or mesa dropseed may be dominant in some instances. Grass cover is variable, shifting sands and large irregular dunes produce considerable variation in the spatial distribution and composition of the plant community. Grass cover is not continuous, but is fairly uniform across the more stable areas. Large natural bare areas or blowouts are a common feature on the less stable portions of the Sandhills site.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	
Grass/Grasslike	360	585	810
Shrub/Vine	120	195	270
Forb	120	195	270
Total	600	975	1350

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	0%
Grass/grasslike foliar cover	10-15%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	20-25%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	45-60%

Figure 6. Plant community growth curve (percent production by month). NM2822, R042XC022NM Sandhills HCPC. R042XC022NM Sandhills HCPC warm season plant community.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	1	3	4	10	10	25	30	12	5	0	0

State 2 Sand Shinnery Oak-Dominated

Community 2.1 Sand Shinnery Oak-Dominated

Additional States:

Sand Shinnery Oak -Dominated: Sand shinnery oak is the dominant species and in dense stands may reduce forage production by as much as 90 percent.1 It often forms a mosaic of dense thickets interspersed with occasional motts of taller oaks, large areas of bare ground, and concentrations of sand sagebrush. Sand shinnery oak is well suited to deep sandy soils. The height and cover of oak decreases as sand depth decreases or clay content increases. The aggressive nature of fall witchgrass and continued loss of more palatable grasses and threeawn species may result in a sand shinnery oak-fall witchgrass community. Burning may result in a community with very little grass or sand shinnery oak (bare). Sand shinnery oak usually recovers due to its ability to sprout aggressively following fire.

Diagnosis: Sand shinnery oak is the dominant species. Grass cover is sparse and patchy. Shrub cover is high. Blowouts and bare areas are common, however, high shrub cover mediates erosion.

Transition to Sand Shinnery Oak Dominated (1a): Climate may play a role in facilitating the spread sand shinnery oak. It is best adapted to those areas that receive and average of 16 inches of annual rainfall; it may therefore gain a competitive advantage during cycles of above average precipitation. Sand shinnery oak spreads mainly by elongation of rhizomes, but in some instances will reproduce by seed. The establishment and survival of seedlings is limited to those years with abundant rainfall during the months of July and August. If fire historically played a part in suppressing the density and distribution of shrubs in desert grasslands, then fire suppression may facilitate a shift to shrub dominance.2 Competition for resources between grasses and shrubs may be a factor in increased densities of sand shinnery oak. 1 Sand shinnery oak has an extensive system of underground roots and stems that can uptake and store water for growth during drier periods, allowing it to increase, at times when grasses decrease. Evidence of competitive suppression of grasses is indicated by increases in herbaceous vegetation following chemical control of sand shinnery oak.1 However, this increase may in part be due to a flush of nutrients made available from the decomposing biomass of woody roots and stems. Loss of grass cover due to overgrazing or drought may give a competitive advantage to sand shinnery oak.

Key indicators of approach to transition:

- * A decrease in the tall grass species and the associated increase in threeawns may be indicative of the initial stage of transition to a shrub-dominated state.
- * Increased cover of sand shinnery oak.

Transition back to Grass/Shrub Mix (1b) Chemical brush control is an effective means of controlling sand shinnery oak and sagebrush. Where large areas of chemical control are planned, increased erosion and the effect on loss of wildlife habitat should be considered. Prescribed grazing will help ensure an adequate deferment period to allow grass recovery and subsequent proper forage utilization. There have been studies that suggest long term browsing by goats can reduce sand shinnery oak, altering production in favor of grasses.3

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	<u> </u>			
1				195–293	
	sand bluestem	ANHA	Andropogon hallii	195–293	_
	Havard's panicgrass	PAHA2	Panicum havardii	195–293	-
	giant dropseed	SPGI	Sporobolus giganteus	195–293	_
2		<u> </u>	-	146–195	
	spike dropseed	SPCO4	Sporobolus contractus	146–195	_
	sand dropseed	SPCR	Sporobolus cryptandrus	146–195	_
	mesa dropseed	SPFL2	Sporobolus flexuosus	146–195	_
3		•		49–98	
	thin paspalum	PASE5	Paspalum setaceum	49–98	_
	plains bristlegrass	SEVU2	Setaria vulpiseta	49–98	_
4		•	•	29–49	
	threeawn	ARIST	Aristida	29–49	_
	mat sandbur	CELO3	Cenchrus longispinus	29–49	_
	flatsedge	CYPER	Cyperus	29–49	_
5		•	•	29–49	
	Grass, perennial	2GP	Grass, perennial	29–49	_
Shrub	/Vine	,	•	•	

6	T			49–98	
ь	Harrand a str		0		
	Havard oak	QUHA3	Quercus havardii	49–98	
7	<u> </u>	T	I., ,	49–98	
_	soapweed yucca	YUGL	Yucca glauca	49–98	
8			T	29–49	
	sand sagebrush	ARFI2	Artemisia filifolia	29–49	
9		T	T	20–49	
	fourwing saltbush	ATCA2	Atriplex canescens	20–49	_
10				20–49	
	rabbitbrush	CHRYS9	Chrysothamnus	20–49	_
11				20–49	
	Shrub (>.5m)	2SHRUB	Shrub (>.5m)	20–49	_
Forb					
12				20–49	
	featherplume	DAFO	Dalea formosa	20–49	_
13		<u>I</u>	!	29–49	
	sundrops	CALYL	Calylophus	29–49	_
	phlox heliotrope	HECO5	Heliotropium convolvulaceum	29–49	_
	sharpleaf penstemon	PEAC	Penstemon acuminatus	29–49	_
14		l		20–49	
	touristplant	DIWI2	Dimorphocarpa wislizeni	20–49	_
	lemon beebalm	MOCI	Monarda citriodora	20–49	_
16		ı	l	29–49	
	hymenopappus	HYMEN4	Hymenopappus	29–49	_
	blazingstar		Mentzelia	29–49	_
	threadleaf ragwort	SEFLF	Senecio flaccidus var. flaccidus	29–49	_
17				20–49	
	sunflower	HELIA3	Helianthus	20–49	_
18			<u> </u>	20–49	
	buckwheat	ERIOG	Eriogonum	20–49	
19		1200		20–49	
	Forb (herbaceous, not grass nor grass-like)	2FORB	Forb (herbaceous, not grass nor grass-like)	20–49	

Animal community

This site provides habitat which support a resident animal community that is characterized by pronghorn antelope, black-tailed jackrabbit, Ord's kangaroo rat, Northern grasshopper mouse, Southern Plains woodrat, swift fox, roadrunner, meadowlark, lark bunting, ferruginous hawk, lesser prairie chicken, mourning dove, scaled quail, sand dune lizard, marbled whiptail, ornate box turtle, bullsnake and Western diamondback rattlesnake. Grasshopper and vesper sparrows utilize the site during migration. The ferruginous hawk sometimes nests on dunes associated with the site. White-tailed deer are also sometimes associated with this site (Mescalero Sands). Where mesquite invades, resident species of birds such as white-necked raven, roadrunner, pyrrhuloxia, mourning dove, and Harris hawk nest. Where sand hummocks form around shrubs, rodent populations and their predators increase. Fourwing saltbush, shinnery oak, sand sagebrush, and mesquite provide protective cover for scaled quail. Seed, green herbage, and fruit from a variety of grasses, forbs, and shrubs provide food for a number of birds and mammals, including mourning dove, scaled quail, lessor prairie chicken and antelope.

Hydrological functions

The runoff curve numbers are determined by field investigations using hydrolic cover conditions and hydrologic soil groups.

Hydrologic Interpretations
Soil Series------ Hydrologic Group
Kermit------ A
Aquena------ A

Recreational uses

This site offers recreation potential for hiking, horseback riding, nature observation and photography. This site also offers opportunities for hunting of such species as quail, dove and antelope.

Mechanical, off-road vehicle use by dune buggies, four wheelers, or motor bikes is site-destructive, resulting in severe soil movement by wind erosion. Off-road vehicle use should be confined to those areas which are already deterioriated and where intensive management for soil protection can be practiced.

During years of abundant spring moisture, this site desplays a colorful array of wildflowers during May and June. A few showy summer and fall flowers also occur.

Wood products

The plant community associated with this site affords little or no wood products.

Other products

This site is suitable for grazing during all seasons of the year by all kinds and classes of livestock. Where shinnery oak has increased considerably above the amount in the potential plant community cattle loss can occur if grazed during the late bud and early leaf stage. This site responds well to an integrated brush management and grazing management. Brush management is inappropriate in occupied or potential habitat for sand dune lizard. Mismannagement of this site will cause a decrease in Harvard panicum, sand bluestem, giant dropseed, plains bristlegrass, sand paspalum and fourwing saltbush. There will be a corresponding increase in dropseeds, sand sagebrush and shinnery oak. When shinnery oak is not a problem, this site responds best to a system of mangement that rotates the season of use. Grazing management plans should be design to leave adequate residual cover for lesser prairie chicken nesting.

Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month

Similarity Index---- Ac/AUM 100 - 76----- 2.0 - 4.0 75 - 51---- 3.0 - 6.5 50 - 26---- 5.0 - 12.0 25 - 0---- 12.0 - +

Inventory data references

Data collection for this site was done in conjunction with the progressive soil surveys within the Southern Desertic Basins, Plains and Mountains (SD-3) Major Land Resource Area of New Mexico. This site has been mapped and correlated with soils in the following soil surveys: South Chaves, Eddy, Lea and Otero Counties.

Other references

Literature Cited:

- 1. Sears, W.E., C.M. Britton, D.B. Wester, and R.D. Pettit. 1986. Herbicide conversion of a sand shinnery oak (Quercus havardii) community: effects on biomass. J. Range. Manage. 39: 399-403.
- 2. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fire Sciences Laboratory (2002, September). Fire Effects Information System, [Online]. Available: http://www.fs.fed.us/database/feis/[accessed 1/07/02].
- 3. Villena, F. and J.A. Pfister. 1990. Sand shinnery oak as forage for Angora and Spanish goats. J. Range. Manage. 43: 116-122.

Contributors

David Trujillo Don Sylvester

Rangeland health reference sheet

Interpreting Indicators of Rangeland Health is a qualitative assessment protocol used to determine ecosystem condition based on benchmark characteristics described in the Reference Sheet. A suite of 17 (or more) indicators are typically considered in an assessment. The ecological site(s) representative of an assessment location must be known prior to applying the protocol and must be verified based on soils and climate. Current plant community cannot be used to identify the ecological site.

Author(s)/participant(s)	
Contact for lead author	
Date	
Approved by	
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

Indicators

1.	Number and extent of rills:
2.	Presence of water flow patterns:
3.	Number and height of erosional pedestals or terracettes:
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):
5.	Number of gullies and erosion associated with gullies:

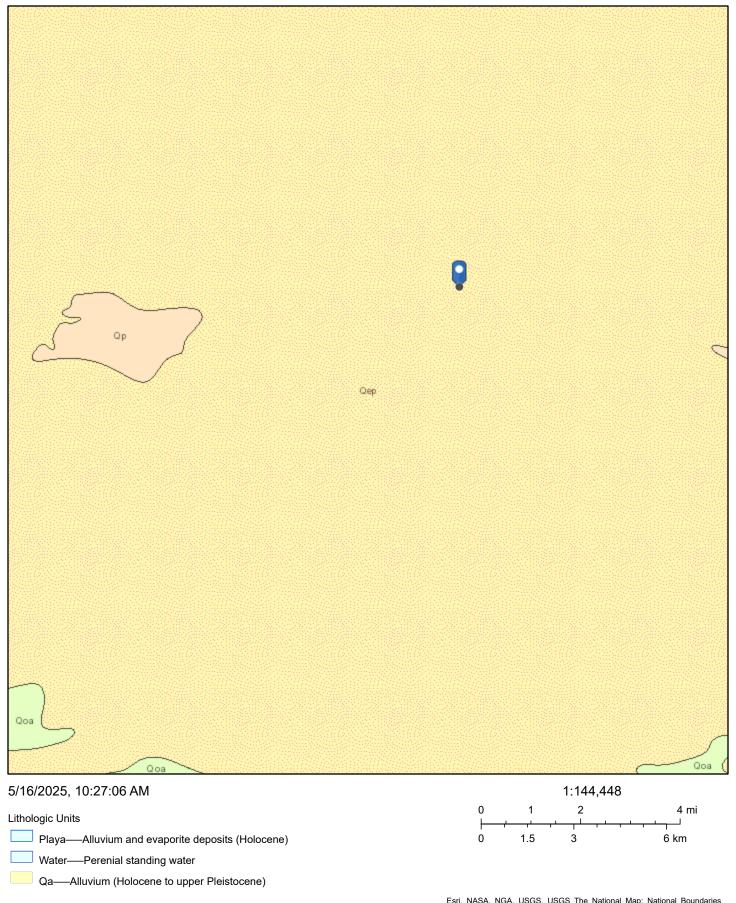
Released to Imaging: 11/21/2025 1:59:09 PM

6. Extent of wind scoured, blowouts and/or depositional areas:

7.	Amount of litter movement (describe size and distance expected to travel):
8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values):
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness):
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff:
11.	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site):
12.	Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or live foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):
	Dominant:
	Sub-dominant:
	Other:
	Additional:
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence):
14.	Average percent litter cover (%) and depth (in):
15.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production):
16.	Potential invasive (including noxious) species (native and non-native). List species which BOTH characterize degraded states and have the potential to become a dominant or co-dominant species on the ecological site if their future establishment and growth is not actively controlled by management interventions. Species that become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not invasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state for the ecological site:

17. Perennial plant reproductive capability:

Mesa Verde 7 Federal #002 Geology



Esri, NASA, NGA, USGS, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road data;

APPENDIX B – Daily Field and Sampling Reports

VERTEX

Client: Devon Energy Inspection Date: 2/22/2023

Corporation

Site Location Name: Mesa Verde 7 Federal 2 Report Run Date: 2/22/2023 11:17 PM

(spill at Mesa Verde 7 Fed

1 Battery)

Client Contact Name: Wes Matthews API #: 30-025-32399

Client Contact Phone #: (575) 748-0176

Unique Project ID Project Owner:

Project Reference # Project Manager:

Summary of Times

Arrived at Site 2/22/2023 10:19 AM

Departed Site 2/22/2023 4:30 PM

Field Notes

15:26 Arrived on site and filled out JSA

15:27 Walked around the site to see where I will place Boreholes for site delineation

15:30 At 10:30 I began digging Boreholes 1-4 at 0', 2', and 4' depths

15:31 All samples collected were field screened on EC meter

All samples are clean on Chlorides

15:32 All samples were field screened on Petroflag unit

BH23-03 at 0' and all samples for BH24-04 are Hot for TPH

15:34 All samples have been jarred and placed on ice.

All samples are ready for lab

15:35 Upon arrival I noticed oil staining throughout the tank battery.



Next Steps & Recommendations

1 Continue site delineation



Site Photos



BH23-01 Facing East



Viewing Direction: Southeast



BH23-03 Facing West



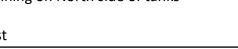
BH23-04 Facing North





Visible staining on North side of tanks

Facing East





Staining on East side of tanks

Facing Northwest



South side of tanks Facing East



Tank is point of release Staining on equipment and soil

Facing Southwest





Stained equipment Facing Southeast



Daily Site Visit Signature

Inspector: Jacob Reta

Signature: (



Client: Devon Energy Inspection Date: 2/23/2023

Corporation

Site Location Name: Mesa Verde 7 Federal 2 Report Run Date: 2/23/2023 10:40 PM

(spill at Mesa Verde 7 Fed

1 Battery)

Client Contact Name: Wes Matthews API #: 30-025-32399

Client Contact Phone #: (575) 748-0176

Unique Project ID Project Owner:

Project Reference # Project Manager:

Summary of Times

Arrived at Site 2/23/2023 9:49 AM

Departed Site 2/23/2023 3:30 PM

Field Notes

14:49 Arrived on site and filled out JSA

14:49 Today's focus was to continue site delineation with Vertical samples

14:50 At 10:30 I began digging BH23-05 for vertical sampling

14:51 Samples were collected at 0', 2', 4', 6', and 8' depths

14:52 At 11:30 I placed another Borehole (Bh23-06) on the south side of the tanks

14:52 Samples were collected from BH23-06 at 0', 2', and 4' depths

14:52 All samples were field screened on EC meter

All samples are clean on chlorides

VERTEX

14:55 All samples were Field screened on Petroflag unit

BH23-04 at 6' and 8' are clean on TPH

All BH23-05 samples are hot on TPH

All BH23-06 samples are hot on TPH

14:54 All samples have been jarred and ready for lab

Next Steps & Recommendations

1 Continue vertical delineation



Site Photos



BH23-05 Facing South



BH23-04 Facing West



Overview of South side of tanks Facing East



BH23-06 Facing West





Overview of site Facing Northwest



Overview of site Facing Southwest

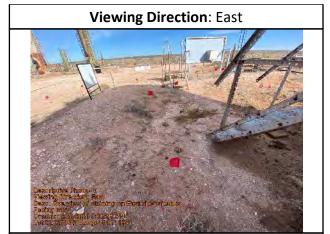


Overview or staining on North side of tanks Facing West



Overview of staining on East side of tanks
Facing Southeast





Overview of staining on East side of tanks

Facing east



Overview of north Side of tanks Facing Southeast



Daily Site Visit Signature

Inspector: Jacob Reta

Signature:



Client: Devon Energy Inspection Date: 2/24/2023

Corporation

Site Location Name: Mesa Verde 7 Federal 2 Report Run Date: 2/25/2023 12:00 AM

(spill at Mesa Verde 7 Fed

1 Battery)

Client Contact Name: Wes Matthews API #: 30-025-32399

Client Contact Phone #: (575) 748-0176

Unique Project ID Project Owner:

Project Reference # Project Manager:

Summary of Times

Arrived at Site 2/24/2023 9:11 AM

Departed Site 2/24/2023 3:45 PM

Field Notes

13:56 Arrived on site with L. Pullman and signed JSA

14:10 Today's focus is to continue site delineation with vertical samples

14:01 At 10:40 Pullman and I began to further delineate BH23-05 at 10' and 12' depths

Samples were collected at these depths

14:03 At 11:45 BH23-07 was dug and samples were collected at 0', 2', 4', 6' and 7'

14:03 All samples collected today were field screened on EC meter

All samples are clean on Chlorides



14:05 All samples collected today were field screened on Petroflag unit

BH23-07 at 0' and 2' were hot on TPH

All other samples are clean for TPH

14:05 All samples collected are jarred and ready to be sent to lab

14:11 Geoprobe assisted with sampling today

Next Steps & Recommendations

1 Continue horizontal delineation to on west side of the site



Site Photos

Viewing Direction: West



BH23-05 vertical delineation

Facing West

Viewing Direction: Southwest



Overview of site Facing Southwest



BH23-07 Facing South

Viewing Direction: Northwest



Overview of site Facing Northwest





Overview of site Facing East



Overview of site Facing Southeast



Daily Site Visit Signature

Inspector: Jacob Reta

Signature: ¿

Client Contact Phone #:

Unique Project ID

Daily Site Visit Report



Client:	Devon Energy Corporation	Inspection Date:	4/12/2023
Site Location Name:	Mesa Verde 7 Federal 2 (spill at Mesa Verde 7 Fed 1 Battery)	Report Run Date:	4/12/2023 9:48 PM
Client Contact Name:	Wes Matthews	API#:	30-025-32399

Unique Project iD	Project Owner.	
Project Reference #	Project Manager:	
	<u> </u>	

Draiact Owner

Summary of Times		
Arrived at Site	4/12/2023 6:49 AM	
Departed Site	4/12/2023 1:06 PM	

Field Notes

- **6:59** Completed JSA on arrival. On site to continue horizontal delineation.
- 7:47 Mapped additional borehole locations in Arc Collector. Swept borehole areas with magnetic locator prior to ground disturbance.
- 12:24 Advanced BH23-10, BH23-11, BH23-12, and BH23-13 to attempt horizontal delineation. Collected samples at 0, 2, and 4 feet bgs.
- 12:25 Field screening results were all below NMOCD strictest criteria for chloride and TPH. Horizontal delineation complete pending laboratory results.
- 13:02 Remapped release area based on field screening results.

(575) 748-0176

Next Steps & Recommendations

1



Site Photos



Mesa Verde 7 Battery

NMNM68084

SLISEC, 7-124S-R32E 660' FNL 8. 1980' FEL

LEA COUNTY, NEW MEXICO

LAT, N 32' 14' 14-48916'' LONG, W 103' 42' 42.03336''

MARWAND PETROLEUM CD. LLG THE

North of containment facing south.

Viewing Direction: North



South of fence around containment facing north. Advanced BH23-11 south of tanks.

Viewing Direction: North



South of fence around containment facing north. Advanced BH23-10 southeast of tanks.

Viewing Direction: East



East side of west tank battery facing east. Advanced BH23-12 on edge of containment immediately west of release.







North and east of fence around containment facing south. Advanced BH23-13 north of tanks.



Northeast corner of release area facing east.

Viewing Direction: East



Southeast corner of release area facing east.

Viewing Direction: Northwest



Southeast corner of release area facing northwest.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:



Client: Devon Energy Inspection Date: 10/24/2023

Corporation

Site Location Name: Mesa Verde 6 Federal CTB Report Run Date: 10/25/2023 1:02 AM

API#:

Client Contact Name: Dale Woodall

Client Contact Phone #: 405-318-4697

Unique Project ID Project Owner:

Project Reference # Project Manager:

Summary of Times

Arrived at Site 10/24/2023 2:00 PM

Departed Site 10/24/2023 3:50 PM

Field Notes

14:25 Arrive on site, drillers on site, conduct safety meeting

14:34 Drillers set up and begin drilling down 105 ft bgs

15:25 Drillers reach max depth of 105 ft bgs. Drillers begin putting casing down well

15:42 Driller send interface probe down well for measurements. Probe reads 105ft bgs. No water in well

Next Steps & Recommendations

1



Site Photos





Photo taken west facing east. Site name placard

Viewing Direction: North



Photo taken north facing south. Encompasses entire pad (Drilling work happening on southeast corner of pad)

Viewing Direction: West



Photo taken west facing east (encompasses entire pad)

Viewing Direction: Southeast



Southeast facing west, drillers begin going down 105 ft bgs







Photo taken north east facing southwest.

Drillers reach max depth of 105 ft bgs and begin putting casing on



Photo taken southwest facing north.
Interface probe measurement 105 ft bgs
(Minus casing)





Photo taken southwest facing north. Height of casing

Viewing Direction: Southwest



Photo taken southwest facing north. Well has been coned and sealed



Daily Site Visit Signature

Inspector: Alexis Castro

Signature:



Client: Devon Energy Incident ID #:

Corporation

Site Location Name: Mesa Verde 7 Federal 2 API #: 30-025-32399 (spill at Mesa Verde 7 Fed

1 Battery)

Inspection Date: 9/3/2025

Summary of Times	
Arrived at Site	9/3/2025 7:40 AM
Departed Site	9/3/2025 3:48 PM



Site Sketch

Site Sketch



Field Notes

- 8:56 Completed saftey paperwork upon arrival
- **8:56** Met with plains pipeline to discuss the location of their line
- 8:57 Marked out the location with GPS
- 8:57 Both Kelly and Vertex personal conducted a secondary sweep inside the marked area
- 9:11 Neither secondary sweep could effectively identify line with the metal interference. It was decided to call the Harvard 811 people back to site
- 9:16 Dig crews 811 was confirmed to be active before they broke ground

Next Steps & Recommendations

1



Site Photos

Viewing Direction: West



Area flagged out before excavation began

Viewing Direction: West



Area excavated by end of day in the southeast corner

Viewing Direction: South



Area excavated in the northeast area by end of day

Viewing Direction: Southwest



Northern area approved for mechanical excavation by Brice pending additional saftey concerns





Southern area approved for mechanical excavation by Brice pending additional saftey and access concerns



Eastern area was required to be hand dug by Brice



Daily Site Visit Signature

Inspector: Katrina Taylor

Signature:



Client: Devon Energy Incident ID #:

Corporation

Site Location Name: Mesa Verde 7 Federal 2 API #: 30-025-32399

(spill at Mesa Verde 7 Fed 1 Battery)

Inspection Date: 9/5/2025

Summary of Times	
Arrived at Site	9/5/2025 11:34 AM
Departed Site	9/5/2025 1:45 PM



Site Sketch

Site Sketch



Field Notes

- 11:35 Completed saftey paperwork upon arrival
- 11:59 Checked on the excavation progress and determined they were just under 50% done
- 13:45 The east side of the excavation is complete, the north side is near done, and the south currently untouched

Next Steps & Recommendations

1 When the crew finishes excavation of the northern side, samples of the east and north can be taken to confirm if the remediation extent is sufficient



Site Photos

Viewing Direction: West



Excavation progress in the northeast

Viewing Direction: Southwest



Excavation process in the northern area

Viewing Direction: West



Excavation progress in the east

Viewing Direction: West



Trench done on the north side





Where the crew were at at EOD



Daily Site Visit Signature

Inspector: Katrina Taylor

Signature:



Client: Devon Energy Incident ID #:

Corporation

Site Location Name: Mesa Verde 7 Federal 2

Inspection Date: 9/8/2025

Summary of Times

Arrived at Site 9/8/2025 12:29 PM

Departed Site 9/8/2025 4:36 PM

Field Notes

15:37 JSA has been filled out by Vertex Resource Environmental Technician and Kelley Oilfield Services, Inc.

API#:

13:19 Purpose: spot check to see if further excavation is required

Next Steps & Recommendations

1



Site Photos

Viewing Direction: Northeast



Site view of excavation in front (North) of the tanks at 2ft. Image taken from the Northeast corner.

Viewing Direction: Southwest



Site view of excavation east of the tanks at 2ft. Image taken from the Northeast corner.







Site view of excavation in front (North) of the tanks at 2ft. Image taken from the west end of the excavation/tank area.

Viewing Direction: East



Site view of excavation view behind (South) of the tanks at 2ft. Image taken from the Southeast corner.

Viewing Direction: Southwest



Site view of excavation in front (North) of the tanks at 2ft. Image taken from the Northeast corner.

Viewing Direction: Southeast



Site view of excavation in front (North) of the tanks at 2ft. Image taken from the northwest corner. Area in the green box will be scraped to 2.5'





Daily Site Visit Signature

Inspector: Sharon Minnix

Signature:



Client: Devon Energy Incident ID #:

Corporation

Site Location Name: Mesa Verde 7 Federal 2

Inspection Date: 9/9/2025

API #:

Summary of Times

Arrived at Site 9/9/2025 8:40 AM

Departed Site 9/9/2025 1:54 PM

Field Notes

13:28 JSA has been filled out by Vertex Resource Environmental Technician and Kelley Oilfield Services, Inc.

13:29 Northwest corner was scrapped to a depth of 2.5'

13:29 Collect confirmation samples. Field screen samples and jar them.

13:29 Jarred samples will be sent to lab

13:31 Excavation area is contained with orange web fencing

Next Steps & Recommendations

1



Site Photos



Site view of the backfill pile



Site view of excavation in front (North) of the tanks at 2ft and 2.5ft. Image taken from the northwest corner.







Site view of excavation in front (North) of the tanks at 2ft and 2.5ft. Image taken from the Inorthwest corner.

Viewing Direction: Northeast



Site view of excavation in front (North) of the tanks at 2ft and 2.5ft. Image taken from the west end.

Viewing Direction: Northeast



Site view of excavation in front (South) of the tanks at 2ft. Image taken from the Southwest corner.

Viewing Direction: Northeast



Site view of excavation in front (North) of the tanks at 2ft. Image taken from the northeast corner.





Site view of excavation in front (North) of the tanks at 2ft. Image taken from the northeast corner.



Site view of excavation west of the tanks at 2ft. Image taken from the northeast corner.



Daily Site Visit Signature

Inspector: Sharon Minnix

Signature:



Client: **Devon Energy** Incident ID #:

Corporation

Site Location Name: Mesa Verde 7 Federal 2

Inspection Date: 9/10/2025

Summary of Times

API#:

Arrived at Site 9/10/2025 10:51 AM

Departed Site 9/10/2025 1:41 PM

Field Notes

13:22 JSA has been filled out by Vertex Resource Environmental Technician

13:23 Purpose: to collect two base samples and two wall samples

13:23 Samples have been collected and field screened. Samples were jarred and will be sent to lab.

Next Steps & Recommendations

1



Site Photos

Viewing Direction: Northwest



Site view of 2' excavation where WS25-08 was collected

Viewing Direction: Southeast



Site view of 2' excavation where BS25-07 was collected

Viewing Direction: Southwest



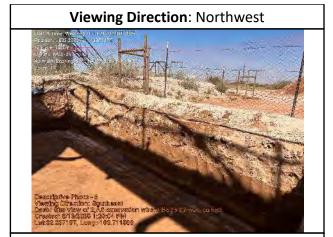
Site view of 2' excavation where BS25-07 was collected

Viewing Direction: Northeast



Site view of 2' excavation where BS25-08 was collected





Site view of 2.5' excavation where WS25-08 was collected



Site view of 2.5' excavation where WS25-08 was collected



Daily Site Visit Signature

Inspector: Sharon Minnix

Signature:

APPENDIX C – Laboratory Data Reports and Chain of Custody Forms



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

March 06, 2023

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

FAX

RE: Mesa Verde 7 Federal 2 OrderNo.: 2302A64

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 12 sample(s) on 2/24/2023 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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-01 0'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/22/2023 10:45:00 AM

 Lab ID:
 2302A64-001
 Matrix: SOIL
 Received Date: 2/24/2023 7:28:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/28/2023 1:22:19 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/28/2023 1:22:19 PM
Surr: DNOP	91.9	69-147	%Rec	1	2/28/2023 1:22:19 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/1/2023 1:32:55 AM
Surr: BFB	103	37.7-212	%Rec	1	3/1/2023 1:32:55 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	3/1/2023 1:32:55 AM
Toluene	ND	0.049	mg/Kg	1	3/1/2023 1:32:55 AM
Ethylbenzene	ND	0.049	mg/Kg	1	3/1/2023 1:32:55 AM
Xylenes, Total	ND	0.099	mg/Kg	1	3/1/2023 1:32:55 AM
Surr: 4-Bromofluorobenzene	94.5	70-130	%Rec	1	3/1/2023 1:32:55 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	2/27/2023 5:20:46 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

Page 1 of 19

Hall Environmental Analysis Laboratory, Inc. Date Reported: 3/6/2023

CLIENT: Devon Energy Client Sample ID: BH23-01 2'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/22/2023 10:50:00 AM

 Lab ID:
 2302A64-002
 Matrix: SOIL
 Received Date: 2/24/2023 7:28:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE OR	EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	2/28/2023 1:32:57 PM	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/28/2023 1:32:57 PM	
Surr: DNOP	96.6	69-147	%Rec	1	2/28/2023 1:32:57 PM	
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP	
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/1/2023 1:56:23 AM	
Surr: BFB	102	37.7-212	%Rec	1	3/1/2023 1:56:23 AM	
EPA METHOD 8021B: VOLATILES					Analyst: JJP	
Benzene	ND	0.023	mg/Kg	1	3/1/2023 1:56:23 AM	
Toluene	ND	0.046	mg/Kg	1	3/1/2023 1:56:23 AM	
Ethylbenzene	ND	0.046	mg/Kg	1	3/1/2023 1:56:23 AM	
Xylenes, Total	ND	0.091	mg/Kg	1	3/1/2023 1:56:23 AM	
Surr: 4-Bromofluorobenzene	92.3	70-130	%Rec	1	3/1/2023 1:56:23 AM	
EPA METHOD 300.0: ANIONS					Analyst: NAI	
Chloride	83	60	mg/Kg	20	2/27/2023 5:58:00 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: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-01 4'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/22/2023 10:55:00 AM

 Lab ID:
 2302A64-003
 Matrix: SOIL
 Received Date: 2/24/2023 7:28:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: DGH				
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	2/28/2023 1:43:34 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/28/2023 1:43:34 PM
Surr: DNOP	105	69-147	%Rec	1	2/28/2023 1:43:34 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/1/2023 2:19:52 AM
Surr: BFB	103	37.7-212	%Rec	1	3/1/2023 2:19:52 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	3/1/2023 2:19:52 AM
Toluene	ND	0.048	mg/Kg	1	3/1/2023 2:19:52 AM
Ethylbenzene	ND	0.048	mg/Kg	1	3/1/2023 2:19:52 AM
Xylenes, Total	ND	0.097	mg/Kg	1	3/1/2023 2:19:52 AM
Surr: 4-Bromofluorobenzene	93.5	70-130	%Rec	1	3/1/2023 2:19:52 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	130	61	mg/Kg	20	2/27/2023 6:35:14 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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CLIENT: Devon Energy

Project:

Analytical ReportLab Order **2302A64**

Date Reported: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-02 0'

Mesa Verde 7 Federal 2 Collection Date: 2/22/2023 11:00:00 AM

Lab ID: 2302A64-004 **Matrix:** SOIL **Received Date:** 2/24/2023 7:28:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	2/28/2023 1:54:15 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/28/2023 1:54:15 PM
Surr: DNOP	90.4	69-147	%Rec	1	2/28/2023 1:54:15 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/1/2023 2:43:17 AM
Surr: BFB	99.6	37.7-212	%Rec	1	3/1/2023 2:43:17 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	3/1/2023 2:43:17 AM
Toluene	ND	0.049	mg/Kg	1	3/1/2023 2:43:17 AM
Ethylbenzene	ND	0.049	mg/Kg	1	3/1/2023 2:43:17 AM
Xylenes, Total	ND	0.098	mg/Kg	1	3/1/2023 2:43:17 AM
Surr: 4-Bromofluorobenzene	89.6	70-130	%Rec	1	3/1/2023 2:43:17 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	2/27/2023 6:47:38 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 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.

Date Reported: 3/6/2023

CLIENT: Devon Energy Client Sample ID: BH23-02 2'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/22/2023 11:05:00 AM

 Lab ID:
 2302A64-005
 Matrix: SOIL
 Received Date: 2/24/2023 7:28:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	2/28/2023 2:04:55 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	2/28/2023 2:04:55 PM
Surr: DNOP	106	69-147	%Rec	1	2/28/2023 2:04:55 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/1/2023 3:06:47 AM
Surr: BFB	101	37.7-212	%Rec	1	3/1/2023 3:06:47 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	3/1/2023 3:06:47 AM
Toluene	ND	0.048	mg/Kg	1	3/1/2023 3:06:47 AM
Ethylbenzene	ND	0.048	mg/Kg	1	3/1/2023 3:06:47 AM
Xylenes, Total	ND	0.096	mg/Kg	1	3/1/2023 3:06:47 AM
Surr: 4-Bromofluorobenzene	91.9	70-130	%Rec	1	3/1/2023 3:06:47 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	2/27/2023 7:24:52 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-02 4'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/22/2023 11:10:00 AM

 Lab ID:
 2302A64-006
 Matrix: SOIL
 Received Date: 2/24/2023 7:28:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	2/28/2023 3:27:11 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/28/2023 3:27:11 PM
Surr: DNOP	99.6	69-147	%Rec	1	2/28/2023 3:27:11 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/1/2023 3:30:11 AM
Surr: BFB	101	37.7-212	%Rec	1	3/1/2023 3:30:11 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	3/1/2023 3:30:11 AM
Toluene	ND	0.048	mg/Kg	1	3/1/2023 3:30:11 AM
Ethylbenzene	ND	0.048	mg/Kg	1	3/1/2023 3:30:11 AM
Xylenes, Total	ND	0.097	mg/Kg	1	3/1/2023 3:30:11 AM
Surr: 4-Bromofluorobenzene	92.1	70-130	%Rec	1	3/1/2023 3:30:11 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	2/27/2023 7:37:17 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

ple pH Not In Range Page 6 of 19

Date Reported: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-03 0'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/22/2023 11:15:00 AM

 Lab ID:
 2302A64-007
 Matrix: SOIL
 Received Date: 2/24/2023 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	ORGANICS					Analyst: DGH
Diesel Range Organics (DRO)	380	99		mg/Kg	10	2/28/2023 1:01:03 PM
Motor Oil Range Organics (MRO)	780	490		mg/Kg	10	2/28/2023 1:01:03 PM
Surr: DNOP	0	69-147	S	%Rec	10	2/28/2023 1:01:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/1/2023 3:53:38 AM
Surr: BFB	97.2	37.7-212		%Rec	1	3/1/2023 3:53:38 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/1/2023 3:53:38 AM
Toluene	ND	0.050		mg/Kg	1	3/1/2023 3:53:38 AM
Ethylbenzene	ND	0.050		mg/Kg	1	3/1/2023 3:53:38 AM
Xylenes, Total	ND	0.10		mg/Kg	1	3/1/2023 3:53:38 AM
Surr: 4-Bromofluorobenzene	88.7	70-130		%Rec	1	3/1/2023 3:53:38 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	2/27/2023 7:49:41 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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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CLIENT: Devon Energy

Analytical ReportLab Order **2302A64**

Date Reported: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-03 2'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/22/2023 11:20:00 AM

 Lab ID:
 2302A64-008
 Matrix: SOIL
 Received Date: 2/24/2023 7:28:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.4	mg/Kg	1	2/28/2023 3:37:46 PM
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	2/28/2023 3:37:46 PM
Surr: DNOP	121	69-147	%Rec	1	2/28/2023 3:37:46 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/1/2023 4:17:02 AM
Surr: BFB	99.6	37.7-212	%Rec	1	3/1/2023 4:17:02 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	3/1/2023 4:17:02 AM
Toluene	ND	0.050	mg/Kg	1	3/1/2023 4:17:02 AM
Ethylbenzene	ND	0.050	mg/Kg	1	3/1/2023 4:17:02 AM
Xylenes, Total	ND	0.099	mg/Kg	1	3/1/2023 4:17:02 AM
Surr: 4-Bromofluorobenzene	90.9	70-130	%Rec	1	3/1/2023 4:17:02 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	61	mg/Kg	20	2/27/2023 8:02:05 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

pple pH Not In Range orting Limit Page 8 of 19

Date Reported: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-03 4'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/22/2023 11:25:00 AM

 Lab ID:
 2302A64-009
 Matrix: SOIL
 Received Date: 2/24/2023 7:28:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	2/28/2023 3:48:24 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	2/28/2023 3:48:24 PM
Surr: DNOP	97.1	69-147	%Rec	1	2/28/2023 3:48:24 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/1/2023 4:40:24 AM
Surr: BFB	100	37.7-212	%Rec	1	3/1/2023 4:40:24 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	3/1/2023 4:40:24 AM
Toluene	ND	0.049	mg/Kg	1	3/1/2023 4:40:24 AM
Ethylbenzene	ND	0.049	mg/Kg	1	3/1/2023 4:40:24 AM
Xylenes, Total	ND	0.098	mg/Kg	1	3/1/2023 4:40:24 AM
Surr: 4-Bromofluorobenzene	91.6	70-130	%Rec	1	3/1/2023 4:40:24 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	2/27/2023 8:14:30 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-04 0'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/22/2023 11:30:00 AM

 Lab ID:
 2302A64-010
 Matrix: SOIL
 Received Date: 2/24/2023 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				Analyst: DGH		
Diesel Range Organics (DRO)	170	91		mg/Kg	10	2/28/2023 7:10:12 PM
Motor Oil Range Organics (MRO)	480	460		mg/Kg	10	2/28/2023 7:10:12 PM
Surr: DNOP	0	69-147	S	%Rec	10	2/28/2023 7:10:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/28/2023 7:23:00 PM
Surr: BFB	103	37.7-212		%Rec	1	2/28/2023 7:23:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/1/2023 10:43:11 AM
Toluene	ND	0.047		mg/Kg	1	3/1/2023 10:43:11 AM
Ethylbenzene	ND	0.047		mg/Kg	1	3/1/2023 10:43:11 AM
Xylenes, Total	ND	0.095		mg/Kg	1	3/1/2023 10:43:11 AM
Surr: 4-Bromofluorobenzene	89.5	70-130		%Rec	1	3/1/2023 10:43:11 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	2/27/2023 11:13:58 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-04 2'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/22/2023 11:35:00 AM

 Lab ID:
 2302A64-011
 Matrix: SOIL
 Received Date: 2/24/2023 7:28:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: DGH
Diesel Range Organics (DRO)	2700	94		mg/Kg	10	2/28/2023 7:31:11 PM
Motor Oil Range Organics (MRO)	2200	470		mg/Kg	10	2/28/2023 7:31:11 PM
Surr: DNOP	0	69-147	S	%Rec	10	2/28/2023 7:31:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/28/2023 8:22:00 PM
Surr: BFB	107	37.7-212		%Rec	1	2/28/2023 8:22:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/1/2023 11:06:50 AM
Toluene	ND	0.049		mg/Kg	1	3/1/2023 11:06:50 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/1/2023 11:06:50 AM
Xylenes, Total	ND	0.098		mg/Kg	1	3/1/2023 11:06:50 AM
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	3/1/2023 11:06:50 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	59		mg/Kg	20	2/27/2023 11:26:19 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-04 4'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/22/2023 11:40:00 AM

 Lab ID:
 2302A64-012
 Matrix: SOIL
 Received Date: 2/24/2023 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS					Analyst: DGH
Diesel Range Organics (DRO)	330	98		mg/Kg	10	2/28/2023 7:52:08 PM
Motor Oil Range Organics (MRO)	630	490		mg/Kg	10	2/28/2023 7:52:08 PM
Surr: DNOP	0	69-147	S	%Rec	10	2/28/2023 7:52:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/28/2023 9:20:00 PM
Surr: BFB	104	37.7-212		%Rec	1	2/28/2023 9:20:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/1/2023 11:30:29 AM
Toluene	ND	0.048		mg/Kg	1	3/1/2023 11:30:29 AM
Ethylbenzene	ND	0.048		mg/Kg	1	3/1/2023 11:30:29 AM
Xylenes, Total	ND	0.095		mg/Kg	1	3/1/2023 11:30:29 AM
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	3/1/2023 11:30:29 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	2/27/2023 8:26:54 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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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Hall Environmental Analysis Laboratory, Inc.

WO#: **2302A64** *06-Mar-23*

Client: Devon Energy

Project: Mesa Verde 7 Federal 2

Sample ID: MB-73395 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 73395 RunNo: 94907

Prep Date: 2/27/2023 Analysis Date: 2/27/2023 SeqNo: 3430889 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-73395 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 73395 RunNo: 94907

Prep Date: 2/27/2023 Analysis Date: 2/27/2023 SeqNo: 3430890 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.8 90 110

Sample ID: MB-73405 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 73405 RunNo: 94908

Prep Date: 2/27/2023 Analysis Date: 2/27/2023 SeqNo: 3431077 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-73405 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 73405 RunNo: 94908

Prep Date: 2/27/2023 Analysis Date: 2/27/2023 SeqNo: 3431078 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.7 90 110

Qualifiers:

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

06-Mar-23

2302A64

WO#:

Client: Devon Energy

Project: Mesa Verde 7 Federal 2

Sample ID: LCS-73377	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch	n ID: 73	377	F	RunNo: 9	4894					
Prep Date: 2/24/2023	Analysis D	oate: 2/	27/2023	\$	SeqNo: 3	430273	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	36	10	50.00	0	72.8	61.9	130				
Surr: DNOP	3.9		5.000		79.0	69	147				
Sample ID: MB-73377	SampT	BLK	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics							

Client ID: PBS	Batch	n ID: 73 :	377	F	RunNo: 9	4894				
Prep Date: 2/24/2023	Analysis D	ate: 2/	27/2023	8	SeqNo: 3	430279	Units: mg/K	(g		
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	7.9		10.00		79.3	69	147			

Sample ID: LCS-73400	ample ID: LCS-73400 SampType: LCS						TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch	ID: 73 4	400	F	RunNo: 9	4924										
Prep Date: 2/27/2023	Analysis D	ate: 2/	28/2023	S	SeqNo: 3	431562	Units: mg/k	(g								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
Diesel Range Organics (DRO)	45	10	50.00	0	89.5	61.9	130									
Surr: DNOP	4.3		5.000		86.1	69	147									

Sample ID: MB-73400	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch	ID: 73 4	100	F	RunNo: 94	4924				
Prep Date: 2/27/2023	Analysis D	ate: 2/ 2	28/2023	S	SeqNo: 34	431563	Units: mg/K	ίg		
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	8.3		10.00		83.2	69	147			

Sample ID: MB-73474	SampType: M	BLK	Test	tCode: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch ID: 7	3474	R	RunNo: 9	4965				
Prep Date: 3/2/2023	S	SeqNo: 3	434009	Units: %Rec					
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: DNOP 8.4 10.00 84.0 69 147

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#: **2302A64** *06-Mar-23*

Client: Devon Energy

Project: Mesa Verde 7 Federal 2

Sample ID: LCS-73474 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 73474 RunNo: 94965

Prep Date: 3/2/2023 Analysis Date: 3/2/2023 SeqNo: 3434010 Units: %Rec

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

Surr: DNOP 4.5 5.000 90.1 69 147

Sample ID: MB-73456 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 73456 RunNo: 94965

Prep Date: 3/1/2023 Analysis Date: 3/2/2023 SeqNo: 3434451 Units: %Rec

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

Surr: DNOP 11 10.00 113 69 147

Sample ID: LCS-73456 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 73456 RunNo: 94965

Prep Date: 3/1/2023 Analysis Date: 3/2/2023 SeqNo: 3434452 Units: %Rec

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

Surr: DNOP 5.0 5.000 100 69 147

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#: 2302A64 06-Mar-23

Client: Devon Energy

Project: Mesa Verde 7 Federal 2

Sample ID: Ics-73371 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 73371 RunNo: 94929

Prep Date: 2/24/2023 Analysis Date: 2/28/2023 SeqNo: 3431929 Units: mq/Kq

SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit Qual Gasoline Range Organics (GRO) 24 5.0 25.00 Λ 96.3 72.3 137 Surr: BFB 2200 1000 37.7 212 S

Sample ID: mb-73371 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 73371 RunNo: 94929

Prep Date: 2/24/2023 Units: mg/Kg Analysis Date: 2/28/2023 SeqNo: 3431930

%RPD Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB

100

37.7

212

Sample ID: 2302A64-010ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

1000

Client ID: BH23-04 0' Batch ID: 73371 RunNo: 94929

1000

Prep Date: 2/24/2023 Analysis Date: 2/28/2023 SeqNo: 3431932 Units: mg/Kg

SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result POI %REC LowLimit HighLimit Qual Gasoline Range Organics (GRO) 20 4.7 23.67 0 82.8 70 130 Surr: BFB 1900 947.0 205 37.7 212

Sample ID: 2302A64-010amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: BH23-04 0' Batch ID: 73371 RunNo: 94929

Prep Date: 2/24/2023 Analysis Date: 2/28/2023 SeqNo: 3431933 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Gasoline Range Organics (GRO) 22 91.0 70 20 47 23.67 130 9.39 Surr: BFB 2000 947.0 208 37.7 212 0 0

Sample ID: Ics-73369 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 73369 RunNo: 94910

Prep Date: 2/24/2023 Analysis Date: 2/28/2023 SeqNo: 3431995 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 5.0 0 72.3 25.00 94.1 137 Surr: BFB 2000 1000 198 37.7 212

Sample ID: mb-73369 TestCode: EPA Method 8015D: Gasoline Range SampType: MBLK

Client ID: PBS Batch ID: 73369 RunNo: 94910

Prep Date: 2/24/2023 Analysis Date: 2/28/2023 SeqNo: 3431996 Units: mg/Kg

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

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- 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
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2302A64 06-Mar-23

Client: Devon Energy

Project: Mesa Verde 7 Federal 2

Sample ID: mb-73369 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 73369 RunNo: 94910

Prep Date: 2/24/2023 Analysis Date: 2/28/2023 SeqNo: 3431996 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 1000 1000 100 37.7 212

Sample ID: mb-73371 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 73371 RunNo: 94933

Prep Date: 2/24/2023 Analysis Date: 3/1/2023 SeqNo: 3432056 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 1000 1000 102 37.7 212

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#: **2302A64**

06-Mar-23

Client: Devon Energy

Project: Mesa Verde 7 Federal 2

Sample ID: LCS-73369	SampT	Гуре: LC	s	Tes	tCode: El	tiles						
Client ID: LCSS	Batcl	atch ID: 73369 RunNo: 94910										
Prep Date: 2/24/2023	Analysis D	Date: 2/28/2023 SeqNo: 3432010					Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.82	0.025	1.000	0	81.9	80	120					
Toluene	0.84	0.050	1.000	0	83.9	80	120					
Ethylbenzene	0.83	0.050	1.000	0	83.2	80	120					
Xylenes, Total	2.5	0.10	3.000	0	83.0	80	120					
Surr: 4-Bromofluorobenzene	0.93		1.000		93.3	70	130					

Sample ID: mb-73369 SampType: MBLK				TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batcl	n ID: 73 :	369	R	tunNo: 9	4910				
Prep Date: 2/24/2023	Analysis D	Date: 2/	28/2023	S	SeqNo: 3	432011	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	0.92		1.000		91.7	70	130			

Sample ID: LCS-73371	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batcl	n ID: 73 3	371	F	RunNo: 94	4933				
Prep Date: 2/24/2023	Analysis D	Date: 3/	1/2023	8	SeqNo: 34	432053	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	87.5	80	120			
Toluene	0.92	0.050	1.000	0	91.6	80	120			
Ethylbenzene	0.89	0.050	1.000	0	89.3	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.3	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	70	130			

Sample ID: mb-73371	SampT	уре: МЕ	BLK	Tes						
Client ID: PBS	Batcl	n ID: 73	371	F	tunNo: 9	4933				
Prep Date: 2/24/2023	Analysis D	Date: 3/	1/2023	S	SeqNo: 3	432077	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	0.93		1.000		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
- 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.

0.92

WO#: **2302A64**

06-Mar-23

Client: Devon Energy

Surr: 4-Bromofluorobenzene

Project: Mesa Verde 7 Federal 2

Sample ID: 2302a64-011ams	SampType: MS			Tes	tCode: El	iles				
Client ID: BH23-04 2'	Batch	ID: 73	371	F	RunNo: 9	4933				
Prep Date: 2/24/2023	Analysis D	ate: 3/	1/2023	S	SeqNo: 3	432569	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.024	0.9718	0	85.8	68.8	120			
Toluene	0.86	0.049	0.9718	0	88.2	73.6	124			
Ethylbenzene	0.85	0.049	0.9718	0	87.5	72.7	129			
Xylenes, Total	2.6	0.097	2.915	0.04873	86.1	75.7	126			

0.9718

70

130

94.3

Sample ID: 2302a64-011ams	s SampT	SampType: MSD			tCode: El	iles				
Client ID: BH23-04 2'	Batcl	n ID: 73 :	371	F	RunNo: 9	4933				
Prep Date: 2/24/2023	Analysis D	Date: 3/	1/2023	8	SeqNo: 3	432570	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.024	0.9747	0	87.8	68.8	120	2.58	20	
Toluene	0.88	0.049	0.9747	0	90.1	73.6	124	2.42	20	
Ethylbenzene	0.86	0.049	0.9747	0	88.7	72.7	129	1.65	20	
Xylenes, Total	2.6	0.097	2.924	0.04873	87.0	75.7	126	1.26	20	
Surr: 4-Bromofluorobenzene	0.91		0.9747		93.8	70	130	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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 4901 Hawkins NE

Albuquerque. NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Released to Imaging: 11/21/2025 1:59:09 PM

		Website: ww	w.hallenvironmental	.com		
Client Name:	Devon Energy	Work Order Num	nber: 2302A64	-	RcptNo:	1
Received By:	Tracy Casarrubias	2/24/2023 7:28:00	АМ			
Completed By:	Tracy Casarrubias	2/24/2023 7:48:33	AM			
Reviewed By:	Jn 2/24/2	3				
Chain of Cus	stody		•			
1. Is Chain of C	ustody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
<u>Log In</u>						
3. Was an atten	npt made to cool the sample	s?	Yes 🗹	No 🗌	NA 🗌	
4. Were all sam	ples received at a temperatu	re of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆	
5. Sample(s) in	proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sam	nple volume for indicated tes	t(s)?	Yes 🗸	No 🗌		
7. Are samples ((except VOA and ONG) prop	erly preserved?	Yes 🗹	No 🗆		
8. Was preserva	tive added to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. Received at le	east 1 vial with headspace <	1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any sar	mple containers received bro	ken?	Yes	No 🗹	# of preserved	
	ork match bottle labels? ancies on chain of custody)		Yes 🔽	No 🗆	bottles checked for pH: (<2 or	>12 unless noted)
	correctly identified on Chain	of Custody?	Yes 🗹	No 🗌	Adjusted2	
	t analyses were requested?	·	Yes 🗸	No 🗌		
14. Were all holdi	ng times able to be met? ustomer for authorization.)		Yes 🗹	No 🗆	Checked by:	2 2 (24)27
Special Handl	ing (if applicable)			,		
	otified of all discrepancies wi	th this order?	Yes 🗌	No 🗌	NA 🗹	
Person	Notified:	Date		n tekenis a na aw	· · · · · · · · · · · · · · · · · · ·	
By Who Regard		Via:	☐ eMail ☐ P	hone 🗌 Fax	☐ In Person	

16. Additional remarks:

Client Instructions:

17. Cooler Information

Cooler No	Temp ⁰C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.6	Good	Yes	Morty		·

	CI	hain-	of-C	ustody Recor	rd	Turn-A	round							L	4 A		E	NV	TE	201	NM	IER	JT.	A I	
Clier	nt: ()67e	n ((vetex)		□ Sta		e:	Rush	18Hr				A	N.	AL	YS	SIS	S L		BOF			RY	,
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ema	il or	Fax#:				Project					=	6					SO ₄			돧		du	19,611		
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□N	ELA	C	□ Az Co	ompliance er		On Ice	•	Net Yes		□ No many	TMB	RO / DR	ss/8082	504.1)	or 827	<u>s</u>	3, NO ₂ ,		OA)	(Prese		110		B (1	
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Data		T !	NA - 4 - t	Samula Nama		Contai	ner	Preserv		HEAL No.	BTEX / MTBE / TMB's (8021)	PH/8015	081 Pest	DB (Meth	PAHs by 8310 or 8270	CRA 8 N	CIPF, Br, NO3,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)					
Date	,		Matrix	Sample Name	~,	Туре а		Туре	in ne v	And the second s	4	4	/∞	Ш	_С	<u>~</u>	8	80	80	H	<u>- 11 -</u>		100	- 1-	-
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		11:40		BH23-04	4		1	100		012				(4)	, hua Visani	1 100			in the	LV2 L	2		15.10		\Box
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 06, 2023

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

FAX

RE: Mesa Verde 7 Federal 2 OrderNo.: 2302B05

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 10 sample(s) on 2/25/2023 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

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-04 6'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/23/2023 10:30:00 AM

 Lab ID:
 2302B05-001
 Matrix: SOIL
 Received Date: 2/25/2023 9:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	3/1/2023 2:31:18 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/1/2023 2:31:18 PM
Surr: DNOP	105	69-147	%Rec	1	3/1/2023 2:31:18 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/2/2023 2:03:04 AM
Surr: BFB	102	37.7-212	%Rec	1	3/2/2023 2:03:04 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	3/2/2023 2:03:04 AM
Toluene	ND	0.049	mg/Kg	1	3/2/2023 2:03:04 AM
Ethylbenzene	ND	0.049	mg/Kg	1	3/2/2023 2:03:04 AM
Xylenes, Total	ND	0.099	mg/Kg	1	3/2/2023 2:03:04 AM
Surr: 4-Bromofluorobenzene	91.6	70-130	%Rec	1	3/2/2023 2:03:04 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	170	60	mg/Kg	20	2/28/2023 7:28:58 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-04 8'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/23/2023 10:35:00 AM

 Lab ID:
 2302B05-002
 Matrix: SOIL
 Received Date: 2/25/2023 9:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: JME
Diesel Range Organics (DRO)	25	9.9	mg/Kg	1	3/1/2023 2:41:58 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/1/2023 2:41:58 PM
Surr: DNOP	115	69-147	%Rec	1	3/1/2023 2:41:58 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/2/2023 2:26:37 AM
Surr: BFB	104	37.7-212	%Rec	1	3/2/2023 2:26:37 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	3/2/2023 2:26:37 AM
Toluene	ND	0.050	mg/Kg	1	3/2/2023 2:26:37 AM
Ethylbenzene	ND	0.050	mg/Kg	1	3/2/2023 2:26:37 AM
Xylenes, Total	ND	0.099	mg/Kg	1	3/2/2023 2:26:37 AM
Surr: 4-Bromofluorobenzene	92.4	70-130	%Rec	1	3/2/2023 2:26:37 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	110	60	mg/Kg	20	2/28/2023 7:41:22 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: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-05 0'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/23/2023 10:40:00 AM

 Lab ID:
 2302B05-003
 Matrix: SOIL
 Received Date: 2/25/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE (ORGANICS					Analyst: JME
Diesel Range Organics (DRO)	930	180		mg/Kg	20	3/1/2023 1:27:35 PM
Motor Oil Range Organics (MRO)	930	890		mg/Kg	20	3/1/2023 1:27:35 PM
Surr: DNOP	0	69-147	S	%Rec	20	3/1/2023 1:27:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	60	24		mg/Kg	5	3/2/2023 2:50:09 AM
Surr: BFB	162	37.7-212		%Rec	5	3/2/2023 2:50:09 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.12		mg/Kg	5	3/2/2023 2:50:09 AM
Toluene	0.46	0.24		mg/Kg	5	3/2/2023 2:50:09 AM
Ethylbenzene	0.38	0.24		mg/Kg	5	3/2/2023 2:50:09 AM
Xylenes, Total	1.8	0.48		mg/Kg	5	3/2/2023 2:50:09 AM
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	5	3/2/2023 2:50:09 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	2/28/2023 7:53:47 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: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-05 2'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/23/2023 10:45:00 AM

 Lab ID:
 2302B05-004
 Matrix: SOIL
 Received Date: 2/25/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst: JME
Diesel Range Organics (DRO)	1900	92		mg/Kg	10	3/1/2023 4:50:26 PM
Motor Oil Range Organics (MRO)	2400	460		mg/Kg	10	3/1/2023 4:50:26 PM
Surr: DNOP	0	69-147	S	%Rec	10	3/1/2023 4:50:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	21	4.6		mg/Kg	1	3/2/2023 3:37:11 AM
Surr: BFB	201	37.7-212		%Rec	1	3/2/2023 3:37:11 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	0.028	0.023		mg/Kg	1	3/2/2023 3:37:11 AM
Toluene	0.12	0.046		mg/Kg	1	3/2/2023 3:37:11 AM
Ethylbenzene	0.14	0.046		mg/Kg	1	3/2/2023 3:37:11 AM
Xylenes, Total	0.64	0.093		mg/Kg	1	3/2/2023 3:37:11 AM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	3/2/2023 3:37:11 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	59		mg/Kg	20	2/28/2023 8:06:12 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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

e pH Not In Range ting Limit Page 4 of 15

Date Reported: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-05 4'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/23/2023 10:50:00 AM

 Lab ID:
 2302B05-005
 Matrix: SOIL
 Received Date: 2/25/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst: JME
Diesel Range Organics (DRO)	810	91		mg/Kg	10	3/1/2023 5:22:31 PM
Motor Oil Range Organics (MRO)	1400	450		mg/Kg	10	3/1/2023 5:22:31 PM
Surr: DNOP	0	69-147	S	%Rec	10	3/1/2023 5:22:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	5.2	4.7		mg/Kg	1	3/2/2023 4:00:43 AM
Surr: BFB	127	37.7-212		%Rec	1	3/2/2023 4:00:43 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	3/2/2023 4:00:43 AM
Toluene	ND	0.047		mg/Kg	1	3/2/2023 4:00:43 AM
Ethylbenzene	ND	0.047		mg/Kg	1	3/2/2023 4:00:43 AM
Xylenes, Total	0.16	0.094		mg/Kg	1	3/2/2023 4:00:43 AM
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	3/2/2023 4:00:43 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	2/28/2023 8:18:36 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-05 6'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/23/2023 10:55:00 AM

 Lab ID:
 2302B05-006
 Matrix: SOIL
 Received Date: 2/25/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst: JME
Diesel Range Organics (DRO)	350	99		mg/Kg	10	3/2/2023 11:33:38 AM
Motor Oil Range Organics (MRO)	650	490		mg/Kg	10	3/2/2023 11:33:38 AM
Surr: DNOP	0	69-147	S	%Rec	10	3/2/2023 11:33:38 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/2/2023 4:24:12 AM
Surr: BFB	118	37.7-212		%Rec	1	3/2/2023 4:24:12 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	3/2/2023 4:24:12 AM
Toluene	ND	0.046		mg/Kg	1	3/2/2023 4:24:12 AM
Ethylbenzene	ND	0.046		mg/Kg	1	3/2/2023 4:24:12 AM
Xylenes, Total	0.13	0.093		mg/Kg	1	3/2/2023 4:24:12 AM
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	3/2/2023 4:24:12 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	2/28/2023 8:31:01 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-05 8'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/23/2023 11:00:00 AM

 Lab ID:
 2302B05-007
 Matrix: SOIL
 Received Date: 2/25/2023 9:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: JME
Diesel Range Organics (DRO)	290	9.3	mg/Kg	1	3/2/2023 12:05:15 PM
Motor Oil Range Organics (MRO)	550	46	mg/Kg	1	3/2/2023 12:05:15 PM
Surr: DNOP	104	69-147	%Rec	1	3/2/2023 12:05:15 PM
EPA METHOD 8015D: GASOLINE RANGE	<u> </u>				Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/2/2023 4:47:40 AM
Surr: BFB	109	37.7-212	%Rec	1	3/2/2023 4:47:40 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	3/2/2023 4:47:40 AM
Toluene	ND	0.049	mg/Kg	1	3/2/2023 4:47:40 AM
Ethylbenzene	ND	0.049	mg/Kg	1	3/2/2023 4:47:40 AM
Xylenes, Total	ND	0.098	mg/Kg	1	3/2/2023 4:47:40 AM
Surr: 4-Bromofluorobenzene	92.2	70-130	%Rec	1	3/2/2023 4:47:40 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	2/28/2023 8:43:25 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: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-06 0'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/23/2023 11:05:00 AM

 Lab ID:
 2302B05-008
 Matrix: SOIL
 Received Date: 2/25/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS					Analyst: JME
Diesel Range Organics (DRO)	8200	93		mg/Kg	10	3/1/2023 7:18:47 PM
Motor Oil Range Organics (MRO)	5300	470		mg/Kg	10	3/1/2023 7:18:47 PM
Surr: DNOP	0	69-147	S	%Rec	10	3/1/2023 7:18:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/2/2023 5:11:09 AM
Surr: BFB	100	37.7-212		%Rec	1	3/2/2023 5:11:09 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/2/2023 5:11:09 AM
Toluene	ND	0.047		mg/Kg	1	3/2/2023 5:11:09 AM
Ethylbenzene	ND	0.047		mg/Kg	1	3/2/2023 5:11:09 AM
Xylenes, Total	ND	0.094		mg/Kg	1	3/2/2023 5:11:09 AM
Surr: 4-Bromofluorobenzene	88.9	70-130		%Rec	1	3/2/2023 5:11:09 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	260	60		mg/Kg	20	2/28/2023 8:55:49 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: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-06 2'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/23/2023 11:10:00 AM

 Lab ID:
 2302B05-009
 Matrix: SOIL
 Received Date: 2/25/2023 9:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst: JME
Diesel Range Organics (DRO)	1500	91		mg/Kg	10	3/1/2023 7:50:10 PM
Motor Oil Range Organics (MRO)	1700	450		mg/Kg	10	3/1/2023 7:50:10 PM
Surr: DNOP	0	69-147	S	%Rec	10	3/1/2023 7:50:10 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/2/2023 5:34:37 AM
Surr: BFB	96.6	37.7-212		%Rec	1	3/2/2023 5:34:37 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/2/2023 5:34:37 AM
Toluene	ND	0.048		mg/Kg	1	3/2/2023 5:34:37 AM
Ethylbenzene	ND	0.048		mg/Kg	1	3/2/2023 5:34:37 AM
Xylenes, Total	ND	0.095		mg/Kg	1	3/2/2023 5:34:37 AM
Surr: 4-Bromofluorobenzene	89.7	70-130		%Rec	1	3/2/2023 5:34:37 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	61		mg/Kg	20	2/28/2023 9:08:13 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 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: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-06 4'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/23/2023 11:15:00 AM

 Lab ID:
 2302B05-010
 Matrix: SOIL
 Received Date: 2/25/2023 9:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: JME
Diesel Range Organics (DRO)	1700	93		mg/Kg	10	3/1/2023 8:21:27 PM
Motor Oil Range Organics (MRO)	2100	470		mg/Kg	10	3/1/2023 8:21:27 PM
Surr: DNOP	0	69-147	S	%Rec	10	3/1/2023 8:21:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/2/2023 5:58:07 AM
Surr: BFB	98.1	37.7-212		%Rec	1	3/2/2023 5:58:07 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	3/2/2023 5:58:07 AM
Toluene	ND	0.047		mg/Kg	1	3/2/2023 5:58:07 AM
Ethylbenzene	ND	0.047		mg/Kg	1	3/2/2023 5:58:07 AM
Xylenes, Total	ND	0.094		mg/Kg	1	3/2/2023 5:58:07 AM
Surr: 4-Bromofluorobenzene	89.5	70-130		%Rec	1	3/2/2023 5:58:07 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	2/28/2023 9:20:38 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 Not Detected at the Reporting Limit
- QL 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#: **2302B05**

06-Mar-23

Client: Devon Energy

Project: Mesa Verde 7 Federal 2

Sample ID: MB-73423 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 73423 RunNo: 94937

Prep Date: 2/28/2023 Analysis Date: 2/28/2023 SeqNo: 3432208 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-73423 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 73423 RunNo: 94937

Prep Date: 2/28/2023 Analysis Date: 2/28/2023 SeqNo: 3432210 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.5 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 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 11 of 15

Hall Environmental Analysis Laboratory, Inc.

WO#: **2302B05**

06-Mar-23

Client: Devon Energy

Project: Mesa Verde 7 Federal 2

Sample ID: LCS-73421 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 73421 RunNo: 94952

Prep Date: 2/28/2023 Analysis Date: 3/1/2023 SeqNo: 3432996 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD Analyte Result PQL LowLimit HighLimit **RPDLimit** Qual Diesel Range Organics (DRO) 41 10 50.00 Λ 81.2 61.9 130 Surr: DNOP 4.5 5.000 90.0 147

Sample ID: MB-73421 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 73421 RunNo: 94952

10

Prep Date: 2/28/2023 Analysis Date: 3/1/2023 SeqNo: 3432998 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

104

147

Sample ID: MB-73436 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

10.00

Client ID: **PBS** Batch ID: **73436** RunNo: **94952**

Prep Date: 2/28/2023 Analysis Date: 3/1/2023 SeqNo: 3433068 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 9.2 10.00 92.3 69 147

Sample ID: LCS-73436 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 73436 RunNo: 94952

Prep Date: 2/28/2023 Analysis Date: 3/1/2023 SeqNo: 3433069 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Surr: DNOP 4.6 5.000 92.6 69 147

Sample ID: MB-73474 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 73474 RunNo: 94965 Analysis Date: 3/2/2023 SeqNo: 3434009 Prep Date: 3/2/2023 Units: %Rec Result SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte PQL LowLimit HighLimit Qual

Surr: DNOP 8.4 10.00 84.0 69 147

Sample ID: LCS-73474 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 73474 RunNo: 94965

Prep Date: 3/2/2023 Analysis Date: 3/2/2023 SeqNo: 3434010 Units: %Rec

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

Surr: DNOP 4.5 5.000 90.1 69 147

Qualifiers:

Surr: DNOP

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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Qual

Hall Environmental Analysis Laboratory, Inc.

WO#: **2302B05**

06-Mar-23

Client: Devon Energy

Project: Mesa Verde 7 Federal 2

Sample ID: MB-73456 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 73456 RunNo: 94965

Prep Date: 3/1/2023 Analysis Date: 3/2/2023 SeqNo: 3434451 Units: %Rec

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

Surr: DNOP 11 10.00 113 69 147

Sample ID: LCS-73456 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 73456 RunNo: 94965

Prep Date: 3/1/2023 Analysis Date: 3/2/2023 SeqNo: 3434452 Units: %Rec

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

Surr: DNOP 5.0 5.000 100 69 147

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 13 of 15

Hall Environmental Analysis Laboratory, Inc.

2302B05 06-Mar-23

WO#:

Client: Devon Energy

Project: Mesa Verde 7 Federal 2

Sample ID: Ics-73396 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 73396 RunNo: 94933

Prep Date: 2/27/2023 Analysis Date: 3/1/2023 SeqNo: 3433434 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO) 22 5.0 25.00 0 87.8 72.3 137

 Gasoline Range Organics (GRO)
 22
 5.0
 25.00
 0
 87.8
 72.3
 137

 Surr: BFB
 1900
 1000
 193
 37.7
 212

Sample ID: mb-73396 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 73396 RunNo: 94933

Prep Date: 2/27/2023 Analysis Date: 3/1/2023 SeqNo: 3433435 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 1000 1000 102 37.7 212

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of 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#: **2302B05** *06-Mar-23*

Client: Devon Energy

Project: Mesa Verde 7 Federal 2

Sample ID: LCS-73396	SampT	ype: LC	s	Test	tCode: El	PA Method	8021B: Volat	8021B: Volatiles						
Client ID: LCSS	Batch	n ID: 73 3	396	R	RunNo: 9	4933								
Prep Date: 2/27/2023	Analysis D	oate: 3/	1/2023	S	SeqNo: 3	433469	Units: mg/K	ίg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	0.84	0.025	1.000	0	83.5	80	120							
Toluene	0.87	0.050	1.000	0	87.0	80	120							
Ethylbenzene	0.86	0.050	1.000	0	85.8	80	120							
Xylenes, Total	2.6	0.10	3.000	0	86.2	80	120							
Surr: 4-Bromofluorobenzene	0.94		1.000		94.2	70	130							

Sample ID: mb-73396	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batcl	n ID: 73 :	396	F	RunNo: 9	4933				
Prep Date: 2/27/2023	Analysis D	Date: 3/	1/2023	\$	SeqNo: 3	433470	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	0.92		1.000		91.9	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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 Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 11/21/2025 1:59:09 PM

Client Name:	Devon Ene	ergy	Work	Order Num	nber: 230	2B05			RcptNo:	1
Received By:	Tracy Cas	sarrubias	2/25/20	23 9:00:00	AM					
Completed By:	Tracy Cas	sarrubias	2/25/20	23 10:09:5	7 AM					
Reviewed By:	DAD	2/27/	23							
Chain of Cus	<u>tody</u>									
1. Is Chain of C	ustody comp	lete?			Yes		No	V	Not Present	
2. How was the	sample deliv	vered?			<u>Cou</u>	<u>rier</u>				
Log In										
3. Was an attern	npt made to	cool the samp	es?		Yes	✓	No	Ц	na 🗆	
4. Were all samp	oles received	l at a tempera	ture of >0° C	to 6.0°C	Yes	V	No		na 🗆	
5. Sample(s) in	proper conta	iner(s)?			Yes	V	No			
6. Sufficient sam	iple volume f	or indicated te	est(s)?		Yes	\checkmark	No			
7. Are samples (except VOA	and ONG) pro	perly preserve	ed?	Yes	\checkmark	No			
8. Was preserva	tive added to	bottles?			Yes		No	V	NA 🗆	
9. Received at le	ast 1 vial wit	h headspace	<1/4" for AQ \	OA?	Yes		No		NA 🗹	
10. Were any san	nple containe	ers received b	roken?		Yes		No	\checkmark	# of preserved	/
11. Does paperwo					Yes	V	No		bottles checked for pH:	>12 unless noted)
12 Are matrices of					Yes	V	No		Adjusted?	,
13. Is it clear what	t analyses we	ere requested	?		Yes	\checkmark	No			
14. Were all holding (If no, notify cu	•				Yes	V	No	9/	Checked by:	M 2/25/2
Special Handl							/			
15. Was client no			vith this order?	,	Yes		No		NA 🗹	
Person	Notified:		Anna Anna Anna Anna Anna Anna Anna Anna	Date	: [-	***************************************	-		
By Who	m:		***************************************	Via:	eМ	ail 🔲	Phone [Fax	☐ In Person	
Regardi	ng:					-	-	HAVEST		
Client Ir	nstructions:			***************************************				-		
16. Additional rer	marks:									-
17. Cooler Infor	<u>mation</u>									
Cooler No		Condition	Seal Intact	Seal No	Seal D	ate	Signed E	Зу		
1	2.1	Good	Yes	Yogi		4				

Chain-of-Custody Re	cord Turn-A	round Time:	1.0.11				HA	LL	EN	IV)	IRC	NN	1EN	TA	L
Client: Devan (Vertex)		andard 🔀 R t Name:	ush_Y&Hr									BO	RAT	OR	5.
Mailing Address: on file	Meso	Mesa Verde 7 Federal 2 Project #:			www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109										
Phone #:		21E-02816			Tel. 505-345-3975 Fax 505-345-4107 Analysis Request										
email or Fax#:		t Manager:		SO ₄ SO ₄											
QA/QC Package: □ Standard □ Level 4 (Fu	l Validation)	- Stalling	S	TMB's (8021) / DRO / MRO 3082 PCB's 4.1) 8270SIMS NO ₂ , PO ₄ , SO No ₂ , PO ₄ , SO											
Accreditation: Az Compliance Other EDD (Type)	Sample On Ice # of Co		□ No yog												
LDD (Type)	Cooler	Temp(including CF):	2.1-Ø= 2.1 (°C)	X/ MTBE /	38015D(C	8081 Pesticide EDB (Method	PAHs by 8310	RCRA 8 Metals	CI F, Br, NO ₃ ,	8260 (VOA)	(Semi-VOA)				
Date Time Matrix Sample Nar	Contain ne Type a		HEAL No.	BTEX/		808. EDB	PAH	낊	S S	826(8270 Total				
12/23 10:30 Soil BH23-04	6 4025		001	T					1						
10:35 BH23-04	8		002												
10:40 BH23-05	0`		003												Г
10:45 BH23-65	2		004												Ī
10:50 BH23-05	Ч`		OOS												Γ
10:55 BH23-05	6		006						II						Γ
11:00 123-05	8'		404						II						Γ
11:05 BH23-06	0)		W8		П			П							Γ
1110 BH23-06	2`		009												
11:12 BH23-06	4)		010		1				Ц					\square	-
	Berri	d by a VP=	Date Time												
Date: Time: Relinquished by: 5. Reta	Receive	umin	Date Time 21413 800	20 CC. Incob Reta											
Date: Time: Relinquished by:	Receive		Date Time 9:00												



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

March 08, 2023

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

FAX:

RE: Mesa Verde 7 Federal 2 OrderNo.: 2302B49

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 7 sample(s) on 2/28/2023 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: 3/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-05 10'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/24/2023 10:40:00 AM

 Lab ID:
 2302B49-001
 Matrix: SOIL
 Received Date: 2/28/2023 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: JME
Diesel Range Organics (DRO)	25	9.4	mg/Kg	1	3/2/2023 12:05:40 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/2/2023 12:05:40 AM
Surr: DNOP	102	69-147	%Rec	1	3/2/2023 12:05:40 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/3/2023 3:32:37 AM
Surr: BFB	98.2	37.7-212	%Rec	1	3/3/2023 3:32:37 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	3/3/2023 3:32:37 AM
Toluene	ND	0.048	mg/Kg	1	3/3/2023 3:32:37 AM
Ethylbenzene	ND	0.048	mg/Kg	1	3/3/2023 3:32:37 AM
Xylenes, Total	ND	0.096	mg/Kg	1	3/3/2023 3:32:37 AM
Surr: 4-Bromofluorobenzene	89.6	70-130	%Rec	1	3/3/2023 3:32:37 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	88	60	mg/Kg	20	3/1/2023 8:03:09 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

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

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

Page 1 of 12

Date Reported: 3/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-05 12'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/24/2023 10:50:00 AM

 Lab ID:
 2302B49-002
 Matrix: SOIL
 Received Date: 2/28/2023 8:00:00 AM

Analyses	Result	RL Qua	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: JME
Diesel Range Organics (DRO)	ND	8.5	mg/Kg	1	3/2/2023 12:16:22 AM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	3/2/2023 12:16:22 AM
Surr: DNOP	125	69-147	%Rec	1	3/2/2023 12:16:22 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/3/2023 3:55:56 AM
Surr: BFB	101	37.7-212	%Rec	1	3/3/2023 3:55:56 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	3/3/2023 3:55:56 AM
Toluene	ND	0.049	mg/Kg	1	3/3/2023 3:55:56 AM
Ethylbenzene	ND	0.049	mg/Kg	1	3/3/2023 3:55:56 AM
Xylenes, Total	ND	0.098	mg/Kg	1	3/3/2023 3:55:56 AM
Surr: 4-Bromofluorobenzene	92.2	70-130	%Rec	1	3/3/2023 3:55:56 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	97	60	mg/Kg	20	3/1/2023 8:15:33 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 12

Date Reported: 3/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-07 0'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/24/2023 11:45:00 AM

 Lab ID:
 2302B49-003
 Matrix: SOIL
 Received Date: 2/28/2023 8:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS					Analyst: JME
Diesel Range Organics (DRO)	13000	200		mg/Kg	20	3/2/2023 12:27:01 AM
Motor Oil Range Organics (MRO)	4900	980		mg/Kg	20	3/2/2023 12:27:01 AM
Surr: DNOP	0	69-147	S	%Rec	20	3/2/2023 12:27:01 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	2300	250		mg/Kg	50	3/3/2023 12:43:22 PM
Surr: BFB	333	37.7-212	S	%Rec	50	3/3/2023 12:43:22 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	1.2	0.98		mg/Kg	50	3/3/2023 12:43:22 PM
Toluene	30	2.5		mg/Kg	50	3/3/2023 12:43:22 PM
Ethylbenzene	25	2.5		mg/Kg	50	3/3/2023 12:43:22 PM
Xylenes, Total	120	4.9		mg/Kg	50	3/3/2023 12:43:22 PM
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	50	3/3/2023 12:43:22 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	3/1/2023 8:52:47 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 3 of 12

Date Reported: 3/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-07 2'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/24/2023 11:50:00 AM

 Lab ID:
 2302B49-004
 Matrix: SOIL
 Received Date: 2/28/2023 8:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: JME
Diesel Range Organics (DRO)	370	9.7	mg/Kg	1	3/2/2023 12:48:16 AM
Motor Oil Range Organics (MRO)	180	48	mg/Kg	1	3/2/2023 12:48:16 AM
Surr: DNOP	101	69-147	%Rec	1	3/2/2023 12:48:16 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	11	4.9	mg/Kg	1	3/3/2023 1:07:18 PM
Surr: BFB	182	37.7-212	%Rec	1	3/3/2023 1:07:18 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	3/3/2023 1:07:18 PM
Toluene	ND	0.049	mg/Kg	1	3/3/2023 1:07:18 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/3/2023 1:07:18 PM
Xylenes, Total	0.22	0.098	mg/Kg	1	3/3/2023 1:07:18 PM
Surr: 4-Bromofluorobenzene	98.6	70-130	%Rec	1	3/3/2023 1:07:18 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	3/1/2023 9:05:11 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of 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: 3/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-07 4'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/24/2023 11:55:00 AM

 Lab ID:
 2302B49-005
 Matrix: SOIL
 Received Date: 2/28/2023 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: JME
Diesel Range Organics (DRO)	22	9.5	mg/Kg	1	3/2/2023 1:09:28 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/2/2023 1:09:28 AM
Surr: DNOP	97.4	69-147	%Rec	1	3/2/2023 1:09:28 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/3/2023 5:06:00 AM
Surr: BFB	110	37.7-212	%Rec	1	3/3/2023 5:06:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	3/3/2023 5:06:00 AM
Toluene	ND	0.050	mg/Kg	1	3/3/2023 5:06:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	3/3/2023 5:06:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	3/3/2023 5:06:00 AM
Surr: 4-Bromofluorobenzene	91.3	70-130	%Rec	1	3/3/2023 5:06:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	3/1/2023 9:17:36 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

Page 5 of 12

Date Reported: 3/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-07 6'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/24/2023 12:00:00 PM

 Lab ID:
 2302B49-006
 Matrix: SOIL
 Received Date: 2/28/2023 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: JME
Diesel Range Organics (DRO)	55	9.9	mg/Kg	1	3/2/2023 1:20:02 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/2/2023 1:20:02 AM
Surr: DNOP	100	69-147	%Rec	1	3/2/2023 1:20:02 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/3/2023 5:29:19 AM
Surr: BFB	105	37.7-212	%Rec	1	3/3/2023 5:29:19 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	3/3/2023 5:29:19 AM
Toluene	ND	0.049	mg/Kg	1	3/3/2023 5:29:19 AM
Ethylbenzene	ND	0.049	mg/Kg	1	3/3/2023 5:29:19 AM
Xylenes, Total	ND	0.097	mg/Kg	1	3/3/2023 5:29:19 AM
Surr: 4-Bromofluorobenzene	88.6	70-130	%Rec	1	3/3/2023 5:29:19 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	3/1/2023 9:30:01 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

Page 6 of 12

Date Reported: 3/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-07 7'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 2/24/2023 12:05:00 PM

 Lab ID:
 2302B49-007
 Matrix: SOIL
 Received Date: 2/28/2023 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: JME
Diesel Range Organics (DRO)	21	10	mg/Kg	1	3/2/2023 1:30:31 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/2/2023 1:30:31 AM
Surr: DNOP	90.3	69-147	%Rec	1	3/2/2023 1:30:31 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/3/2023 5:52:41 AM
Surr: BFB	101	37.7-212	%Rec	1	3/3/2023 5:52:41 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	3/3/2023 5:52:41 AM
Toluene	ND	0.049	mg/Kg	1	3/3/2023 5:52:41 AM
Ethylbenzene	ND	0.049	mg/Kg	1	3/3/2023 5:52:41 AM
Xylenes, Total	ND	0.099	mg/Kg	1	3/3/2023 5:52:41 AM
Surr: 4-Bromofluorobenzene	87.3	70-130	%Rec	1	3/3/2023 5:52:41 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	3/2/2023 12:36:09 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

Page 7 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#: **2302B49**

08-Mar-23

Client: Vertex Resources Services, Inc.

Project: Mesa Verde 7 Federal 2

Sample ID: MB-73447 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 73447 RunNo: 94974

Prep Date: 3/1/2023 Analysis Date: 3/1/2023 SeqNo: 3433828 Units: mq/Kq

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

Chloride ND 1.5

Sample ID: LCS-73447 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 73447 RunNo: 94974

Prep Date: 3/1/2023 Analysis Date: 3/1/2023 SeqNo: 3433829 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

Sample ID: MB-73467 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 73467 RunNo: 94974

Prep Date: 3/1/2023 Analysis Date: 3/1/2023 SeqNo: 3433861 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-73467 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 73467 RunNo: 94974

Prep Date: 3/1/2023 Analysis Date: 3/1/2023 SeqNo: 3433862 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.2 90 110

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 8 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#: **2302B49**

08-Mar-23

Client: Vertex Resources Services, Inc.

Project: Mesa Verde 7 Federal 2

Sample ID: MB-73436	SampT	уре: МЕ	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: PBS	Batch	n ID: 73 4	136	RunNo: 94952									
Prep Date: 2/28/2023	Analysis D	ate: 3/	1/2023	5	SeqNo: 34	433068	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Organics (DRO)	ND	10											
Motor Oil Range Organics (MRO)	ND	50											
Surr: DNOP	9.2		10.00		92.3	69	147						

Sample ID: LCS-73436	SampT	ype: LC	s	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch	ID: 73 4	436 RunNo: 94952									
Prep Date: 2/28/2023	Analysis D	ate: 3/	1/2023	9	SeqNo: 34	433069	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	40	10	50.00	0	80.8	61.9	130					
Surr: DNOP	4.6		5.000		92.6	69	147					

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of 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 9 of 12

Hall Environmental Analysis Laboratory, Inc.

Result

2000

PQL

WO#: 2302B49

08-Mar-23

Client: Vertex Resources Services, Inc. **Project:** Mesa Verde 7 Federal 2

Sample ID:	2.5ug gro lcs	SampTy	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range									
Client ID:	LCSS	Batch	ID: GS	94977	F	RunNo: 9	4977					
Prep Date:		Analysis Da	ate: 3/ 2	2/2023	5	SeqNo: 3	433961	Units: %Rec				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: BFB		2000		1000		199	37.7	212				
Sample ID:	mb	SampTy	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015D: Gasol	ine Range)		
Client ID:	PBS	Batch	ID: GS	94977	F	RunNo: 9	4977					
Prep Date:		Analysis Da	ate: 3/ 2	2/2023	9	SeqNo: 3	433962	Units: %Rec				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: BFB		1000		1000		103	37.7	212				
Sample ID:	lcs-73430	SampTy	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gasol	ine Range	•		
Client ID:	LCSS	Batch	ID: 73 4	430	F	RunNo: 9	4977					
Prep Date:	2/28/2023	Analysis Da	ate: 3/ 2	2/2023	5	SeqNo: 3	435300	Units: mg/K	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Rang	e Organics (GRO)	21	5.0	25.00	0	85.6	72.3	137				
Surr: BFB		2000		1000		197	37.7	212				
Sample ID:	MB-73430	SampTy	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015D: Gasol	ine Range	1		
Client ID:	PBS	Batch	ID: 73 4	430	F	RunNo: 9	4977					
Prep Date:	2/28/2023	Analysis Da	ate: 3/ 2	2/2023	9	SeqNo: 3	435301	Units: mg/K	g			

Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	37.7	212			
Sample ID: Ics-73374	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range	•	
Client ID: LCSS	Batch	1D: 73	374	F	RunNo: 95	5021				
Prep Date: 2/24/2023	Analysis D	ate: 3/	3/2023	5	SeqNo: 34	135872	Units: %Rec	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

%REC

197

LowLimit

37.7

SPK value SPK Ref Val

Sample ID: mb-73374	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: 73374	RunNo: 95021
Prep Date: 2/24/2023	Analysis Date: 3/3/2023	SeqNo: 3435873 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 1000 1000 103 37.7 212

1000

Qualifiers:

Analyte

Surr: BFB

- 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
- RLReporting Limit

Page 10 of 12

%RPD

HighLimit

212

RPDLimit

Qual

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302B49

08-Mar-23

Client:	Vertex Resources Services, Inc.
Project:	Mesa Verde 7 Federal 2

	Verde 7 Fede	ŕ	, mc.									
Sample ID: 100ng btex Ics	Samp	Type: LC	s	Tes	stCode: El	PA Method	8021B: Volati	iles				
Client ID: LCSS	Batc	h ID: R9	4977	F	RunNo: 9	4977						
Prep Date:	Analysis I	Date: 3/ 2	2/2023	;	SeqNo: 3	433969	Units: %Red	:				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: 4-Bromofluorobenzene	0.93		1.000		92.8	70	130					
Sample ID: mb	Samp	Туре: МЕ	BLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batc	h ID: R9	4977	ſ	RunNo: 9	4977						
Prep Date:	Analysis I	Date: 3/ 2	2/2023	;	SeqNo: 3	433970	Units: %Red	:				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: 4-Bromofluorobenzene	0.92		1.000		91.8	70	130					
Sample ID: LCS-73430	Samp	Type: LC	S	Tes	stCode: El	PA Method	8021B: Volati	iles				
Client ID: LCSS	Batc	h ID: 73 4	430	F	RunNo: 9	4977						
Prep Date: 2/28/2023	Analysis I	Date: 3/ 2	2/2023	:	SeqNo: 3435356		Units: mg/K	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.82	0.025	1.000	0	81.9	80	120					
Toluene	0.85	0.050	1.000	0	85.3	80	120					
Ethylbenzene	0.84	0.050	1.000	0	84.1	80	120					
Xylenes, Total	2.5	0.10	3.000	0	84.8	80	120					
Surr: 4-Bromofluorobenzene	0.93		1.000		93.5	70	130					
Sample ID: MB-73430	Samp	Туре: МЕ	BLK	Tes	stCode: El	PA Method	8021B: Volati	iles				
Client ID: PBS	Batc	h ID: 73 4	430	F	RunNo: 9	4977						
Prep Date: 2/28/2023	Analysis I	Date: 3/ 2	2/2023	;	SeqNo: 3	435357	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	0.91		1.000		91.4	70	130					
Sample ID: LCS-73374	Samp	Type: LC	s	Tes	stCode: El	PA Method	8021B: Volati	iles				
Client ID: LCSS	Batc	h ID: 73 3	374	RunNo: 95021								
Prep Date: 2/24/2023	Analysis I	Date: 3/ 3	3/2023	;	SeqNo: 3	435881	Units: %Red	;				
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

Surr: 4-Bromofluorobenzene

- 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.

0.95

- 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

1.000

Page 11 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#: **2302B49**

08-Mar-23

Client: Vertex Resources Services, Inc.

Project: Mesa Verde 7 Federal 2

Sample ID: mb-73374 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 73374 RunNo: 95021

Prep Date: 2/24/2023 Analysis Date: 3/3/2023 SeqNo: 3435882 Units: %Rec

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

Surr: 4-Bromofluorobenzene 0.93 1.000 93.1 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 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 12 of 12



Hall Environmental Analysis Laboratory
4901 Hawkins NE

Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 11/21/2025 1:59:09 PM

Client Name:	Vertex Reso Services, In		Work	Order Num	ber: 2302B49		RcptNo	: 1
Received By:	Cheyenne	Cason	2/28/20	23 8:00:00	АМ	Chul S-L		
Completed By:	Sean Livir	gston	2/28/20	23 8:31:09	AM	5_/	not	
Reviewed By:	ft 7-2	8.23				<i></i>	<i>y</i> . –	
Chain of Cus	stody							
1. Is Chain of C	Custody compl	ete?			Yes 🗹	No 🗌	Not Present	
2. How was the	sample delive	ered?			<u>Courier</u>			
<u>Log In</u>								
3. Was an atter	mpt made to c	ool the samp	les?		Yes 🗹	No 🗌	NA 📙	
4. Were all sam	ples received	at a tempera	ture of >0° C	to 6.0°C	Yes 🗹	No 🗌	na 🗆	
5. Sample(s) in	proper contai	ner(s)?			Yes 🗹	No 🗌		
6. Sufficient sar	nple volume fo	or indicated to	est(s)?		Yes 🗹	No 🗌		
7. Are samples	(except VOA	and ONG) pr	operly preserv	ed?	Yes 🗹	No 🗌		
8. Was preserva	ative added to	bottles?			Yes 🗌	No 🗹	na 🗆	
9. Received at I	east 1 vial with	n headspace	<1/4" for AQ \	/OA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any sa	mple containe	rs received b	roken?		Yes 🗌	No 🗹	# of preserved	
44.5					🗖		bottles checked	
11. Does paperw (Note discrep	ork match bot pancies on cha		·)		Yes 🗹	No 📙	for pH: (<2 o	r >12 unless noted)
12. Are matrices					Yes 🗹	No 🗌	Adjusted?	
13. Is it clear wha	at analyses we	ere requested	l?		Yes 🗹	No 🗌		
14. Were all hold	ling times able				Yes 🗹	No 🗆	Checked by:	LPU 2-28.
Special Hand								
15. Was client n			with this order	?	Yes 🗌	No 🗌	NA ✓	
Persor	n Notified:			Date	Г			
By Wh	iom:			Via:	eMail	Phone Fax	☐ In Person	
Regard	ding:							
Client	Instructions:						*	
16. Additional re	emarks:							
17. Cooler Info	rmation							
Cooler N	-	Condition	Seal Intact	Seal No	Seal Date	Signed By	· · · · · · · · · · · · · · · · · · ·	
1	0.1	Good	Not Present	YOGI			·	

CI	hain-	of-Cu	istody Record	d	Turn-A	Around	Time:				HALL ENVIRONMENTAL														
Client: [)evôn	Ver	tex)		□ St	andard at Name	<u>⊠</u> R	lush	L/B Hr		ANALYSIS LABORATOR														
Mailing A	Address	: Or	Gle		Mes	5a V	lerde =	7 F	recleval 2	<u>-</u>	4901 Hawkins NE - Albuquerque, NM 87109														
					Projec	ct #: - 0V	***			H 11 5	Tel. 505-345-3975 Fax 505-345-4107														
Phone #				<u> </u>				11			Analysis Request														
email or					1		Manager: (SO 4 Sent)																		
QA/QC P ☐ Stance	•		☐ Level 4 (Full Valida	ation)	Ke	nt S	tallings				TMB's (8021)	N 0	PCB's		8270SIMS		PO4,	11	30	nt/Ab		911			
Accredit			ompliance				. Reta	ر ا	- Pollm		BTBX / MTBE / TMB's (8021) TPH-8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHS by 8310 or 8270SIMS RCRA 8 Metals CJ)F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) Total Coliform (Present/Absent)						1111								
□ NELA		□ Othe			On Ice	e: oolers:	Yes Yes		□ No	Yogi	33RO 10 or 14 50 10 or 10 or														
	(Type)_			_				0.6) to.1=	7.1 (°C)	MTBE /	15D((stici	EDB (Method	PAHs by 8310	RCRA 8 Metals	CI)F, Br, NO3,	OA)	8270 (Semi-VOA)						
					Conta	iner	Preserva	tivo	HE	AL No.	(X)	è	1 Pe	B (M	ds b	RA 8	F, B	8260 (VOA)	s) 0.	<u> </u>		9	- 5		
Date	Time	Matrix	Sample Name		Type a		Type	ilive	2302		ятух/	臣	88	EDI	PA	RC	<u>3</u>	826	827	Tot				\perp	
02/24/23	6:40	Soi	BH23-05	10'	402	Jar	Ice.			001		T							1 (1)	mast		114	1	\perp	
	10:50		BH23-05	12			77		366 2	SON					are it co	pc 3/10	,et 1 11 1	- ,	- Albert		gr lag	i in	(O))	\perp	
	11:45		BH23-07	O,						003								1	71	100	100				
	11:50		BH23-07	ヾ						204					al .	10.		1 1 =		19.1			-11	\dashv	
	11:55		BH23-07	4						205	$\perp \perp$				15	e 10		0.11	727		. 331		\perp		
	12,00		BH23-07	6					11 10001 7	394	$\bot \bot$								da iii				yeli	\dashv	11
	12,05		B423-07	7`		<u> </u>				707	\sqcup	Ш					1								
	 								1 1		 												\dashv	_	
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		-							y		+	╁	_		i hiii	- 1		100	11.00	100	1 (0			\dashv	_
04/24/23	Time:	Relinquis S. Re	ta		Receiv Receiv	Ши	Via:		Date 2 21 2	Time	5 Prileof Dill to Deven														
11/23	1900		mmy		CM		coster	191		3 0800															



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

March 10, 2023

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

FAX

RE: Mesa Verde 7 Federal 2 OrderNo.: 2303177

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 6 sample(s) on 3/3/2023 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

andy

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **2303177**

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-08 0'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 3/1/2023 10:00:00 AM

 Lab ID:
 2303177-001
 Matrix: SOIL
 Received Date: 3/3/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	91	10	mg/Kg	1	3/7/2023 1:35:21 PM
Motor Oil Range Organics (MRO)	210	50	mg/Kg	1	3/7/2023 1:35:21 PM
Surr: DNOP	102	69-147	%Rec	1	3/7/2023 1:35:21 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/6/2023 5:07:00 PM
Surr: BFB	88.4	37.7-212	%Rec	1	3/6/2023 5:07:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	3/6/2023 5:07:00 PM
Toluene	ND	0.050	mg/Kg	1	3/6/2023 5:07:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/6/2023 5:07:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	3/6/2023 5:07:00 PM
Surr: 4-Bromofluorobenzene	88.4	70-130	%Rec	1	3/6/2023 5:07:00 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	3/6/2023 1:22:16 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 1 of 10

Lab Order 2303177

Hall Environmental Analysis Laboratory, Inc. Date Reported: 3/10/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-08 2'

Project: Mesa Verde 7 Federal 2 **Collection Date:** 3/1/2023 10:05:00 AM Lab ID: 2303177-002 Matrix: SOIL Received Date: 3/3/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst: DGH
Diesel Range Organics (DRO)	1300	98		mg/Kg	10	3/6/2023 9:57:09 PM
Motor Oil Range Organics (MRO)	1600	490		mg/Kg	10	3/6/2023 9:57:09 PM
Surr: DNOP	0	69-147	S	%Rec	10	3/6/2023 9:57:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/6/2023 5:29:00 PM
Surr: BFB	87.8	37.7-212		%Rec	1	3/6/2023 5:29:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	3/6/2023 5:29:00 PM
Toluene	ND	0.049		mg/Kg	1	3/6/2023 5:29:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/6/2023 5:29:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/6/2023 5:29:00 PM
Surr: 4-Bromofluorobenzene	90.7	70-130		%Rec	1	3/6/2023 5:29:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	3/6/2023 1:34:41 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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- 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 Ε
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL

Reporting Limit

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Lab Order **2303177**

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-08 4'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 3/1/2023 10:10:00 AM

 Lab ID:
 2303177-003
 Matrix: SOIL
 Received Date: 3/3/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	3/6/2023 10:18:19 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/6/2023 10:18:19 PM
Surr: DNOP	95.1	69-147	%Rec	1	3/6/2023 10:18:19 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/6/2023 5:51:00 PM
Surr: BFB	93.8	37.7-212	%Rec	1	3/6/2023 5:51:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	3/6/2023 5:51:00 PM
Toluene	ND	0.048	mg/Kg	1	3/6/2023 5:51:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/6/2023 5:51:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	3/6/2023 5:51:00 PM
Surr: 4-Bromofluorobenzene	92.1	70-130	%Rec	1	3/6/2023 5:51:00 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	3/6/2023 1:47:05 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- QL 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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Lab Order 2303177

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-09 0'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 3/1/2023 10:30:00 AM

 Lab ID:
 2303177-004
 Matrix: SOIL
 Received Date: 3/3/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/6/2023 10:28:57 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/6/2023 10:28:57 PM
Surr: DNOP	95.5	69-147	%Rec	1	3/6/2023 10:28:57 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/6/2023 6:12:00 PM
Surr: BFB	98.3	37.7-212	%Rec	1	3/6/2023 6:12:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	3/6/2023 6:12:00 PM
Toluene	ND	0.049	mg/Kg	1	3/6/2023 6:12:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/6/2023 6:12:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	3/6/2023 6:12:00 PM
Surr: 4-Bromofluorobenzene	96.2	70-130	%Rec	1	3/6/2023 6:12:00 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	3/6/2023 2:24:18 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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Lab Order **2303177**

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-09 2'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 3/1/2023 10:35:00 AM

 Lab ID:
 2303177-005
 Matrix: SOIL
 Received Date: 3/3/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG				Analyst: DGH	
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	3/6/2023 10:39:34 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/6/2023 10:39:34 PM
Surr: DNOP	97.6	69-147	%Rec	1	3/6/2023 10:39:34 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/6/2023 6:34:00 PM
Surr: BFB	90.5	37.7-212	%Rec	1	3/6/2023 6:34:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	3/6/2023 6:34:00 PM
Toluene	ND	0.048	mg/Kg	1	3/6/2023 6:34:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/6/2023 6:34:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	3/6/2023 6:34:00 PM
Surr: 4-Bromofluorobenzene	91.9	70-130	%Rec	1	3/6/2023 6:34:00 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	3/6/2023 2:36:43 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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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Lab Order 2303177

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-09 4'

 Project:
 Mesa Verde 7 Federal 2
 Collection Date: 3/1/2023 10:40:00 AM

 Lab ID:
 2303177-006
 Matrix: SOIL
 Received Date: 3/3/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	3/6/2023 10:50:10 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/6/2023 10:50:10 PM
Surr: DNOP	95.7	69-147	%Rec	1	3/6/2023 10:50:10 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/6/2023 6:56:00 PM
Surr: BFB	90.3	37.7-212	%Rec	1	3/6/2023 6:56:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	3/6/2023 6:56:00 PM
Toluene	ND	0.047	mg/Kg	1	3/6/2023 6:56:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	3/6/2023 6:56:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	3/6/2023 6:56:00 PM
Surr: 4-Bromofluorobenzene	94.2	70-130	%Rec	1	3/6/2023 6:56:00 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	3/6/2023 2:49:07 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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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Hall Environmental Analysis Laboratory, Inc.

10-Mar-23

2303177

WO#:

Client: Vertex Resources Services, Inc.

Project: Mesa Verde 7 Federal 2

Sample ID: MB-73517 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 73517 RunNo: 95055

Prep Date: 3/6/2023 Analysis Date: 3/6/2023 SeqNo: 3437412 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-73517 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 73517 RunNo: 95055

Prep Date: 3/6/2023 Analysis Date: 3/6/2023 SeqNo: 3437413 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.2 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of 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.

10-Mar-23

2303177

WO#:

Client: Vertex Resources Services, Inc.

Project: Mesa Verde 7 Federal 2

Sample ID: LCS-73501 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS Batch ID: 73501 RunNo: 95068

Prep Date: 3/3/2023 Analysis Date: 3/6/2023 SeqNo: 3438072 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result PQL LowLimit Qual Diesel Range Organics (DRO) 10 40 50.00 Λ 80.8 61.9 130 Surr: DNOP 4.4 5.000 88.1 147

Sample ID: MB-73501 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 73501 RunNo: 95068

Prep Date: 3/3/2023 Analysis Date: 3/6/2023 SeqNo: 3438075 Units: mg/Kg

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

 Diesel Range Organics (DRO)
 ND
 10

 Motor Oil Range Organics (MRO)
 ND
 50

 Surr: DNOP
 9.0
 10.00
 89.5
 69
 147

Sample ID: LCS-73532 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 73532 RunNo: 95077

Prep Date: 3/6/2023 Analysis Date: 3/7/2023 SeqNo: 3438281 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 4.4 5.000 87.7 69 147

Sample ID: MB-73532 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 73532 RunNo: 95077

Prep Date: 3/6/2023 Analysis Date: 3/7/2023 SeqNo: 3438285 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP 8.9 10.00 89.2 69 147

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 8 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303177** *10-Mar-23*

Client: Vertex Resources Services, Inc.

Project: Mesa Verde 7 Federal 2

Sample ID: Ics-73497 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 73497 RunNo: 95057

Prep Date: 3/3/2023 Analysis Date: 3/6/2023 SeqNo: 3437771 Units: mg/Kg

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

 Gasoline Range Organics (GRO)
 22
 5.0
 25.00
 0
 90.0
 70
 130

 Surr: BFB
 2000
 1000
 197
 37.7
 212

Sample ID: MB-73497 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 73497 RunNo: 95057

Prep Date: 3/3/2023 Analysis Date: 3/6/2023 SeqNo: 3437780 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 93.0 37.7 212

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#: **2303177** *10-Mar-23*

Client: Vertex Resources Services, Inc.

Project: Mesa Verde 7 Federal 2

Sample ID: LCS-73497	SampT	SampType: LCS TestCode: EPA Method 80				8021B: Volat	tiles			
Client ID: LCSS	Batch	n ID: 73 4	497	F	RunNo: 9	5057				
Prep Date: 3/3/2023	Analysis D	ate: 3/	6/2023	SeqNo: 3437776			Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	82.8	80	120			
Toluene	0.83	0.050	1.000	0	82.7	80	120			
Ethylbenzene	0.81	0.050	1.000	0	81.4	80	120			
Xylenes, Total	2.4	0.10	3.000	0	81.2	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		91.0	70	130			

Sample ID: MB-73497	SampT	уре: МЕ	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batcl	n ID: 73	497	F	RunNo: 9	5057				
Prep Date: 3/3/2023	Analysis D	Date: 3/	6/2023	\$	SeqNo: 3	437779	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	0.91		1.000		90.8	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- 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 Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 11/21/2025 1:59:09 PM

	120			Website: www.i	nunenvii	onmen	iai.com			
Client Name:	Vertex Reso Services, Inc		Work	Order Numbe	er: 2300	3177			RcptNo	: 1
Received By:	Tracy Casa	ırrubias	3/3/202	3 7:30:00 AM	İ					
Completed By:	Sean Livin	gston	3/3/202	3 8:10:25 AM	i		5	_L	yot-	
Reviewed By:	JA 3.3.2	3							0-	
Chain of Cus	tody									
1 Is Chain of Cu	ustody comple	ete?			Yes	v	No		Not Present	
2. How was the	sample delive	red?			Cou	<u>rier</u>				
Log In										
3. Was an attem	pt made to co	ool the samp	les?		Yes	V	No		NA 🗌	
4. Were all samp	oles received	at a tempera	ture of >0° C	to 6.0°C	Yes	V	No		na 🗆	
5. Sample(s) in p	proper contair	ner(s)?			Yes	✓	No			
6. Sufficient sam	ple volume fo	r indicated to	est(s)?		Yes	V	No			
7. Are samples (except VOA a	nd ONG) pro	operly preserv	ed?	Yes	V	No			
8. Was preserva	tive added to	bottles?			Yes		No	V	na 🗆	
9. Received at le	ast 1 vial with	headspace	<1/4" for AQ \	VOA?	Yes				NA 🗹	
10. Were any san	nple containe	rs received b	oroken?		Yes		No	V	# of preserved	
11. Does paperwo (Note discrepa			۸		Yes	V	No		bottles checked for pH:	12 unless noted)
12. Are matrices of					Yes	V	No		Adjusted?	
13. Is it clear what			_			V	No			K96, 83
14. Were all holdi					Yes	V	No		Checked by:	Klad
(If no, notify co	ustomer for au	uthorization.)	1						'	3.3.2
Special Handl	ing (if app	licable)								0.0.7
15. Was client no	tified of all dis	screpancies	with this order	?	Yes		No		NA ☑	
Person	Notified:	****		Date:		-		-		
By Who	om:			Via:	□ eM	ail 🗌] Phone [] Fax	☐ In Person	
Regardi	ing: 📮									
Client Ir	nstructions: 🚪							and the last of the last		
16. Additional rea	marks:		-							
17. Cooler Infor	mation									
Cooler No		Condition	Seal Intact	Seal No	Seal D	ate	Signed	Ву		
1	5.6	Good	Not Present				2.3		1	

			ustody Record	d	Turn-A	round	Time:					н	IAI		FI	NV	TE	20	NIN	ЛF	NT	AL	
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

April 19, 2023

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

FAX

RE: Mesa Verde 7 Federal 002 OrderNo.: 2304661

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 12 sample(s) on 4/15/2023 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

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 4/19/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-10 0'

 Project:
 Mesa Verde 7 Federal 002
 Collection Date: 4/12/2023 7:50:00 AM

 Lab ID:
 2304661-001
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 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	8.8	mg/Kg	1	4/18/2023 10:37:30 AM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	4/18/2023 10:37:30 AM
Surr: DNOP	92.9	69-147	%Rec	1	4/18/2023 10:37:30 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/18/2023 12:18:52 PM
Surr: BFB	93.9	37.7-212	%Rec	1	4/18/2023 12:18:52 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	4/18/2023 12:18:52 PM
Toluene	ND	0.050	mg/Kg	1	4/18/2023 12:18:52 PM
Ethylbenzene	ND	0.050	mg/Kg	1	4/18/2023 12:18:52 PM
Xylenes, Total	ND	0.099	mg/Kg	1	4/18/2023 12:18:52 PM
Surr: 4-Bromofluorobenzene	93.2	70-130	%Rec	1	4/18/2023 12:18:52 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	4/18/2023 11:42:43 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 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 1 of 17

Date Reported: 4/19/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-10 2'

 Project:
 Mesa Verde 7 Federal 002
 Collection Date: 4/12/2023 7:55:00 AM

 Lab ID:
 2304661-002
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 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	9.9	mg/Kg	1	4/18/2023 11:09:11 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/18/2023 11:09:11 AM
Surr: DNOP	94.3	69-147	%Rec	1	4/18/2023 11:09:11 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/18/2023 1:29:17 PM
Surr: BFB	99.2	37.7-212	%Rec	1	4/18/2023 1:29:17 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	4/18/2023 1:29:17 PM
Toluene	ND	0.048	mg/Kg	1	4/18/2023 1:29:17 PM
Ethylbenzene	ND	0.048	mg/Kg	1	4/18/2023 1:29:17 PM
Xylenes, Total	ND	0.096	mg/Kg	1	4/18/2023 1:29:17 PM
Surr: 4-Bromofluorobenzene	95.2	70-130	%Rec	1	4/18/2023 1:29:17 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	4/18/2023 12:19:43 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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

t In Range Page 2 of 17

Date Reported: 4/19/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-10 4'

 Project:
 Mesa Verde 7 Federal 002
 Collection Date: 4/12/2023 8:00:00 AM

 Lab ID:
 2304661-003
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/18/2023 11:22:05 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/18/2023 11:22:05 AM
Surr: DNOP	115	69-147	%Rec	1	4/18/2023 11:22:05 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/18/2023 2:39:30 PM
Surr: BFB	82.0	37.7-212	%Rec	1	4/18/2023 2:39:30 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	4/18/2023 2:39:30 PM
Toluene	ND	0.049	mg/Kg	1	4/18/2023 2:39:30 PM
Ethylbenzene	ND	0.049	mg/Kg	1	4/18/2023 2:39:30 PM
Xylenes, Total	ND	0.098	mg/Kg	1	4/18/2023 2:39:30 PM
Surr: 4-Bromofluorobenzene	91.4	70-130	%Rec	1	4/18/2023 2:39:30 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	4/18/2023 12:32:04 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: 4/19/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-11 0'

 Project:
 Mesa Verde 7 Federal 002
 Collection Date: 4/12/2023 8:10:00 AM

 Lab ID:
 2304661-004
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/18/2023 11:32:42 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/18/2023 11:32:42 AM
Surr: DNOP	91.8	69-147	%Rec	1	4/18/2023 11:32:42 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/18/2023 3:02:58 PM
Surr: BFB	107	37.7-212	%Rec	1	4/18/2023 3:02:58 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	4/18/2023 3:02:58 PM
Toluene	ND	0.049	mg/Kg	1	4/18/2023 3:02:58 PM
Ethylbenzene	ND	0.049	mg/Kg	1	4/18/2023 3:02:58 PM
Xylenes, Total	ND	0.099	mg/Kg	1	4/18/2023 3:02:58 PM
Surr: 4-Bromofluorobenzene	95.6	70-130	%Rec	1	4/18/2023 3:02:58 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	4/18/2023 12:44:25 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: 4/19/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-11 2'

Project: Mesa Verde 7 Federal 002 **Collection Date:** 4/12/2023 8:15:00 AM 2304661-005 Lab ID: Matrix: SOIL Received Date: 4/15/2023 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/18/2023 11:43:22 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/18/2023 11:43:22 AM
Surr: DNOP	111	69-147	%Rec	1	4/18/2023 11:43:22 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/18/2023 3:26:18 PM
Surr: BFB	93.4	37.7-212	%Rec	1	4/18/2023 3:26:18 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	4/18/2023 3:26:18 PM
Toluene	ND	0.047	mg/Kg	1	4/18/2023 3:26:18 PM
Ethylbenzene	ND	0.047	mg/Kg	1	4/18/2023 3:26:18 PM
Xylenes, Total	ND	0.093	mg/Kg	1	4/18/2023 3:26:18 PM
Surr: 4-Bromofluorobenzene	93.2	70-130	%Rec	1	4/18/2023 3:26:18 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	4/18/2023 12:56:45 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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- 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 Ε
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 4/19/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-11 4'

 Project:
 Mesa Verde 7 Federal 002
 Collection Date: 4/12/2023 8:20:00 AM

 Lab ID:
 2304661-006
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/18/2023 11:54:03 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/18/2023 11:54:03 AM
Surr: DNOP	108	69-147	%Rec	1	4/18/2023 11:54:03 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/18/2023 3:49:39 PM
Surr: BFB	94.1	37.7-212	%Rec	1	4/18/2023 3:49:39 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	4/18/2023 3:49:39 PM
Toluene	ND	0.048	mg/Kg	1	4/18/2023 3:49:39 PM
Ethylbenzene	ND	0.048	mg/Kg	1	4/18/2023 3:49:39 PM
Xylenes, Total	ND	0.096	mg/Kg	1	4/18/2023 3:49:39 PM
Surr: 4-Bromofluorobenzene	94.3	70-130	%Rec	1	4/18/2023 3:49:39 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	120	60	mg/Kg	20	4/18/2023 1:09:06 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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

ple pH Not In Range
Orting Limit Page 6 of 17

Date Reported: 4/19/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-12 0'

 Project:
 Mesa Verde 7 Federal 002
 Collection Date: 4/12/2023 8:25:00 AM

 Lab ID:
 2304661-007
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	4/18/2023 12:04:45 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	4/18/2023 12:04:45 PM
Surr: DNOP	113	69-147	%Rec	1	4/18/2023 12:04:45 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/18/2023 4:13:01 PM
Surr: BFB	86.8	37.7-212	%Rec	1	4/18/2023 4:13:01 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	4/18/2023 4:13:01 PM
Toluene	ND	0.048	mg/Kg	1	4/18/2023 4:13:01 PM
Ethylbenzene	ND	0.048	mg/Kg	1	4/18/2023 4:13:01 PM
Xylenes, Total	ND	0.096	mg/Kg	1	4/18/2023 4:13:01 PM
Surr: 4-Bromofluorobenzene	92.6	70-130	%Rec	1	4/18/2023 4:13:01 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	4/18/2023 1:21:26 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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

Page 7 of 17

Date Reported: 4/19/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-12 2'

 Project:
 Mesa Verde 7 Federal 002
 Collection Date: 4/12/2023 8:30:00 AM

 Lab ID:
 2304661-008
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	4/18/2023 12:15:29 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/18/2023 12:15:29 PM
Surr: DNOP	132	69-147	%Rec	1	4/18/2023 12:15:29 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/18/2023 4:36:26 PM
Surr: BFB	96.0	37.7-212	%Rec	1	4/18/2023 4:36:26 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	4/18/2023 4:36:26 PM
Toluene	ND	0.050	mg/Kg	1	4/18/2023 4:36:26 PM
Ethylbenzene	ND	0.050	mg/Kg	1	4/18/2023 4:36:26 PM
Xylenes, Total	ND	0.099	mg/Kg	1	4/18/2023 4:36:26 PM
Surr: 4-Bromofluorobenzene	94.3	70-130	%Rec	1	4/18/2023 4:36:26 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	61	mg/Kg	20	4/18/2023 1:33:47 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

Page 8 of 17

Date Reported: 4/19/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-12 4'

 Project:
 Mesa Verde 7 Federal 002
 Collection Date: 4/12/2023 8:35:00 AM

 Lab ID:
 2304661-009
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/18/2023 12:28:17 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/18/2023 12:28:17 PM
Surr: DNOP	92.5	69-147	%Rec	1	4/18/2023 12:28:17 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/18/2023 4:59:46 PM
Surr: BFB	88.6	37.7-212	%Rec	1	4/18/2023 4:59:46 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	4/18/2023 4:59:46 PM
Toluene	ND	0.049	mg/Kg	1	4/18/2023 4:59:46 PM
Ethylbenzene	ND	0.049	mg/Kg	1	4/18/2023 4:59:46 PM
Xylenes, Total	ND	0.098	mg/Kg	1	4/18/2023 4:59:46 PM
Surr: 4-Bromofluorobenzene	93.2	70-130	%Rec	1	4/18/2023 4:59:46 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	59	mg/Kg	20	4/18/2023 1:46:08 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

porting Limit Page 9 of 17

Date Reported: 4/19/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-13 0'

 Project:
 Mesa Verde 7 Federal 002
 Collection Date: 4/12/2023 8:45:00 AM

 Lab ID:
 2304661-010
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 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	9.3	mg/Kg	1	4/18/2023 12:38:57 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/18/2023 12:38:57 PM
Surr: DNOP	118	69-147	%Rec	1	4/18/2023 12:38:57 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/18/2023 5:23:18 PM
Surr: BFB	106	37.7-212	%Rec	1	4/18/2023 5:23:18 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	4/18/2023 5:23:18 PM
Toluene	ND	0.048	mg/Kg	1	4/18/2023 5:23:18 PM
Ethylbenzene	ND	0.048	mg/Kg	1	4/18/2023 5:23:18 PM
Xylenes, Total	ND	0.096	mg/Kg	1	4/18/2023 5:23:18 PM
Surr: 4-Bromofluorobenzene	96.0	70-130	%Rec	1	4/18/2023 5:23:18 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	4/18/2023 2:47:52 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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: 4/19/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-13 2'

 Project:
 Mesa Verde 7 Federal 002
 Collection Date: 4/12/2023 8:50:00 AM

 Lab ID:
 2304661-011
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	4/18/2023 12:49:43 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/18/2023 12:49:43 PM
Surr: DNOP	89.5	69-147	%Rec	1	4/18/2023 12:49:43 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/18/2023 6:09:56 PM
Surr: BFB	92.0	37.7-212	%Rec	1	4/18/2023 6:09:56 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	4/18/2023 6:09:56 PM
Toluene	ND	0.047	mg/Kg	1	4/18/2023 6:09:56 PM
Ethylbenzene	ND	0.047	mg/Kg	1	4/18/2023 6:09:56 PM
Xylenes, Total	ND	0.095	mg/Kg	1	4/18/2023 6:09:56 PM
Surr: 4-Bromofluorobenzene	93.4	70-130	%Rec	1	4/18/2023 6:09:56 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	4/18/2023 3:00:12 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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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Analyses

Analytical Report Lab Order 2304661

Date Reported: 4/19/2023

4/18/2023 6:33:27 PM

4/18/2023 6:33:27 PM

4/18/2023 6:33:27 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Project: Mesa Verde 7 Federal 002

Diesel Range Organics (DRO)

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Motor Oil Range Organics (MRO)

Gasoline Range Organics (GRO)

EPA METHOD 8021B: VOLATILES

EPA METHOD 8015D: GASOLINE RANGE

Lab ID: 2304661-012 **Matrix:** SOIL

EPA METHOD 8015M/D: DIESEL RANGE ORGANICS

Collection Date: 4/12/2023 8:55:00 AM

Received Date: 4/15/2023 8:40:00 AM

Client Sample ID: BH23-13 4'

mg/Kg

mg/Kg

mg/Kg

1

1

1

RL Qual Units DF **Date Analyzed** Analyst: **DGH** 4/18/2023 1:00:28 PM 10 mg/Kg 1 50 mg/Kg 1 4/18/2023 1:00:28 PM 69-147 %Rec 1 4/18/2023 1:00:28 PM Analyst: JJP 4/18/2023 6:33:27 PM 5.0 mg/Kg 1 37.7-212 %Rec 1 4/18/2023 6:33:27 PM Analyst: JJP

Xylenes, Total	ND	0.099	mg/Kg	1	4/18/2023 6:33:27 PM
Surr: 4-Bromofluorobenzene	93.3	70-130	%Rec	1	4/18/2023 6:33:27 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	4/18/2023 3:12:33 PM

Result

ND

ND

95.0

ND

89.8

ND

ND

ND

0.025

0.050

0.050

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
- QL 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#: **2304661** *19-Apr-23*

Client: Vertex Resources Services, Inc.

Project: Mesa Verde 7 Federal 002

Sample ID: MB-74385 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 74385 RunNo: 96129

Prep Date: 4/18/2023 Analysis Date: 4/18/2023 SeqNo: 3481207 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-74385 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 74385 RunNo: 96129

Prep Date: 4/18/2023 Analysis Date: 4/18/2023 SeqNo: 3481208 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.3 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#: **2304661**

19-Apr-23

Project:	Mesa Verde 7 Federal 002
Client:	Vertex Resources Services, Inc.

Sample ID: 2304661-001AMS	SampType: MS	5	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: BH23-10 0'	Batch ID: 74	349	F	RunNo: 90	6131				
Prep Date: 4/17/2023	Analysis Date: 4,	18/2023	8	SeqNo: 34	481314	Units: mg/K	ζg		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44 9.8	49.21	0	88.6	54.2	135			
Surr: DNOP	5.3	4.921		107	69	147			
Sample ID: 2304661-001AMS	SampType: M	SD	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: BH23-10 0'	Batch ID: 74	349	F	RunNo: 90	6131				
Prep Date: 4/17/2023	Analysis Date: 4,	18/2023	S	SeqNo: 34	481315	Units: mg/K	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42 9.6	47.80	0	87.3	54.2	135	4.44	29.2	
Surr: DNOP	4.7	4.780		98.4	69	147	0	0	
Sample ID: LCS-74349	SampType: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch ID: 74	349	F	RunNo: 90	6131				
Prep Date: 4/17/2023	Analysis Date: 4,	18/2023	8	SeqNo: 34	481379	Units: mg/K	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41 10	50.00	0	82.0	61.9	130			
Surr: DNOP	4.6	5.000		92.7	69	147			
Sample ID: LCS-74375	SampType: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch ID: 74	375	F	RunNo: 90	6131				
Prep Date: 4/17/2023	Analysis Date: 4,	18/2023	S	SeqNo: 34	481381	Units: %Red	C		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3	5.000		85.4	69	147			
Sample ID: MB-74349	SampType: MI	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch ID: 74			RunNo: 9 (J	
Prep Date: 4/17/2023	Analysis Date: 4			SeqNo: 34		Units: mg/K	ζg		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10	2							
Motor Oil Range Organics (MRO)	ND 50								
Surr: DNOP	10	10.00		101	69	147			
Sample ID: MB-74375	SampType: MI	BLK	Tes	tCode: E	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch ID: 74	375	F	RunNo: 90	6131		J	-	
1									

Qualifiers:

Analyte

- 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

PQL

Result

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value

%REC

LowLimit

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

SPK value SPK Ref Val

Page 14 of 17

RPDLimit

Qual

%RPD

HighLimit

Hall Environmental Analysis Laboratory, Inc.

WO#: **2304661**

19-Apr-23

Client: Vertex Resources Services, Inc.

Project: Mesa Verde 7 Federal 002

Sample ID: MB-74375 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 74375 RunNo: 96131

Prep Date: 4/17/2023 Analysis Date: 4/18/2023 SeqNo: 3481385 Units: %Rec

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

Surr: DNOP 8.7 10.00 86.6 69 147

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#: **2304661**

19-Apr-23

Client: Vertex Resources Services, Inc.

Project: Mesa Verde 7 Federal 002

Sample ID: Ics-74359	SampT	ype: LC	S	Tes	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batcl	n ID: 74 3	359	F	RunNo: 9	6123					
Prep Date: 4/17/2023	Analysis D	Date: 4/	18/2023	9	SeqNo: 3	480902	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.7	70	130				
Surr: BFB	5100		1000		507	37.7	212			S	
Sample ID: mb-74359	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	<u> </u>	

Client ID: PBS	Batch	n ID: 74 :	359	R	RunNo: 90	6123				
Prep Date: 4/17/2023	Analysis D	ate: 4/	18/2023	S	SeqNo: 34	480903	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: BEB	880		1000		87.5	37.7	212			

Sample ID: 2304661-001ams	3	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH23-10 0'	Batch	n ID: 74	359	R	RunNo: 9	6123				
Prep Date: 4/17/2023	Date: 4/	18/2023 SeqNo: 3480905			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	24.85	0	104	70	130			
Surr: BFB	5800		994.0		584	37.7	212			S

Sample ID: 2304661-001amsd	SampT	уре: М \$	SD.	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH23-10 0'	Batch	ID: 74	359	R	lunNo: 9	6123					
Prep Date: 4/17/2023	Analysis D	ate: 4/	18/2023	SeqNo: 3480906			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	25	5.0	24.90	0	101	70	130	2.77	20		
Surr: BFB	5700		996.0		571	37.7	212	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, Inc.

WO#: **2304661**

19-Apr-23

Client: Vertex Resources Services, Inc.

Project: Mesa Verde 7 Federal 002

Sample ID: LCS-74359	SampT	ype: LC	s	Tes	tCode: El					
Client ID: LCSS	Batcl	h ID: 74 3	359	F	RunNo: 9					
Prep Date: 4/17/2023	Analysis D	Date: 4/	18/2023	S	SeqNo: 3480930 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	83.7	80	120			
Toluene	0.85	0.050	1.000	0	85.1	80	120			
Ethylbenzene	0.86	0.050	1.000	0	85.6	80	120			
Xylenes, Total	2.6	0.10	3.000	0	86.8	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.2	70	130			

Sample ID: mb-74359	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: 74	359	F	RunNo: 9	6123				
Prep Date: 4/17/2023	Analysis D	oate: 4/	18/2023	8	SeqNo: 3	480931	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	0.92		1.000		92.0	70	130			

Sample ID: 2304661-002ams	Samp ⁻	Гуре: М \$	3	Tes									
Client ID: BH23-10 2'	Batc	h ID: 74	359	F	RunNo: 9								
Prep Date: 4/17/2023	Analysis [Date: 4/	18/2023	\$	SeqNo: 3480934 Units:				mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.91	0.024	0.9588	0	94.4	68.8	120						
Toluene	0.93	0.048	0.9588	0.01734	94.9	73.6	124						
Ethylbenzene	0.94	0.048	0.9588	0	98.3	72.7	129						
Xylenes, Total	2.9	0.096	2.876	0	99.5	75.7	126						
Surr: 4-Bromofluorobenzene	0.90		0.9588		94.0	70	130						

Sample ID: 2304661-002amsd	SampT	ype: MS	SD.	TestCode: EPA Method 8021B: Volatiles						
Client ID: BH23-10 2'	Batch	1D: 74 3	359	F	RunNo: 96123					
Prep Date: 4/17/2023	Analysis D	ate: 4/	18/2023	S	SeqNo: 3480935 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.024	0.9597	0	93.0	68.8	120	1.43	20	
Toluene	0.91	0.048	0.9597	0.01734	93.4	73.6	124	1.41	20	
Ethylbenzene	0.93	0.048	0.9597	0	96.8	72.7	129	1.46	20	
Xylenes, Total	2.8	0.096	2.879	0	98.0	75.7	126	1.46	20	
Surr: 4-Bromofluorobenzene	0.93		0.9597		97.0	70	130	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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: 11/21/2025 1:59:09 PM

	Website, WWW.	iallenvironmenta	i.com	
Client Name: Vertex Resources Services, Inc.	Work Order Number	er: 2304661		RcptNo: 1
Received By: Cheyenne Cason	4/15/2023 8:40:00 Al	М	Cheml	
Completed By: Cheyenne Cason	4/15/2023 9:37:04 Al	М	Chenl	
Reviewed By: JN4/17/23				
Chain of Custody				
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present
2. How was the sample delivered?		Courier		
Log In 3. Was an attempt made to cool the sample	s?	Yes 🗹	No 🗌	na 🗆
4. Were all samples received at a temperatu	re 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 tes	t(s)?	Yes 🗸	No 🗌	
7. Are samples (except VOA and ONG) prop	erly preserved?	Yes 🗹	No 🗌	
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗆
9. Received at least 1 vial with headspace <	1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹
10. Were any sample containers received bro	oken?	Yes	No 🗹	# of preserved
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗸	No 🗆	for pH: (<2 or >12 unless no
2. Are matrices correctly identified on Chain	of Custody?	Yes 🗸	No 🗌	Adjusted?
3. Is it clear what analyses were requested?		Yes 🗹	No 🗌	
14. Were all holding times able to be met?		Yes 🗹	No 🗌	Checked by:
(If no, notify customer for authorization.)			<i>\$</i>	W 4/11/23
Special Handling (if applicable)		v	,	NA ✓
15. Was client notified of all discrepancies w	th 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	
	Not Present Morty			

Client			น์ร์ใช่ฝั [™] Record	Turn-Aroun		1.0-1					НА		F	N	/TI	P (RIB		e 202 d	
		Vertex		☐ Standar	d X Rus	sh 48-hr			F										TOR	
			bill to Devon)	Project Nar	ne:					-								KAI	OR	K Y
Mailing	g Addres	ss:		Mesa Verd	e 7 Federal #	002		40	2011	المصاد						ntal.co				
				Project #:			-			лаwк 05-3							M 871	09		
Phone	#:			22E-02816-	05				ei. S	05-3	45-3					-345 Juest	-4107			
	or Fax#:			Project Man	ager:		_	<u> </u>						0.5	1100				T	
	Package	:		Kent Stalling	gs		021	MR	.s		হ		, SO ₄			sen				1
☐ Star			☐ Level 4 (Full Validation)	kstallings@v	<u>/ertex.ca</u>		8) s	150	PC		SIN		PO ₄ ,			tAb				
Accred	litation:		ompliance	Sampler:	L. Pullman		TMB's (8021)	/ DRO / MRO)	382	=	8270SIMS		NO ₂ ,			Coliform (Present/Absent)				
	C (Type)	□ Other	<u> </u>	On Ice:	Yes	1 No Morty		30/)8/s	504.	히	S			₹	(Pre				
	(,,,,,,,,			# of Coolers Cooler Temp		ym 4/16/2	MTBE	9)	cide	pol	8310	etal	S.		<u>-</u>	Ē				
						1-0.1==10	Σ	015[est	Meth	5 8	8 ₩	Ä,	Ó	šem	Olife				
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	1 II/\l. 140.	BTEX/	TPH:8015D(GRO	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by	RCRA 8 Metals	CI, Br, NO ₃ ,	8260 (VOA)	8270 (Semi-VOA)	Total C				
04/12/23	7:50	Soil	BH23-10 0'	1, 4oz jar		2304661	X		8	<u> </u>	<u>a</u>	<u> </u>	_	8	82	러	_	-		+
04/12/23	7:55	Soil	BH23-10 2'	1, 4oz jar		001	X	X		-+	\dashv	-	X	_		\dashv	_			+
04/12/23	8:00	Soil	BH23-10 4'	1, 4oz jar		GD3	X	X	-	-	\dashv	-	X	-		-	_	-		+
04/12/23	8:10	Soil	BH23-11 0'	1, 4oz jar		004	X	X		_	_	_	X	\dashv	+		+	+-		\dashv
04/12/23	8:15	Soil	BH23-11 2'	1, 4oz jar		005	X	X		_		_	X	+				+		+
04/12/23	8:20	Soil	BH23-11 4'	1, 4oz jar		ccl	Х	X		+	_		X	\dashv	+	-	-	+	-	-
04/12/23	8:25	Soil	BH23-12 0'	1, 4oz jar		007	Х	X		\dashv	_		X	-		-		+	-	+
04/12/23	8:30	Soil	BH23-12 2'	1, 4oz jar		008	X	X	_	_	+		_	-	\dashv	-		-		+
04/12/23	8:35	Soil	BH23-12 4'	1, 4oz jar		009	X	X	_	-			X	-				-		+
04/12/23	8:45	Soil	BH23-13 0'	1, 4oz jar		010		X	+	+	\dashv		X	+	-	_	-	+		+
04/12/23	8:50	Soil	BH23-13 2'	1, 4oz jar		311	X	X		+	_		X	+	_	_	_	$\dashv \dashv$		+
04/12/23 Date:	8:55 Time:	Soil	BH23-13 4'	1, 4oz jar		212	х	X	\neg	_	_		<u>^</u>	\dashv	+	+	-	+		+
1-14-73	אוויפ.	Relinquishe	1///	Received by:	Via:	Date Time	Rem													
		Relinquished		<u>umn</u>	un	4/14/33 700	Dire	ct bil	ll to	Devo	on, E	Dale	Woo	odal						
1 .	1910	A. M.	3	Received by:	Via:		cc. k	olall	mys	₩ve	rtex	.ca 1	ror F	-ınal	ı Kel	port				
14/1/2		<u> </u>	nitted to Hall Environmental may be subco	me c	and 4	114/23 0540														

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Sally Carttar Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 9/25/2025 9:38:19 AM

JOB DESCRIPTION

Mesa Verde 7 Federal 2

JOB NUMBER

885-33153-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated 9/25/2025 9:38:19 AM

Authorized for release by Andy Freeman, Business Unit Manager andy.freeman@et.eurofinsus.com (505)345-3975 3

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Client: Vertex Laboratory Job ID: 885-33153-1

Project/Site: Mesa Verde 7 Federal 2

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Definitions/Glossary

Client: Vertex Job ID: 885-33153-1

Project/Site: Mesa Verde 7 Federal 2

Minimum Level (Dioxin) Most Probable Number

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Detected at the reporting limit (or MDL or EDL if shown)

Not Calculated

Negative / Absent

Positive / Present

Presumptive Quality Control

Glossary

ML

NC

ND

NEG

POS

PQL

PRES

QC RER

RL

RPD TEF

TEQ

TNTC

MPN MQL

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit

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Case Narrative

Client: Vertex Job ID: 885-33153-1

Project: Mesa Verde 7 Federal 2

Job ID: 885-33153-1 **Eurofins Albuquerque**

> Job Narrative 885-33153-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when sitespecific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 9/12/2025 7:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.0°C.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client: Vertex Job ID: 885-33153-1

Project/Site: Mesa Verde 7 Federal 2

Client Sample ID: BS25-01 at 2.5 ft

Lab Sample ID: 885-33153-1

Date Collected: 09/09/25 12:05 Matrix: Solid Date Received: 09/12/25 07:45

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.7	mg/Kg		09/16/25 17:09	09/18/25 21:07	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			09/16/25 17:09	09/18/25 21:07	1
Method: SW846 8021B - Volatile C	Organic Comp	ounds (GC))					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		09/16/25 17:09	09/18/25 21:07	1
Ethylbenzene	ND		0.047	mg/Kg		09/16/25 17:09	09/18/25 21:07	1
Toluene	ND		0.047	mg/Kg		09/16/25 17:09	09/18/25 21:07	1
Xylenes, Total	ND		0.094	mg/Kg		09/16/25 17:09	09/18/25 21:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			09/16/25 17:09	09/18/25 21:07	1
Method: SW846 8015M/D - Diesel	Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	260		20	mg/Kg		09/18/25 10:29	09/19/25 16:34	2
Motor Oil Range Organics	370		98	mg/Kg		09/18/25 10:29	09/19/25 16:34	2
[C28-C40]								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	126		62 - 134			09/18/25 10:29	09/19/25 16:34	2

Method: EPA 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	450	50	mg/Kg		09/17/25 09:10	09/17/25 20:17	10

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Released to Imaging: 11/21/2025 1:59:09 PM

Client: Vertex Job ID: 885-33153-1

Project/Site: Mesa Verde 7 Federal 2

Client Sample ID: BS25-02 at 2ft

Date Collected: 09/09/25 12:10 Date Received: 09/12/25 07:45 Lab Sample ID: 885-33153-2

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.7	mg/Kg		09/16/25 17:09	09/18/25 21:31	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
							00//0/05 0/ 0/	
4-Bromofluorobenzene (Surr)	94		15 - 150			09/16/25 17:09	09/18/25 21:31	1
4-Bromofluorobenzene (Surr) 		ounds (GC)				09/16/25 17:09	09/18/25 21:31	1

Method: SW846 8021B - Volati Analyte	Result Qu		Unit	D	Prepared	Analyzed	Dil Fac
							- Dii i de
Benzene	ND	0.023	mg/Kg		09/16/25 17:09	09/18/25 21:31	1
Ethylbenzene	ND	0.047	mg/Kg		09/16/25 17:09	09/18/25 21:31	1
Toluene	ND	0.047	mg/Kg		09/16/25 17:09	09/18/25 21:31	1
Xylenes, Total	ND	0.093	mg/Kg		09/16/25 17:09	09/18/25 21:31	1
Surrogate	%Recovery Qu	ualifier Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96				09/16/25 17:09	09/18/25 21:31	1

Method: SW846 8015M/D - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	130		19	mg/Kg		09/18/25 10:29	09/19/25 17:11	2
Motor Oil Range Organics [C28-C40]	200		97	mg/Kg		09/18/25 10:29	09/19/25 17:11	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	118		62 - 134			09/18/25 10:29	09/19/25 17:11	2

Method: EPA 300.0 - Anions, Ion Cl	hromatography						
Analyte	Result Qualif	fier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	610	50	mg/Kg		09/17/25 09:10	09/17/25 20:28	10

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Client: Vertex Job ID: 885-33153-1

Project/Site: Mesa Verde 7 Federal 2

Client Sample ID: BS25-03 at 2ft

Date Collected: 09/09/25 12:15 Date Received: 09/12/25 07:45 Lab Sample ID: 885-33153-3

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.6	mg/Kg		09/16/25 17:09	09/18/25 21:55	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 - 150			09/16/25 17:09	09/18/25 21:55	1
Method: SW846 8021B - Volati Analyte		ounds (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
				Unit	D	Prepared	Analyzed	Dil Fac
				Unit mg/Kg	<u>D</u>	Prepared 09/16/25 17:09	Analyzed 09/18/25 21:55	Dil Fac
Analyte	Result		RL		<u>D</u>			Dil Fac
Analyte Benzene	Result ND			mg/Kg	<u>D</u>	09/16/25 17:09	09/18/25 21:55	Dil Fac 1 1 1
Analyte Benzene Ethylbenzene	Result ND ND		0.023 0.046	mg/Kg	<u>D</u>	09/16/25 17:09 09/16/25 17:09	09/18/25 21:55 09/18/25 21:55	Dil Fac 1 1 1 1
Analyte Benzene Ethylbenzene Toluene	Result ND ND ND	Qualifier	0.023 0.046 0.046	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/16/25 17:09 09/16/25 17:09 09/16/25 17:09	09/18/25 21:55 09/18/25 21:55 09/18/25 21:55	Dil Fac 1 1 1 1 1 Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		09/18/25 10:29	09/19/25 00:55	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/18/25 10:29	09/19/25 00:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	102		62 - 134			09/18/25 10:29	09/19/25 00:55	1

mothod: El A 000.0 Amono,	ion omatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140	49	mg/Kg		09/17/25 09:10	09/17/25 20:38	10

Eurofins Albuquerque

Client: Vertex Job ID: 885-33153-1

Project/Site: Mesa Verde 7 Federal 2

Client Sample ID: BS25-04 at 2ft

Date Collected: 09/09/25 12:20 Date Received: 09/12/25 07:45

Di-n-octyl phthalate (Surr)

Analyte

Chloride

Method: EPA 300.0 - Anions, Ion Chromatography

Lab Sample ID: 885-33153-4

09/18/25 10:29 09/19/25 01:19

Analyzed

09/17/25 20:48

Dil Fac

10

Prepared

09/17/25 09:10

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.7	mg/Kg		09/16/25 17:09	09/18/25 22:18	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			09/16/25 17:09	09/18/25 22:18	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/16/25 17:09	09/18/25 22:18	1
Ethylbenzene	ND		0.047	mg/Kg		09/16/25 17:09	09/18/25 22:18	1
Toluene	ND		0.047	mg/Kg		09/16/25 17:09	09/18/25 22:18	1
Xylenes, Total	ND		0.095	mg/Kg		09/16/25 17:09	09/18/25 22:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			09/16/25 17:09	09/18/25 22:18	1
- Method: SW846 8015M/D - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	22		9.7	mg/Kg		09/18/25 10:29	09/19/25 01:19	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/18/25 10:29	09/19/25 01:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

62 - 134

RL

50

Unit

mg/Kg

106

140

Result Qualifier

Eurofins Albuquerque

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9

Client: Vertex Job ID: 885-33153-1

Project/Site: Mesa Verde 7 Federal 2

Date Received: 09/12/25 07:45

Toluene

Xylenes, Total

Client Sample ID: BS25-05 at 2ft

Lab Sample ID: 885-33153-5 Date Collected: 09/09/25 12:25

Matrix: Solid

09/16/25 17:09

09/16/25 17:09

09/18/25 22:42

09/18/25 22:42

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.8	mg/Kg		09/16/25 17:09	09/18/25 22:42	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			09/16/25 17:09	09/18/25 22:42	1
Method: SW846 8021B - Volat	ile Organic Comp	ounds (GC)						
Method: SW846 8021B - Volat Analyte		ounds (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
				Unit mg/Kg	<u>D</u>	Prepared 09/16/25 17:09	Analyzed 09/18/25 22:42	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150	09/16/25 17:09	09/18/25 22:42	1

0.048

0.095

mg/Kg

mg/Kg

ND

ND

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		09/18/25 10:29	09/19/25 01:43	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		09/18/25 10:29	09/19/25 01:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	111		62 - 134			09/18/25 10:29	09/19/25 01:43	1

Method: EPA 300.0 - Anions, Ion Cl	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	50	mg/Kg		09/17/25 09:10	09/17/25 20:59	10

Client: Vertex Job ID: 885-33153-1

Project/Site: Mesa Verde 7 Federal 2

Client Sample ID: BS25-06 at 2ft

Lab Sample ID: 885-33153-6 Date Collected: 09/09/25 12:30

Matrix: Solid

09/17/25 16:24 09/17/25 21:30

Date Received: 09/12/25 07:45

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		5.0	mg/Kg		09/16/25 18:08	09/19/25 02:15	1
GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Bromofluorobenzene (Surr)	105		15 - 150			09/16/25 18:08	09/19/25 02:15	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/16/25 18:08	09/19/25 02:15	1
Ethylbenzene	ND		0.050	mg/Kg		09/16/25 18:08	09/19/25 02:15	1
Toluene	ND		0.050	mg/Kg		09/16/25 18:08	09/19/25 02:15	1
Kylenes, Total	ND		0.10	mg/Kg		09/16/25 18:08	09/22/25 19:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			09/16/25 18:08	09/19/25 02:15	1
4-Bromofluorobenzene (Surr)	96		15 - 150			09/16/25 18:08	09/22/25 19:36	1
Method: SW846 8015M/D - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	17		9.4	mg/Kg		09/18/25 10:29	09/19/25 02:07	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/18/25 10:29	09/19/25 02:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			09/18/25 10:29	09/19/25 02:07	1

50

mg/Kg

68

Chloride

Client: Vertex Job ID: 885-33153-1

Project/Site: Mesa Verde 7 Federal 2

Client Sample ID: WS25-01 at 0-2ft

Lab Sample ID: 885-33153-7

Matrix: Solid

09/17/25 16:24

09/17/25 21:40

Date Collected: 09/09/25 12:35 Date Received: 09/12/25 07:45

ND **Recovery**		4.9	mg/Kg		09/16/25 18:08	09/19/25 03:26	
%Recovery					09/10/23 10:00	09/19/25 03:26	1
%Recovery							
	Qualifier	Limits			Prepared	Analyzed	Dil Fac
98		15 - 150			09/16/25 18:08	09/19/25 03:26	1
ganic Comp	ounds (GC))					
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
ND		0.025	mg/Kg		09/16/25 18:08	09/19/25 03:26	1
ND		0.049	mg/Kg		09/16/25 18:08	09/19/25 03:26	1
ND		0.049	mg/Kg		09/16/25 18:08	09/19/25 03:26	1
ND		0.099	mg/Kg		09/16/25 18:08	09/19/25 03:26	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
98		15 - 150			09/16/25 18:08	09/19/25 03:26	1
ange Organ	ics (DRO) (GC)					
-		RL	Unit	D	Prepared	Analyzed	Dil Fac
36		9.5	mg/Kg		09/18/25 10:29	09/19/25 02:54	1
ND		47	mg/Kg		09/18/25 10:29	09/19/25 02:54	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
95		62 - 134			09/18/25 10:29	09/19/25 02:54	1
	Result ND ND ND ND **Recovery 98 Range Organ Result 36 ND **Recovery 95	Result ND	ND	Result Qualifier RL Unit mg/Kg mg/	Result Qualifier RL Unit D	Result Qualifier RL Unit D Prepared	ND

50

990

mg/Kg

Chloride

Client: Vertex Job ID: 885-33153-1

Project/Site: Mesa Verde 7 Federal 2

Client Sample ID: WS25-02 at 0-2ft

Date Collected: 09/09/25 12:40

Date Received: 09/12/25 07:45

Toluene

Xylenes, Total

Lab Sample ID: 885-33153-8

09/19/25 04:37

09/19/25 04:37

09/16/25 18:08

09/16/25 18:08

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.7	mg/Kg		09/16/25 18:08	09/19/25 04:37	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			09/16/25 18:08	09/19/25 04:37	1
-	Ormania Cama	ounds (GC)	1					
Method: SW846 8021B - Volatile	Organic Comp	ounus (OC)	·					
Method: SW846 8021B - Volatile Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
		• • •		Unit mg/Kg	<u>D</u>	Prepared 09/16/25 18:08	Analyzed 09/19/25 04:37	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 150	09/16/25 18:08	09/19/25 04:37	1

0.047

0.094

mg/Kg

mg/Kg

ND

ND

Method: SW846 8015M/D - Diesel	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		09/18/25 10:29	09/19/25 03:18	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		09/18/25 10:29	09/19/25 03:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	98		62 - 134			09/18/25 10:29	09/19/25 03:18	1

Method: EPA 300.0 - Anions, Ion Cl	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190	50	mg/Kg		09/17/25 16:24	09/17/25 22:52	10

Client: Vertex Job ID: 885-33153-1

Project/Site: Mesa Verde 7 Federal 2

Client Sample ID: WS25-03 at 0-2ft

Date Collected: 09/09/25 12:45 Date Received: 09/12/25 07:45

4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-33153-9

09/19/25 05:01

09/16/25 18:08

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.9	mg/Kg		09/16/25 18:08	09/19/25 05:01	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			09/16/25 18:08	09/19/25 05:01	1
- Method: SW846 8021B - Volat	•	, ,						
	•	ounds (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	•	, ,		Unit mg/Kg	<u>D</u>	Prepared 09/16/25 18:08	Analyzed 09/19/25 05:01	Dil Fac
Method: SW846 8021B - Volat Analyte Benzene Ethylbenzene	Result	, ,	RL		<u>D</u>			Dil Fac 1 1
Analyte Benzene	Result ND	, ,	RL 0.025	mg/Kg	<u>D</u>	09/16/25 18:08	09/19/25 05:01	Dil Fac 1 1 1
Analyte Benzene Ethylbenzene	Result ND ND	, ,	0.025 0.049	mg/Kg	<u>D</u>	09/16/25 18:08 09/16/25 18:08	09/19/25 05:01 09/19/25 05:01	Dil Fac 1 1 1 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		09/18/25 10:29	09/19/25 03:42	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		09/18/25 10:29	09/19/25 03:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134			09/18/25 10:29	09/19/25 03:42	1

15 - 150

100

method. El A 600.0 - Amons, fon omethography							
Analyte	Result Qua	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100	49	mg/Kg		09/17/25 16:24	09/17/25 23:03	10

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Client: Vertex Job ID: 885-33153-1

Project/Site: Mesa Verde 7 Federal 2

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-34794/1-A Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Solid Analysis Batch: 34937

Prep Batch: 34794

MB MB Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Gasoline Range Organics ND 5.0 mg/Kg 09/16/25 17:09 09/18/25 12:53

(GRO)-C6-C10

Surrogate

MB MB %Recovery Limits Qualifier Prepared Analyzed Dil Fac 09/16/25 17:09 15 - 150 09/18/25 12:53 94

Lab Sample ID: LCS 885-34794/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

4-Bromofluorobenzene (Surr)

Analysis Batch: 34937

Prep Type: Total/NA Prep Batch: 34794

Spike LCS LCS Analyte babbA Result Qualifier Limits Unit D %Rec Gasoline Range Organics 25.0 22.4 mg/Kg 89 70 - 130

(GRO)-C6-C10

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 193 15 - 150

Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Lab Sample ID: MB 885-34801/1-A

Analysis Batch: 35000

мв мв

MB MB

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac ND 5.0 mg/Kg 09/16/25 18:08 09/19/25 00:40 Gasoline Range Organics

(GRO)-C6-C10

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 97 15 - 150 09/16/25 18:08 09/19/25 00:40

Lab Sample ID: LCS 885-34801/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 35000

Prep Type: Total/NA Prep Batch: 34801 Spike LCS LCS

Analyte Added Result Qualifier Unit D %Rec Limits 25.0 Gasoline Range Organics 22.7 mg/Kg 91 70 - 130

(GRO)-C6-C10

LCS LCS

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 198 15 - 150

Lab Sample ID: 885-33153-6 MSD Client Sample ID: BS25-06 at 2ft

Matrix: Solid

Analysis Batch: 35000

Prep Batch: 34801 MSD MSD RPD Sample Sample Spike %Rec Result Qualifier Added Result Qualifier Unit Limits RPD %Rec Limit Gasoline Range Organics ND 24.8 22.3 90 70 - 130 mg/Kg

(GRO)-C6-C10

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Prep Batch: 34801

%Rec

Prep Type: Total/NA

Job ID: 885-33153-1 Client: Vertex

Project/Site: Mesa Verde 7 Federal 2

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

MSD MSD

Lab Sample ID: 885-33153-6 MSD **Matrix: Solid**

Analysis Batch: 35000

Client Sample ID: BS25-06 at 2ft Prep Type: Total/NA

Prep Batch: 34801

4-Bromofluorobenzene (Surr) 194

Lab Sample ID: 885-33153-A-6-B MS

Analysis Batch: 35000

Matrix: Solid

Surrogate

%Recovery Qualifier Limits 15 - 150

Client Sample ID: 885-33153-A-6-B MS

Prep Type: Total/NA Prep Batch: 34801

%Rec

MS MS Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics ND 24.9 24.1 mg/Kg 97 70 - 130

(GRO)-C6-C10

MS MS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 199 15 - 150

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-34794/1-A

Matrix: Solid

Analysis Batch: 34938

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 34794

MB MB

Analyte Qualifier RL Unit D Prepared Analyzed Dil Fac Result Benzene ND 0.025 mg/Kg 09/16/25 17:09 09/18/25 12:53 Ethylbenzene ND 0.050 mg/Kg 09/16/25 17:09 09/18/25 12:53 Toluene ND 0.050 mg/Kg 09/16/25 17:09 09/18/25 12:53 ND 0.10 09/16/25 17:09 09/18/25 12:53 Xvlenes, Total mg/Kg

MB MB

Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 102 15 - 150 09/16/25 17:09 09/18/25 12:53

Lab Sample ID: LCS 885-34794/3-A

Matrix: Solid

Analysis Batch: 34938

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34794

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Benzene 1.00 1.04 mg/Kg 104 70 - 130 1.00 Ethylbenzene 1.04 mg/Kg 104 70 - 130 m-Xylene & p-Xylene 2.00 2.09 mg/Kg 104 70 - 130 1 00 1.04 104 70 - 130 o-Xylene mg/Kg Toluene 1.00 1.03 mg/Kg 103 70 - 130

LCS LCS

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 15 _ 150 105

Lab Sample ID: MB 885-34801/1-A

Matrix: Solid

Analysis Batch: 34999

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34801

мв мв

Dil Fac Result Qualifier RL Unit Analyte Prepared Analyzed 0.025 09/16/25 18:08 09/19/25 00:40 Benzene ND mg/Kg

Client: Vertex

Job ID: 885-33153-1

Project/Site: Mesa Verde 7 Federal 2

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-34801/1-A **Matrix: Solid**

Analysis Batch: 34999

Client Sample ID: Method Blank

09/19/25 00:40

Prep Type: Total/NA

Prep Batch: 34801

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.050	mg/Kg		09/16/25 18:08	09/19/25 00:40	1
Toluene	ND		0.050	mg/Kg		09/16/25 18:08	09/19/25 00:40	1
Xylenes, Total	ND		0.10	mg/Kg		09/16/25 18:08	09/19/25 00:40	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

15 - 150

Lab Sample ID: LCS 885-34801/3-A

Matrix: Solid

Analysis Batch: 34999

4-Bromofluorobenzene (Surr)

Client Sample ID: Lab Control Sample Prep Type: Total/NA

09/16/25 18:08

Prep Batch: 34801

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	1.00	1.01		mg/Kg		101	70 - 130	
Ethylbenzene	1.00	0.998		mg/Kg		100	70 - 130	
m-Xylene & p-Xylene	2.00	2.00		mg/Kg		100	70 - 130	
o-Xylene	1.00	1.00		mg/Kg		100	70 - 130	
Toluene	1.00	1.00		mg/Kg		100	70 - 130	

LCS LCS

107

100

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 15 - 150 101

Lab Sample ID: 885-33153-7 MS

Matrix: Solid

Analysis Batch: 34999

Client Sample ID: WS25-01 at 0-2ft

Prep Type: Total/NA

Prep Batch: 34801

Analysis Batom 64000									1.100 -	uton. 0400 i
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	ND		0.994	1.03		mg/Kg		103	70 - 130	
Ethylbenzene	ND		0.994	1.02		mg/Kg		102	70 - 130	
m-Xylene & p-Xylene	ND		1.99	2.06		mg/Kg		102	70 - 130	
o-Xylene	ND		0.994	1.01		mg/Kg		100	70 - 130	
Toluene	ND		0.994	1.02		mg/Kg		103	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							

15 - 150

Lab Sample ID: 885-33153-7 MSD

Matrix: Solid

Analysis Batch: 34999

4-Bromofluorobenzene (Surr)

Client Sample ID: WS25-01 at 0-2ft

Prep Type: Total/NA

Prep Batch: 34801

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		0.998	0.940		mg/Kg		94	70 - 130	9	20
Ethylbenzene	ND		0.998	0.939		mg/Kg		93	70 - 130	9	20
m-Xylene & p-Xylene	ND		2.00	1.88		mg/Kg		93	70 - 130	9	20
o-Xylene	ND		0.998	0.937		mg/Kg		93	70 - 130	7	20
Toluene	ND		0.998	0.948		mg/Kg		95	70 - 130	8	20

Job ID: 885-33153-1

Project/Site: Mesa Verde 7 Federal 2

Lab Sample ID: 885-33153-7 MSD

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Client: Vertex

Analysis Batch: 34999

Client Sample ID: WS25-01 at 0-2ft Prep Type: Total/NA

Prep Batch: 34801

MSD MSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 15 - 150

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-34935/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 34917

Prep Type: Total/NA

Prep Batch: 34935

Prep Batch: 34935

MB MB Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Diesel Range Organics [C10-C28] 09/18/25 10:28 ND 10 mg/Kg 09/18/25 17:47 Motor Oil Range Organics [C28-C40] ND 50 09/18/25 10:28 09/18/25 17:47 mg/Kg

MB MB

%Recovery Limits Qualifier Dil Fac Surrogate Prepared Analyzed 09/18/25 10:28 Di-n-octyl phthalate (Surr) 110 62 - 134 09/18/25 17:47

Lab Sample ID: LCS 885-34935/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 34917

Spike LCS LCS %Rec

Analyte Added Result Qualifier Unit D %Rec Limits Diesel Range Organics 50.0 47.8 96 51 - 148 mg/Kg

[C10-C28]

LCS LCS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 93 62 - 134

Lab Sample ID: MB 885-34979/1-A Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 35011** Prep Batch: 34979 мв мв

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 0.50 09/18/25 14:42 Diesel Range Organics [C10-C28] ND mg/Kg 09/19/25 16:10

> MΒ MB

Dil Fac %Recovery Qualifier Limits Surrogate Prepared Analyzed Di-n-octyl phthalate (Surr) 122 62 - 134 09/18/25 14:42 09/19/25 16:10

Lab Sample ID: LCS 885-34979/2-A

Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 35011 Prep Batch: 34979

LCS LCS Spike Result Qualifier Analyte Added Limits Unit D %Rec Diesel Range Organics 2.50 3.22 129 51 - 148 mg/Kg

[C10-C28]

LCS LCS

Released to Imaging: 11/21/2025 1:59:09 PM

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 128 62 - 134

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%Rec

Client Sample ID: Method Blank

Analyzed

09/17/25 10:14

Client Sample ID: Lab Control Sample

%Rec

Limits

90 - 110

Client Sample ID: Method Blank

Analyzed

09/17/25 21:09

Client Sample ID: Lab Control Sample

%Rec

Limits

90 - 110

Limits

50 - 150

%Rec

Client Sample ID: BS25-06 at 2ft

Client Sample ID: BS25-06 at 2ft

Prep Type: Total/NA

Prep Batch: 34890

RPD

Limit

20

Prep Batch: 34890

Prep Batch: 34890

Prep Batch: 34890

Dil Fac

Prep Batch: 34813

Prep Batch: 34813

Dil Fac

Client: Vertex Job ID: 885-33153-1

RL

5.0

RL

5.1

Spike

Added

50.5

Spike

Added

50.2

Spike

Added

49.5

Unit

LCS LCS

LCS LCS

MS MS

122

Result Qualifier

Qualifier

Result

49.2

Result

49.2

Qualifier

Unit

mg/Kg

mg/Kg

Unit

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

D

D

Prepared

09/17/25 09:10

%Rec

Prepared

09/17/25 16:24

%Rec

%Rec

110

D

97

D

Project/Site: Mesa Verde 7 Federal 2

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-34813/1-A **Matrix: Solid**

Analysis Batch: 34808

Chloride

Chloride

Matrix: Solid

MB MB

ND

Analyte Result Qualifier

Lab Sample ID: LCS 885-34813/2-A

Analysis Batch: 34808

Analyte

Lab Sample ID: MB 885-34890/1-A **Matrix: Solid**

Analysis Batch: 34808

мв мв

Analyte Result

Qualifier Chloride ND

Lab Sample ID: LCS 885-34890/2-A **Matrix: Solid**

Analysis Batch: 34808

Analyte Chloride

Lab Sample ID: 885-33153-6 MS

Matrix: Solid

Analysis Batch: 34808

Analyte

Chloride

Lab Sample ID: 885-33153-6 MSD

Matrix: Solid

Analysis Batch: 34808

Sample Sample Result Qualifier Analyte Chloride

68

Sample Sample

Qualifier

Result

68

Added 50.0

Spike MSD MSD Result Qualifier 118

Unit mg/Kg

D

%Rec Limits 99

RPD 50 - 150

Client: Vertex

Project/Site: Mesa Verde 7 Federal 2

Job ID: 885-33153-1

GC VOA

Prep Batch: 34794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33153-1	BS25-01 at 2.5 ft	Total/NA	Solid	5030C	
885-33153-2	BS25-02 at 2ft	Total/NA	Solid	5030C	
885-33153-3	BS25-03 at 2ft	Total/NA	Solid	5030C	
885-33153-4	BS25-04 at 2ft	Total/NA	Solid	5030C	
885-33153-5	BS25-05 at 2ft	Total/NA	Solid	5030C	
MB 885-34794/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-34794/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-34794/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 34801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33153-6	BS25-06 at 2ft	Total/NA	Solid	5030C	
885-33153-7	WS25-01 at 0-2ft	Total/NA	Solid	5030C	
885-33153-8	WS25-02 at 0-2ft	Total/NA	Solid	5030C	
885-33153-9	WS25-03 at 0-2ft	Total/NA	Solid	5030C	
MB 885-34801/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-34801/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-34801/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-33153-6 MSD	BS25-06 at 2ft	Total/NA	Solid	5030C	
885-33153-7 MS	WS25-01 at 0-2ft	Total/NA	Solid	5030C	
885-33153-7 MSD	WS25-01 at 0-2ft	Total/NA	Solid	5030C	
885-33153-A-6-B MS	885-33153-A-6-B MS	Total/NA	Solid	5030C	

Analysis Batch: 34937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33153-1	BS25-01 at 2.5 ft	Total/NA	Solid	8015M/D	34794
885-33153-2	BS25-02 at 2ft	Total/NA	Solid	8015M/D	34794
885-33153-3	BS25-03 at 2ft	Total/NA	Solid	8015M/D	34794
885-33153-4	BS25-04 at 2ft	Total/NA	Solid	8015M/D	34794
885-33153-5	BS25-05 at 2ft	Total/NA	Solid	8015M/D	34794
MB 885-34794/1-A	Method Blank	Total/NA	Solid	8015M/D	34794
LCS 885-34794/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	34794

Analysis Batch: 34938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33153-1	BS25-01 at 2.5 ft	Total/NA	Solid	8021B	34794
885-33153-2	BS25-02 at 2ft	Total/NA	Solid	8021B	34794
885-33153-3	BS25-03 at 2ft	Total/NA	Solid	8021B	34794
885-33153-4	BS25-04 at 2ft	Total/NA	Solid	8021B	34794
885-33153-5	BS25-05 at 2ft	Total/NA	Solid	8021B	34794
MB 885-34794/1-A	Method Blank	Total/NA	Solid	8021B	34794
LCS 885-34794/3-A	Lab Control Sample	Total/NA	Solid	8021B	34794

Analysis Batch: 34999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33153-6	BS25-06 at 2ft	Total/NA	Solid	8021B	34801
885-33153-7	WS25-01 at 0-2ft	Total/NA	Solid	8021B	34801
885-33153-8	WS25-02 at 0-2ft	Total/NA	Solid	8021B	34801
885-33153-9	WS25-03 at 0-2ft	Total/NA	Solid	8021B	34801
MB 885-34801/1-A	Method Blank	Total/NA	Solid	8021B	34801
LCS 885-34801/3-A	Lab Control Sample	Total/NA	Solid	8021B	34801

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Client: Vertex Job ID: 885-33153-1

Project/Site: Mesa Verde 7 Federal 2

GC VOA (Continued)

Analysis Batch: 34999 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33153-7 MS	WS25-01 at 0-2ft	Total/NA	Solid	8021B	34801
885-33153-7 MSD	WS25-01 at 0-2ft	Total/NA	Solid	8021B	34801

Analysis Batch: 35000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33153-6	BS25-06 at 2ft	Total/NA	Solid	8015M/D	34801
885-33153-7	WS25-01 at 0-2ft	Total/NA	Solid	8015M/D	34801
885-33153-8	WS25-02 at 0-2ft	Total/NA	Solid	8015M/D	34801
885-33153-9	WS25-03 at 0-2ft	Total/NA	Solid	8015M/D	34801
MB 885-34801/1-A	Method Blank	Total/NA	Solid	8015M/D	34801
LCS 885-34801/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	34801
885-33153-6 MSD	BS25-06 at 2ft	Total/NA	Solid	8015M/D	34801
885-33153-A-6-B MS	885-33153-A-6-B MS	Total/NA	Solid	8015M/D	34801

Analysis Batch: 35162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33153-6	BS25-06 at 2ft	Total/NA	Solid	8021B	34801

GC Semi VOA

Analysis Batch: 34917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33153-3	BS25-03 at 2ft	Total/NA	Solid	8015M/D	34935
885-33153-4	BS25-04 at 2ft	Total/NA	Solid	8015M/D	34935
885-33153-5	BS25-05 at 2ft	Total/NA	Solid	8015M/D	34935
885-33153-6	BS25-06 at 2ft	Total/NA	Solid	8015M/D	34935
885-33153-7	WS25-01 at 0-2ft	Total/NA	Solid	8015M/D	34935
885-33153-8	WS25-02 at 0-2ft	Total/NA	Solid	8015M/D	34935
885-33153-9	WS25-03 at 0-2ft	Total/NA	Solid	8015M/D	34935
MB 885-34935/1-A	Method Blank	Total/NA	Solid	8015M/D	34935
LCS 885-34935/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	34935

Prep Batch: 34935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
885-33153-1	BS25-01 at 2.5 ft	Total/NA	Solid	SHAKE	
885-33153-2	BS25-02 at 2ft	Total/NA	Solid	SHAKE	
885-33153-3	BS25-03 at 2ft	Total/NA	Solid	SHAKE	
885-33153-4	BS25-04 at 2ft	Total/NA	Solid	SHAKE	
885-33153-5	BS25-05 at 2ft	Total/NA	Solid	SHAKE	
885-33153-6	BS25-06 at 2ft	Total/NA	Solid	SHAKE	
885-33153-7	WS25-01 at 0-2ft	Total/NA	Solid	SHAKE	
885-33153-8	WS25-02 at 0-2ft	Total/NA	Solid	SHAKE	
885-33153-9	WS25-03 at 0-2ft	Total/NA	Solid	SHAKE	
MB 885-34935/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-34935/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Prep Batch: 34979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-34979/1-A	Method Blank	Total/NA	Solid	3511	
LCS 885-34979/2-A	Lab Control Sample	Total/NA	Solid	3511	

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Client: Vertex Job ID: 885-33153-1

Project/Site: Mesa Verde 7 Federal 2

GC Semi VOA

Analysis Batch: 35011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33153-1	BS25-01 at 2.5 ft	Total/NA	Solid	8015M/D	34935
885-33153-2	BS25-02 at 2ft	Total/NA	Solid	8015M/D	34935
MB 885-34979/1-A	Method Blank	Total/NA	Solid	8015M/D	34979
LCS 885-34979/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	34979

HPLC/IC

Analysis Batch: 34808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33153-1	BS25-01 at 2.5 ft	Total/NA	Solid	300.0	34813
885-33153-2	BS25-02 at 2ft	Total/NA	Solid	300.0	34813
885-33153-3	BS25-03 at 2ft	Total/NA	Solid	300.0	34813
885-33153-4	BS25-04 at 2ft	Total/NA	Solid	300.0	34813
885-33153-5	BS25-05 at 2ft	Total/NA	Solid	300.0	34813
885-33153-6	BS25-06 at 2ft	Total/NA	Solid	300.0	34890
885-33153-7	WS25-01 at 0-2ft	Total/NA	Solid	300.0	34890
885-33153-8	WS25-02 at 0-2ft	Total/NA	Solid	300.0	34890
885-33153-9	WS25-03 at 0-2ft	Total/NA	Solid	300.0	34890
MB 885-34813/1-A	Method Blank	Total/NA	Solid	300.0	34813
MB 885-34890/1-A	Method Blank	Total/NA	Solid	300.0	34890
LCS 885-34813/2-A	Lab Control Sample	Total/NA	Solid	300.0	34813
LCS 885-34890/2-A	Lab Control Sample	Total/NA	Solid	300.0	34890
885-33153-6 MS	BS25-06 at 2ft	Total/NA	Solid	300.0	34890
885-33153-6 MSD	BS25-06 at 2ft	Total/NA	Solid	300.0	34890

Prep Batch: 34813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33153-1	BS25-01 at 2.5 ft	Total/NA	Solid	300_Prep	
885-33153-2	BS25-02 at 2ft	Total/NA	Solid	300_Prep	
885-33153-3	BS25-03 at 2ft	Total/NA	Solid	300_Prep	
885-33153-4	BS25-04 at 2ft	Total/NA	Solid	300_Prep	
885-33153-5	BS25-05 at 2ft	Total/NA	Solid	300_Prep	
MB 885-34813/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-34813/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Prep Batch: 34890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33153-6	BS25-06 at 2ft	Total/NA	Solid	300_Prep	
885-33153-7	WS25-01 at 0-2ft	Total/NA	Solid	300_Prep	
885-33153-8	WS25-02 at 0-2ft	Total/NA	Solid	300_Prep	
885-33153-9	WS25-03 at 0-2ft	Total/NA	Solid	300_Prep	
MB 885-34890/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-34890/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-33153-6 MS	BS25-06 at 2ft	Total/NA	Solid	300_Prep	
885-33153-6 MSD	BS25-06 at 2ft	Total/NA	Solid	300_Prep	

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Client Sample ID: BS25-01 at 2.5 ft

Date Collected: 09/09/25 12:05 Date Received: 09/12/25 07:45

Client: Vertex

Lab Sample ID: 885-33153-1

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			34794	JP	EET ALB	09/16/25 17:09
Total/NA	Analysis	8015M/D		1	34937	JP	EET ALB	09/18/25 21:07
Total/NA	Prep	5030C			34794	JP	EET ALB	09/16/25 17:09
Total/NA	Analysis	8021B		1	34938	JP	EET ALB	09/18/25 21:07
Total/NA	Prep	SHAKE			34935	BZR	EET ALB	09/18/25 10:29
Total/NA	Analysis	8015M/D		2	35011	DR	EET ALB	09/19/25 16:34
Total/NA	Prep	300_Prep			34813	RC	EET ALB	09/17/25 09:10
Total/NA	Analysis	300.0		10	34808	RC	EET ALB	09/17/25 20:17

Client Sample ID: BS25-02 at 2ft

Date Collected: 09/09/25 12:10

Date Received: 09/12/25 07:45

Lab Sample ID: 885-33153-2

Matrix: Solid

Batch Dilution Batch Batch Prepared or Analyzed **Prep Type** Type Method Run Factor Number Analyst Lab Total/NA 5030C 34794 EET ALB 09/16/25 17:09 Prep JΡ Total/NA 8015M/D 09/18/25 21:31 Analysis 1 34937 JP **EET ALB** Total/NA 5030C **EET ALB** 09/16/25 17:09 Prep 34794 JP Total/NA Analysis 8021B 1 34938 JΡ **EET ALB** 09/18/25 21:31 Total/NA SHAKE 34935 BZR **EET ALB** 09/18/25 10:29 Prep Total/NA Analysis 8015M/D 2 35011 DR **EET ALB** 09/19/25 17:11 Total/NA EET ALB Prep 300_Prep 34813 RC 09/17/25 09:10 Total/NA Analysis 300.0 10 34808 RC **EET ALB** 09/17/25 20:28

Client Sample ID: BS25-03 at 2ft

Date Collected: 09/09/25 12:15

Date Received: 09/12/25 07:45

Lab Sample	le ID: 885-33153-3	
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Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			34794	JP	EET ALB	09/16/25 17:09
Total/NA	Analysis	8015M/D		1	34937	JP	EET ALB	09/18/25 21:55
Total/NA	Prep	5030C			34794	JP	EET ALB	09/16/25 17:09
Total/NA	Analysis	8021B		1	34938	JP	EET ALB	09/18/25 21:55
Total/NA	Prep	SHAKE			34935	BZR	EET ALB	09/18/25 10:29
Total/NA	Analysis	8015M/D		1	34917	BZR	EET ALB	09/19/25 00:55
Total/NA	Prep	300_Prep			34813	RC	EET ALB	09/17/25 09:10
Total/NA	Analysis	300.0		10	34808	RC	EET ALB	09/17/25 20:38

Client Sample ID: BS25-04 at 2ft

Date Collected: 09/09/25 12:20

Date Received: 09/12/25 07:45

Lab Sam	ple	ID:	885	-331	53-4
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Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			34794	JP	EET ALB	09/16/25 17:09
Total/NA	Analysis	8015M/D		1	34937	JP	EET ALB	09/18/25 22:18

Client Sample ID: BS25-04 at 2ft

Date Collected: 09/09/25 12:20 Date Received: 09/12/25 07:45

Client: Vertex

Lab Sample ID: 885-33153-4

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			34794	JP	EET ALB	09/16/25 17:09
Total/NA	Analysis	8021B		1	34938	JP	EET ALB	09/18/25 22:18
Total/NA	Prep	SHAKE			34935	BZR	EET ALB	09/18/25 10:29
Total/NA	Analysis	8015M/D		1	34917	BZR	EET ALB	09/19/25 01:19
Total/NA	Prep	300_Prep			34813	RC	EET ALB	09/17/25 09:10
Total/NA	Analysis	300.0		10	34808	RC	EET ALB	09/17/25 20:48

Client Sample ID: BS25-05 at 2ft

Date Collected: 09/09/25 12:25

Date Received: 09/12/25 07:45

Lab Sample ID: 885-33153-5

Matrix: Solid

Batch Batch Dilution Prepared Batch Prep Type Туре Method Run Factor **Number Analyst** Lab or Analyzed Total/NA Prep 5030C 34794 JP **EET ALB** 09/16/25 17:09 Total/NA 8015M/D 09/18/25 22:42 34937 JP **EET ALB** Analysis 1 Total/NA 5030C JΡ **EET ALB** 09/16/25 17:09 Prep 34794 Total/NA Analysis 8021B 34938 JP **EET ALB** 09/18/25 22:42 1 Total/NA **EET ALB** 09/18/25 10:29 Prep SHAKE 34935 BZR Total/NA Analysis 8015M/D 1 34917 BZR **EET ALB** 09/19/25 01:43 Total/NA 300 Prep 34813 RC **EET ALB** 09/17/25 09:10 Prep 09/17/25 20:59 Total/NA Analysis 300.0 10 34808 RC **EET ALB**

Client Sample ID: BS25-06 at 2ft

Date Collected: 09/09/25 12:30

Date Received: 09/12/25 07:45

Lab Sample ID: 885-33153-6

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			34801	JP	EET ALB	09/16/25 18:08
Total/NA	Analysis	8015M/D		1	35000	KLS	EET ALB	09/19/25 02:15
Total/NA	Prep	5030C			34801	JP	EET ALB	09/16/25 18:08
Total/NA	Analysis	8021B		1	34999	KLS	EET ALB	09/19/25 02:15
Total/NA	Prep	5030C			34801	JP	EET ALB	09/16/25 18:08
Total/NA	Analysis	8021B		1	35162	AT	EET ALB	09/22/25 19:36
Total/NA	Prep	SHAKE			34935	BZR	EET ALB	09/18/25 10:29
Total/NA	Analysis	8015M/D		1	34917	BZR	EET ALB	09/19/25 02:07
Total/NA	Prep	300_Prep			34890	RC	EET ALB	09/17/25 16:24
Total/NA	Analysis	300.0		10	34808	RC	EET ALB	09/17/25 21:30

Client Sample ID: WS25-01 at 0-2ft

Date Collected: 09/09/25 12:35

Date Received: 09/12/25 07:45

Lab Sample ID: 885-33153-7

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			34801	JP	EET ALB	09/16/25 18:08
Total/NA	Analysis	8015M/D		1	35000	KLS	EET ALB	09/19/25 03:26

Project/Site: Mesa Verde 7 Federal 2

Client: Vertex

Client Sample ID: WS25-01 at 0-2ft

Date Collected: 09/09/25 12:35

Date Received: 09/12/25 07:45

Lab Sample ID: 885-33153-7

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			34801	JP	EET ALB	09/16/25 18:08
Total/NA	Analysis	8021B		1	34999	KLS	EET ALB	09/19/25 03:26
Total/NA	Prep	SHAKE			34935	BZR	EET ALB	09/18/25 10:29
Total/NA	Analysis	8015M/D		1	34917	BZR	EET ALB	09/19/25 02:54
Total/NA	Prep	300_Prep			34890	RC	EET ALB	09/17/25 16:24
Total/NA	Analysis	300.0		10	34808	RC	EET ALB	09/17/25 21:40

Client Sample ID: WS25-02 at 0-2ft

Date Collected: 09/09/25 12:40

Date Received: 09/12/25 07:45

Lab Sample ID: 885-33153-8

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			34801	JP	EET ALB	09/16/25 18:08
Total/NA	Analysis	8015M/D		1	35000	KLS	EET ALB	09/19/25 04:37
Total/NA	Prep	5030C			34801	JP	EET ALB	09/16/25 18:08
Total/NA	Analysis	8021B		1	34999	KLS	EET ALB	09/19/25 04:37
Total/NA	Prep	SHAKE			34935	BZR	EET ALB	09/18/25 10:29
Total/NA	Analysis	8015M/D		1	34917	BZR	EET ALB	09/19/25 03:18
Total/NA	Prep	300_Prep			34890	RC	EET ALB	09/17/25 16:24
Total/NA	Analysis	300.0		10	34808	RC	EET ALB	09/17/25 22:52

Client Sample ID: WS25-03 at 0-2ft

Date Collected: 09/09/25 12:45

Date Received: 09/12/25 07:45

Lab Sample ID: 885-33153-9

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			34801	JP	EET ALB	09/16/25 18:08
Total/NA	Analysis	8015M/D		1	35000	KLS	EET ALB	09/19/25 05:01
Total/NA	Prep	5030C			34801	JP	EET ALB	09/16/25 18:08
Total/NA	Analysis	8021B		1	34999	KLS	EET ALB	09/19/25 05:01
Total/NA	Prep	SHAKE			34935	BZR	EET ALB	09/18/25 10:29
Total/NA	Analysis	8015M/D		1	34917	BZR	EET ALB	09/19/25 03:42
Total/NA	Prep	300_Prep			34890	RC	EET ALB	09/17/25 16:24
Total/NA	Analysis	300.0		10	34808	RC	EET ALB	09/17/25 23:03

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Vertex Job ID: 885-33153-1

Project/Site: Mesa Verde 7 Federal 2

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

uthority	Progr	ram	Identification Number	Expiration Date
ew Mexico	State		NM9425, NM0901	02-27-26
The following analytes	are included in this report, b	ut the laboratory is not certif	ied by the governing authority. This lis	st may include analytes
for which the agency de	oes not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte	
300.0	300_Prep	Solid	Chloride	
8015M/D	5030C	Solid	Gasoline Range Organics	(GRO)-C6-C10
8015M/D	SHAKE	Solid	Diesel Range Organics [C	10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics	[C28-C40]
8021B	5030C	Solid	Benzene	
8021B	5030C	Solid	Ethylbenzene	
8021B	5030C	Solid	Toluene	
8021B	5030C	Solid	Xylenes, Total	
regon	NELA	۸P	NM100001	02-26-26

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	Client:			Istody Record Devon Energy, Jim Raley)	Turn-Around						Н	IA l	LL	EI	V.	IR	ON	IME	NT	AL
		Address		3101 Boyd Dr	Project Nam	X Stan	dard 4 5 Min	Vir	1		A						AB	TW.		Yer
			Carlsbac	d, New Mexico 88220	Mesa	Verde 7 Fede	eral 2					ins l	NE -	- Alb	ouqu	erqu	e, N			
	Phone :			575.725.5001	-	Work Order (1 ager:	007044201)			el. 50	05-3	45-3	975		ax	505-		885-3315	3 COC	
	QA/QC □ Stan	Package: dard		□ Level 4 (Full Validation)	Sally Cartta SCarttar@ve	r ertexresource.	com	s (8021)	/ DRO / MRO)	PCB's		8270SIMS		PO ₄ , SO ₄			Total Coliform (Present/Absent)			
- 1	Accredi		☐ Az Co	ompliance r	Sampler: On Ice:	Sharon	Minnix □ No	/ TMB	30 / DR		504.1)	ō	S	3, NO ₂ ,		OA)	(Preser			
		(Type)_			# of Coolers Cooler Temp		17-02-B	MTBE	TPH:8015D(GRO	Pesticides/8082	EDB (Method	PAHs by 8310	8 Metals	CDF, Br, NO ₃ ,	/OA)	8270 (Semi-VOA)	oliform			
- 1	Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.		TPH:80	8081 P	EDB (A	PAHs I	RCRA		8260 (VOA)	8270 (8	Total C			
Page	9.9.25	12:05	Soil	BS25-01 at 2.5ft	1, 4oz jar	ICE	1	х	Х					Х						
27	9.9.25	12:10	Soil	BS25-02 at 2ft	1, 4oz jar	ICE	2	X	х					X						
of 28	9.9.25	12:15	Soil	BS25-03 at 2ft	1, 4oz jar	ICE	3	х	х					Х						
٦	9.89.25	12:20	Soil	BS25-04 at 2ft	1, 4oz jar	ICE	4	X	Х					X						
	9.9.25	12:25	Soil	BS25-05 at 2ft	1, 4oz jar	ICE	5	Х	Х					Х						
	9.9.25	12:30	Soil	BS25-06 at 2ft	1, 4oz jar	ICE	6	х	Х					X						
	9.9.25	12:35	Soil	WS25-01 at 2ft	1, 4oz jar	ICE	1	X	х					Х					\perp	
	9.9.25	12:40	Soil	WS25-02 at 2ft	1, 4oz jar	ICE	g	X	Х					X					\perp	
	9.9.25	12:45	Soil	WS25-03 at 2ft	1, 4oz jar	ICE	٩	X	X					Х						
9/25	Date: Date:	Time: 400 Time: 1900	Relinquish	ned by:	Received by:	Via: Via: Via:	Date Time	Bill (Sc Per	artta miar	evor r@v	Ene ertex ertex	ergy kresk kresk	ATT ource	N: J e.cor	im R m), n, ar	aley	CC:	Sally C n Minni port.	Carttar	Direct







Login Sample Receipt Checklist

Client: Vertex Job Number: 885-33153-1

Login Number: 33153 List Source: Eurofins Albuquerque

List Number: 1

Creator: McQuiston, Steven

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Sally Carttar Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 9/23/2025 1:52:31 PM Revision 1

JOB DESCRIPTION

Mesa Verde 7 Federal 2

JOB NUMBER

885-33151-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated 9/23/2025 1:52:31 PM Revision 1

Authorized for release by Cheyenne Cason, Project Manager cheyenne.cason@et.eurofinsus.com Designee for Andy Freeman, Business Unit Manager andy.freeman@et.eurofinsus.com (505)345-3975 ,

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Client: Vertex Laboratory Job ID: 885-33151-1

Project/Site: Mesa Verde 7 Federal 2

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Definitions/Glossary

Client: Vertex Job ID: 885-33151-1

Project/Site: Mesa Verde 7 Federal 2

Qualifiers

GC Semi VOA

Qualifier **Qualifier Description**

Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a

dilution may be flagged with a D.

S1-Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) Limit of Detection (DoD/DOE) LOD LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MI Minimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQI

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive 0C**Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) **TEF TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Vertex Job ID: 885-33151-1

Project: Mesa Verde 7 Federal 2

Job ID: 885-33151-1 **Eurofins Albuquerque**

> Job Narrative 885-33151-1

REVISION

The report being provided is a revision of the original report sent on 9/22/2025. The report (revision 1) is being revised due to change all of the samples to state 0 to 2ft instead of just 2ft since it is a wall sample..

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when sitespecific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
 - For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 9/12/2025 7:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.0°C.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

Method 8015D_DRO: The following samples were diluted due to the nature of the sample matrix: WS25-05 at 0 to 2ft (885-33151-2) and WS25-06 at 0 to 2ft (885-33151-3). Elevated reporting limits (RLs) are provided.

Method 8015D DRO: The following samples required a dilution due to the nature of the sample matrix: WS25-05 at 0 to 2ft (885-33151-2) and WS25-06 at 0 to 2ft (885-33151-3). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015D_DRO: The following sample required a dilution due to the nature of the sample matrix: WS25-04 at 0 to 2ft (885-33151-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Job ID: 885-33151-1

Project/Site: Mesa Verde 7 Federal 2

Client Sample ID: WS25-04 at 0 to 2ft

Lab Sample ID: 885-33151-1 Date Collected: 09/09/25 13:00 **Matrix: Solid**

Date Received: 09/12/25 07:45

Client: Vertex

Method: SW846 8015M/D -	Gasoline Range Organic	s (GRO) (GC)					
Analyte Gasoline Range Organics (GRO)-C6-C10	Result Qualifier 7.3	4.8	Mg/Kg		repared 6/25 17:09	Analyzed 09/18/25 19:56	Dil Fac
Surrogate	%Recovery Qualifier	Limits		P	repared	Analyzed	Dil Fac

Surrogate 4-Bromofluorobenzene (Surr)	%Recovery Quality	fier <u>Limits</u> 15 - 150			Prepared 09/16/25 17:09	Analyzed 09/18/25 19:56	Dil Fac
Xylenes, Total	ND	0.096	mg/Kg		09/16/25 17:09	09/18/25 19:56	1
Toluene	ND	0.048	mg/Kg		09/16/25 17:09	09/18/25 19:56	1
Ethylbenzene	ND	0.048	mg/Kg		09/16/25 17:09	09/18/25 19:56	1
Benzene	ND	0.024	mg/Kg		09/16/25 17:09	09/18/25 19:56	1
Method: SW846 8021B - Vo Analyte	latile Organic Comp Result Qualit		Unit	D	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr) Method: SW846 8021B - Vo	101 Matile Organic Comr	15 - 150 Dounds (GC)			03/10/23 11:03	09/18/25 19:56	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2900		99	mg/Kg		09/18/25 10:29	09/18/25 22:33	10
Motor Oil Range Organics [C28-C40]	1500		490	mg/Kg		09/18/25 10:29	09/18/25 22:33	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			09/18/25 10:29	09/18/25 22:33	10

Method: EPA 300.0 - Anions, id	on Chromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100	50	mg/Kg		09/17/25 09:10	09/17/25 19:25	10

Client Sample Results

Client: Vertex Job ID: 885-33151-1

Project/Site: Mesa Verde 7 Federal 2

Client Sample ID: WS25-05 at 0 to 2ft

ND

%Recovery Qualifier

106

2000

Lab Sample ID: 885-33151-2 Date Collected: 09/09/25 12:50 Matrix: Solid

Date Received: 09/12/25 07:45

Xylenes, Total

4-Bromofluorobenzene (Surr)

Surrogate

Chloride

Method: SW846 8015M/D -	Gasoline Rang	ge Organic	s (GRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	17		4.8	mg/Kg		09/16/25 17:09	09/18/25 20:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141		15 - 150			09/16/25 17:09	09/18/25 20:20	1
- Method: SW846 8021B - Vo	latile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/16/25 17:09	09/18/25 20:20	1
Ethylbenzene	ND		0.048	mg/Kg		09/16/25 17:09	09/18/25 20:20	1
Toluene	ND		0.048	mg/Kg		09/16/25 17:09	09/18/25 20:20	1

0.096

Limits

15 - 150

mg/Kg

mg/Kg

09/16/25 17:09 09/18/25 20:20

09/16/25 17:09 09/18/25 20:20

09/17/25 09:10 09/17/25 19:36

Analyzed

Prepared

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	7800	-	93	mg/Kg		09/18/25 11:58	09/19/25 00:26	10
Motor Oil Range Organics [C28-C40]	5000		460	mg/Kg		09/18/25 11:58	09/19/25 00:26	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			09/18/25 11:58	09/19/25 00:26	10
Method: EPA 300.0 - Anions, I	on Chroma	tography						
Mothod: El A 000.0 - Allions, i		tograpily						Dil Fa

50

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Dil Fac

Client Sample Results

Client: Vertex Job ID: 885-33151-1

Project/Site: Mesa Verde 7 Federal 2

Client Sample ID: WS25-06 at 0 to 2ft

Lab Sample ID: 885-33151-3 Date Collected: 09/09/25 12:55 **Matrix: Solid**

Date Received: 09/12/25 07:45

Toluene

Xylenes, Total

Method: SW846 8015M/D -	Gasoline Rang	ge Organic	s (GRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		09/16/25 17:09	09/19/25 14:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			09/16/25 17:09	09/19/25 14:14	1
 Method: SW846 8021B - Vo Analyte	•	Compoun Qualifier	ds (GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		09/16/25 17:09	09/19/25 14:14	1
Fthylbenzene	ND		0.047	ma/Ka		09/16/25 17:09	09/19/25 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 150	09/16/25 17:09	09/19/25 14:14	1

0.047

0.093

mg/Kg

mg/Kg

09/16/25 17:09 09/19/25 14:14

09/16/25 17:09 09/19/25 14:14

ND

ND

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	190		93	mg/Kg		09/18/25 11:58	09/19/25 01:03	10
Motor Oil Range Organics [C28-C40]	580		470	mg/Kg		09/18/25 11:58	09/19/25 01:03	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)		S1- D	62 - 134			09/18/25 11:58	09/19/25 01:03	10

metriod. Et A 300.0 - Armons, for Ornomatography							
Analyte	Result Quali	lifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	200	50	mg/Kg		09/17/25 09:10	09/17/25 20:07	10

Client: Vertex Job ID: 885-33151-1

Project/Site: Mesa Verde 7 Federal 2

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-34794/1-A

Matrix: Solid

Gasoline Range Organics

Analysis Batch: 34937

MB MB

Result Qualifier ND

RL 5.0 Unit mg/Kg

Prepared 09/16/25 17:09 09/18/25 12:53

Analyzed

Prep Type: Total/NA

Prep Batch: 34794

Client Sample ID: Method Blank

Dil Fac

(GRO)-C6-C10

Analyte

Surrogate 4-Bromofluorobenzene (Surr)

MB MB %Recovery Qualifier 94

Limits 15 - 150

Prepared 09/16/25 17:09 09/18/25 12:53

89

Dil Fac Analyzed

Prep Type: Total/NA

Prep Batch: 34794

Lab Sample ID: LCS 885-34794/2-A

Matrix: Solid

Analysis Batch: 34937

Gasoline Range Organics

Analyte

Spike Added 25.0

Result Qualifier 22.4

LCS LCS

Unit mg/Kg D %Rec

Client Sample ID: Lab Control Sample

%Rec Limits 70 - 130

(GRO)-C6-C10

LCS LCS

Surrogate 4-Bromofluorobenzene (Surr) %Recovery Qualifier 193

MR MR

ND

ND

Limits 15 - 150

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-34794/1-A

Matrix: Solid

Toluene

Xvlenes. Total

Analysis Batch: 34938

LCS LCS

1.04

1.04

2.09

1.04

1.03

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Client Sample ID: Method Blank Prep Type: Total/NA

Analyzed

09/18/25 12:53 09/18/25 12:53

09/18/25 12:53

09/16/25 17:09 09/18/25 12:53

Prep Batch: 34794

Analyte	Result Qualifier	RL
Benzene	ND ND	0.025
Ethylbenzene	ND	0.050

Surrogate

4-Bromofluorobenzene (Surr)

%Recovery

MB MB Qualifier 102

I imits 15 - 150

Spike

Added

1.00

1.00

2.00

1.00

1.00

15 - 150

0.050

0.10

Prepared

Prepared

09/16/25 17:09

09/16/25 17:09

09/16/25 17:09

Analyzed 09/16/25 17:09 09/18/25 12:53

Dil Fac

Dil Fac

Lab Sample ID: LCS 885-34794/3-A

Matrix: Solid

Analyte

Benzene

o-Xylene

Toluene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

Analysis Batch: 34938

Client Sample ID: Lab Control Sample

104

103

Prep Type: Total/NA Prep Batch: 34794

%Rec Limits %Rec 104 70 - 130 104 70 - 130 104 70 - 130

70 - 130

70 - 130

LCS LCS

%Recovery Qualifier 105

Limits

Client: Vertex Job ID: 885-33151-1

Project/Site: Mesa Verde 7 Federal 2

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-34935/1-A

Matrix: Solid

Analysis Batch: 34917

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34935

MB MB Result Qualifier RL Unit Analyzed Dil Fac Analyte **Prepared** 09/18/25 10:28 09/18/25 17:47 Diesel Range Organics [C10-C28] ND 10 mg/Kg Motor Oil Range Organics [C28-C40] ND 50 mg/Kg 09/18/25 10:28 09/18/25 17:47

MB MB

Surrogate %Recovery Qualifier I imite Prepared Analyzed Dil Fac Di-n-octyl phthalate (Surr) 110 62 - 134 09/18/25 10:28 09/18/25 17:47

LCS LCS

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34935

%Rec

Spike Added Result Qualifier Limits Unit %Rec Analyte D 50.0 51 - 148 **Diesel Range Organics** 47.8 mg/Kg 96

[C10-C28]

Matrix: Solid

Analysis Batch: 34917

LCS LCS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 93 62 - 134

Lab Sample ID: MB 885-34960/1-A

Lab Sample ID: LCS 885-34935/2-A

Matrix: Solid

Analysis Batch: 34915

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34960

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Diesel Range Organics [C10-C28] $\overline{\mathsf{ND}}$ 10 mg/Kg 09/18/25 11:58 09/18/25 16:59 50 09/18/25 11:58 09/18/25 16:59 Motor Oil Range Organics [C28-C40] ND mg/Kg

MB MB

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac Di-n-octyl phthalate (Surr) 116 62 - 134 09/18/25 11:58 09/18/25 16:59

Lab Sample ID: LCS 885-34960/2-A

Matrix: Solid

Analysis Batch: 34915

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 34960

%Rec

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Diesel Range Organics 50.0 58.8 118 51 - 148 mg/Kg

[C10-C28]

LCS LCS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 62 - 134

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-34813/1-A

Matrix: Solid

Analysis Batch: 34808

Client Sample ID: Method Blank **Prep Type: Total/NA** Prep Batch: 34813

MB MB

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac 09/17/25 09:10 09/17/25 10:14 Chloride ND 5.0 mg/Kg

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QC Sample Results

Spike

Added

50.5

Client: Vertex Job ID: 885-33151-1

LCS LCS

49.2

Project/Site: Mesa Verde 7 Federal 2

Matrix: Solid

Analyte

Chloride

Analysis Batch: 34808

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-34813/2-A

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 34813

Limits Result Qualifier Unit D %Rec 90 - 110 mg/Kg 97

Client: Vertex Job ID: 885-33151-1

Project/Site: Mesa Verde 7 Federal 2

GC VOA

Prep Batch: 34794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33151-1	WS25-04 at 0 to 2ft	Total/NA	Solid	5030C	
885-33151-2	WS25-05 at 0 to 2ft	Total/NA	Solid	5030C	
885-33151-3	WS25-06 at 0 to 2ft	Total/NA	Solid	5030C	
MB 885-34794/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-34794/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-34794/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 34937

Lab Sample ID 885-33151-1	Client Sample ID WS25-04 at 0 to 2ft	Prep Type Total/NA	Matrix Solid	Method 8015M/D	Prep Batch 34794
885-33151-2	WS25-05 at 0 to 2ft	Total/NA	Solid	8015M/D	34794
MB 885-34794/1-A	Method Blank	Total/NA	Solid	8015M/D	34794
LCS 885-34794/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	34794

Analysis Batch: 34938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33151-1	WS25-04 at 0 to 2ft	Total/NA	Solid	8021B	34794
885-33151-2	WS25-05 at 0 to 2ft	Total/NA	Solid	8021B	34794
MB 885-34794/1-A	Method Blank	Total/NA	Solid	8021B	34794
LCS 885-34794/3-A	Lab Control Sample	Total/NA	Solid	8021B	34794

Analysis Batch: 35063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33151-3	WS25-06 at 0 to 2ft	Total/NA	Solid	8015M/D	34794

Analysis Batch: 35064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33151-3	WS25-06 at 0 to 2ft	Total/NA	Solid	8021B	34794

GC Semi VOA

Analysis Batch: 34915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33151-2	WS25-05 at 0 to 2ft	Total/NA	Solid	8015M/D	34960
885-33151-3	WS25-06 at 0 to 2ft	Total/NA	Solid	8015M/D	34960
MB 885-34960/1-A	Method Blank	Total/NA	Solid	8015M/D	34960
LCS 885-34960/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	34960

Analysis Batch: 34917

Lab Sample ID 885-33151-1	Client Sample ID WS25-04 at 0 to 2ft	Prep Type Total/NA	Matrix Solid	Method 8015M/D	Prep Batch 34935
MB 885-34935/1-A	Method Blank	Total/NA	Solid	8015M/D	34935
LCS 885-34935/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	34935

Prep Batch: 34935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33151-1	WS25-04 at 0 to 2ft	Total/NA	Solid	SHAKE	
MB 885-34935/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-34935/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

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Released to Imaging: 11/21/2025 1:59:09 PM

Client: Vertex Job ID: 885-33151-1

Project/Site: Mesa Verde 7 Federal 2

GC Semi VOA

Prep Batch: 34960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33151-2	WS25-05 at 0 to 2ft	Total/NA	Solid	SHAKE	
885-33151-3	WS25-06 at 0 to 2ft	Total/NA	Solid	SHAKE	
MB 885-34960/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-34960/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

HPLC/IC

Analysis Batch: 34808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33151-1	WS25-04 at 0 to 2ft	Total/NA	Solid	300.0	34813
885-33151-2	WS25-05 at 0 to 2ft	Total/NA	Solid	300.0	34813
885-33151-3	WS25-06 at 0 to 2ft	Total/NA	Solid	300.0	34813
MB 885-34813/1-A	Method Blank	Total/NA	Solid	300.0	34813
LCS 885-34813/2-A	Lab Control Sample	Total/NA	Solid	300.0	34813

Prep Batch: 34813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33151-1	WS25-04 at 0 to 2ft	Total/NA	Solid	300_Prep	
885-33151-2	WS25-05 at 0 to 2ft	Total/NA	Solid	300_Prep	
885-33151-3	WS25-06 at 0 to 2ft	Total/NA	Solid	300_Prep	
MB 885-34813/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-34813/2-A	Lab Control Sample	Total/NA	Solid	300 Prep	

Matrix: Solid

Lab Sample ID: 885-33151-1

Client Sample ID: WS25-04 at 0 to 2ft

Date Collected: 09/09/25 13:00

Date Received: 09/12/25 07:45

Client: Vertex

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			34794	JP	EET ALB	09/16/25 17:09
Total/NA	Analysis	8015M/D		1	34937	JP	EET ALB	09/18/25 19:56
Total/NA	Prep	5030C			34794	JP	EET ALB	09/16/25 17:09
Total/NA	Analysis	8021B		1	34938	JP	EET ALB	09/18/25 19:56
Total/NA	Prep	SHAKE			34935	BZR	EET ALB	09/18/25 10:29
Total/NA	Analysis	8015M/D		10	34917	BZR	EET ALB	09/18/25 22:33
Total/NA	Prep	300_Prep			34813	RC	EET ALB	09/17/25 09:10
Total/NA	Analysis	300.0		10	34808	RC	EET ALB	09/17/25 19:25

Client Sample ID: WS25-05 at 0 to 2ft

Date Received: 09/12/25 07:45

Date Collected: 09/09/25 12:50

Lab Sample ID: 885-33151-2 **Matrix: Solid**

Batch Dilution Batch Batch **Prepared** Method or Analyzed **Prep Type** Run **Factor Number Analyst** Type Lab 09/16/25 17:09 Total/NA 5030C 34794 **EET ALB** Prep Total/NA 09/18/25 20:20 Analysis 8015M/D 34937 JP **EET ALB** 1 Total/NA 5030C 34794 JP **EET ALB** 09/16/25 17:09 Prep Total/NA Analysis 8021B 1 34938 JP **EET ALB** 09/18/25 20:20 Total/NA Prep SHAKE 34960 BZR **EET ALB** 09/18/25 11:58 **EET ALB** Total/NA 8015M/D 09/19/25 00:26 Analysis 10 34915 EM Total/NA 300 Prep 34813 RC **EET ALB** 09/17/25 09:10 Prep Total/NA 300.0 10 34808 RC **EET ALB** 09/17/25 19:36 Analysis

Client Sample ID: WS25-06 at 0 to 2ft

Date Collected: 09/09/25 12:55

Date Received: 09/12/25 07:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			34794	JP	EET ALB	09/16/25 17:09
Total/NA	Analysis	8015M/D		1	35063	KLS	EET ALB	09/19/25 14:14
Total/NA	Prep	5030C			34794	JP	EET ALB	09/16/25 17:09
Total/NA	Analysis	8021B		1	35064	KLS	EET ALB	09/19/25 14:14
Total/NA	Prep	SHAKE			34960	BZR	EET ALB	09/18/25 11:58
Total/NA	Analysis	8015M/D		10	34915	EM	EET ALB	09/19/25 01:03
Total/NA	Prep	300_Prep			34813	RC	EET ALB	09/17/25 09:10
Total/NA	Analysis	300.0		10	34808	RC	EET ALB	09/17/25 20:07

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Eurofins Albuquerque

Lab Sample ID: 885-33151-3 **Matrix: Solid**

Accreditation/Certification Summary

Client: Vertex Job ID: 885-33151-1

Project/Site: Mesa Verde 7 Federal 2

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Progr	am	Identification Number	Expiration Date
lew Mexico	State		NM9425, NM0901	02-27-26
9	s are included in this repo	•	not certified by the governing authori	ty. This list may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
300.0	300_Prep	Solid	Chloride	
8015M/D	5030C	Solid	Gasoline Range Organics	s (GRO)-C6-C10
8015M/D	SHAKE	Solid	Diesel Range Organics [0	C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organic	s [C28-C40]
8021B	5030C	Solid	Benzene	
8021B	5030C	Solid	Ethylbenzene	
8021B	5030C	Solid	Toluene	
8021B	5030C	Solid	Xylenes, Total	
Dregon	NELA	D	NM100001	02-26-26

Eurofins Albuquerque

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9/23/2025 (Rev. 1

10/28/2025 6:58:12 AM









Login Sample Receipt Checklist

Client: Vertex Job Number: 885-33151-1

Login Number: 33151 List Source: Eurofins Albuquerque

List Number: 1

Creator: McQuiston, Steven

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Sally Carttar Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 9/24/2025 7:27:47 AM

JOB DESCRIPTION

Mesa Verde 7 Federal 2

JOB NUMBER

885-33156-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated 9/24/2025 7:27:47 AM

Authorized for release by Andy Freeman, Business Unit Manager andy.freeman@et.eurofinsus.com (505)345-3975 ľ

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Client: Vertex Laboratory Job ID: 885-33156-1

Project/Site: Mesa Verde 7 Federal 2

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Definitions/Glossary

Client: Vertex Job ID: 885-33156-1

Project/Site: Mesa Verde 7 Federal 2

Glossary

MDA

MDC

Abbreviation	These commonly used abbreviations may or may not be present in this report.
*	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"

MDL Method Detection Limit MLMinimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

Minimum Detectable Activity (Radiochemistry)

Minimum Detectable Concentration (Radiochemistry)

NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

PRES Presumptive Quality Control QC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Vertex Job ID: 885-33156-1

Project: Mesa Verde 7 Federal 2

Job ID: 885-33156-1 **Eurofins Albuquerque**

> Job Narrative 885-33156-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when sitespecific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 9/12/2025 7:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.0°C.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Vertex Job ID: 885-33156-1

Project/Site: Mesa Verde 7 Federal 2

Client Sample ID: BS25-07 at 2ft

Date Collected: 09/10/25 11:00 Date Received: 09/12/25 07:45

Surrogate

4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-33156-1

Analyzed

09/19/25 05:25

Prepared

09/16/25 18:08

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.6	mg/Kg		09/16/25 18:08	09/19/25 05:25	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
- · · • • • · · · · · · · · · · · · · ·								
4-Bromofluorobenzene (Surr) Method: SW846 8021B - Volatil	99 le Organic Comp	ounds (GC)	15 - 150			09/16/25 18:08	09/19/25 05:25	1
4-Bromofluorobenzene (Surr)	le Organic Comp	ounds (GC) Qualifier	15 ₋ 150	Unit	D	09/16/25 18:08 Prepared	09/19/25 05:25 Analyzed	Dil Fac
4-Bromofluorobenzene (Surr) Method: SW846 8021B - Volatil	le Organic Comp	. ,		Unit mg/Kg	<u>D</u>			Dil Fac
4-Bromofluorobenzene (Surr) Method: SW846 8021B - Volatil Analyte	le Organic Comp	. ,	RL		<u>D</u>	Prepared	Analyzed	1 Dil Fac
4-Bromofluorobenzene (Surr) Method: SW846 8021B - Volatil Analyte Benzene	le Organic Comp Result ND	. ,	RL 0.023	mg/Kg	<u>D</u>	Prepared 09/16/25 18:08	Analyzed 09/19/25 05:25	1 Dil Fac 1 1 1 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		09/18/25 10:29	09/19/25 04:06	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/18/25 10:29	09/19/25 04:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			09/18/25 10:29	09/19/25 04:06	

Limits

15 - 150

%Recovery Qualifier

101

method. El A 000.0 - Allions, lon ol	nomatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	50	mg/Kg		09/17/25 16:24	09/17/25 23:13	10

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Dil Fac

Client Sample Results

Client: Vertex Job ID: 885-33156-1

Project/Site: Mesa Verde 7 Federal 2

Client Sample ID: BS25-08 at 2ft

Lab Sample ID: 885-33156-2

Matrix: Solid

Date Collected: 09/10/25 11:10 Date Received: 09/12/25 07:45

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.7	mg/Kg		09/16/25 18:08	09/19/25 05:49	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 - 150			09/16/25 18:08	09/19/25 05:49	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	-	0.024	mg/Kg		09/16/25 18:08	09/19/25 05:49	1
Ethylbenzene	ND		0.047	mg/Kg		09/16/25 18:08	09/19/25 05:49	1
Toluene	ND		0.047	mg/Kg		09/16/25 18:08	09/19/25 05:49	1
Xylenes, Total	ND		0.094	mg/Kg		09/16/25 18:08	09/19/25 05:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			09/16/25 18:08	09/19/25 05:49	1
Method: SW846 8015M/D - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		09/18/25 10:29	09/19/25 04:30	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/18/25 10:29	09/19/25 04:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	100		62 - 134			09/18/25 10:29	09/19/25 04:30	1

50

1200

mg/Kg

09/17/25 16:24

09/17/25 23:23

Client: Vertex Job ID: 885-33156-1

Project/Site: Mesa Verde 7 Federal 2

Client Sample ID: WS25-07 at 0-2.5ft

Date Collected: 09/10/25 11:30

Date Received: 09/12/25 07:45

4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-33156-3

09/16/25 18:08 09/19/25 06:12

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.6	mg/Kg		09/16/25 18:08	09/19/25 06:12	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96	·	15 - 150			09/16/25 18:08	09/19/25 06:12	1
Method: SW846 8021B - Vola	•	. ,		Unit		Dogwood	Abd	Dil F
	•	ounds (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte	•	. ,		Unit mg/Kg	<u>D</u>	Prepared 09/16/25 18:08	Analyzed 09/19/25 06:12	Dil Fac
Analyte Benzene	Result	. ,	RL		<u>D</u>			Dil Fac
Analyte Benzene Ethylbenzene	Result ND	. ,	RL 0.023	mg/Kg	<u>D</u>	09/16/25 18:08	09/19/25 06:12	Dil Fac 1 1 1
Method: SW846 8021B - Vola Analyte Benzene Ethylbenzene Toluene Xylenes, Total	Result ND ND	. ,	RL 0.023 0.046	mg/Kg mg/Kg	<u>D</u>	09/16/25 18:08 09/16/25 18:08	09/19/25 06:12 09/19/25 06:12	Dil Fac 1 1 1 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		09/18/25 10:29	09/19/25 04:53	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/18/25 10:29	09/19/25 04:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			09/18/25 10:29	09/19/25 04:53	1

15 - 150

98

Welliou. EPA 300.0 - Allions, lon C	ilioiliatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1900	50	mg/Kg		09/17/25 16:24	09/17/25 23:34	10

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Client Sample Results

Client: Vertex Job ID: 885-33156-1

Project/Site: Mesa Verde 7 Federal 2

Client Sample ID: WS25-08 at 0-2ft

Date Collected: 09/10/25 11:45 Date Received: 09/12/25 07:45

4-Bromofluorobenzene (Surr)

Released to Imaging: 11/21/2025 1:59:09 PM

Lab Sample ID: 885-33156-4

09/19/25 06:59

09/16/25 18:08

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.7	mg/Kg		09/16/25 18:08	09/19/25 06:59	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			09/16/25 18:08	09/19/25 06:59	1
Method: SW846 8021B - Volat	•	. ,			_			D:: 5
	•	ounds (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	•	. ,		Unit mg/Kg	<u>D</u>	Prepared 09/16/25 18:08	Analyzed 09/19/25 06:59	Dil Fac
Analyte Benzene	Result	. ,	RL		<u>D</u>	·		Dil Fac
Analyte Benzene Ethylbenzene	Result ND	. ,	RL 0.024	mg/Kg	<u>D</u>	09/16/25 18:08	09/19/25 06:59	Dil Fac 1 1 1
Method: SW846 8021B - Volat Analyte Benzene Ethylbenzene Toluene Xylenes, Total	Result ND ND	. ,	RL 0.024 0.047	mg/Kg	<u>D</u>	09/16/25 18:08 09/16/25 18:08	09/19/25 06:59 09/19/25 06:59	Dil Fac 1 1 1 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		09/18/25 15:11	09/19/25 11:49	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/18/25 15:11	09/19/25 11:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	84		62 - 134			09/18/25 15:11	09/19/25 11:49	1

15 - 150

98

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Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	330	49	mg/Kg		09/17/25 16:24	09/17/25 23:44	10

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Prep Batch: 34801

Client: Vertex Job ID: 885-33156-1

Project/Site: Mesa Verde 7 Federal 2

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-34801/1-A Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Solid Analysis Batch: 35000

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics ND 5.0 mg/Kg 09/16/25 18:08 09/19/25 00:40

(GRO)-C6-C10

MB MB %Recovery Limits Dil Fac Qualifier Prepared Analyzed Surrogate 09/16/25 18:08 15 - 150 09/19/25 00:40 4-Bromofluorobenzene (Surr) 97

Lab Sample ID: LCS 885-34801/2-A

Matrix: Solid

Client Sample ID: Lab Control Sample Prep Type: Total/NA **Analysis Batch: 35000** Prep Batch: 34801

Spike LCS LCS Analyte babbA Result Qualifier Limits Unit D %Rec Gasoline Range Organics 25.0 22.7 mg/Kg 91 70 - 130

(GRO)-C6-C10

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 198 15 - 150

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-34801/1-A Client Sample ID: Method Blank **Matrix: Solid**

Analysis Batch: 34999

мв мв Qualifier RL D Dil Fac Analyte Unit Prepared Analyzed Result 0.025 09/16/25 18:08 09/19/25 00:40 Benzene ND mg/Kg Ethylbenzene ND 0.050 09/16/25 18:08 09/19/25 00:40 mg/Kg ND Toluene 0.050 mg/Kg 09/16/25 18:08 09/19/25 00:40 Xylenes, Total ND 0.10 09/16/25 18:08 09/19/25 00:40 mg/Kg

мв мв

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed 4-Bromofluorobenzene (Surr) 100 15 - 150 09/16/25 18:08 09/19/25 00:40

Lab Sample ID: LCS 885-34801/3-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 34999** Prep Batch: 34801 Snika

	Spike	LUS	LUS				70Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	1.00	1.01		mg/Kg		101	70 - 130	
Ethylbenzene	1.00	0.998		mg/Kg		100	70 - 130	
m-Xylene & p-Xylene	2.00	2.00		mg/Kg		100	70 - 130	
o-Xylene	1.00	1.00		mg/Kg		100	70 - 130	
Toluene	1.00	1.00		mg/Kg		100	70 - 130	

LCS LCS

Surrogate %Recovery Qualifier Limits 101 15 _ 150 4-Bromofluorobenzene (Surr)

Prep Type: Total/NA

Prep Batch: 34801

Job ID: 885-33156-1 Client: Vertex

Project/Site: Mesa Verde 7 Federal 2

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-34935/1-A **Matrix: Solid**

Lab Sample ID: LCS 885-34935/2-A

Analysis Batch: 34917

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34935

Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Diesel Range Organics [C10-C28] ND 10 mg/Kg 09/18/25 10:28 09/18/25 17:47 Motor Oil Range Organics [C28-C40] ND 50 mg/Kg 09/18/25 10:28 09/18/25 17:47

MB MB

MB MB

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed Di-n-octyl phthalate (Surr) 110 62 - 134 09/18/25 10:28 09/18/25 17:47

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34935

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 50.0 47.8 51 - 148 Diesel Range Organics mg/Kg

[C10-C28]

Matrix: Solid

Analysis Batch: 34917

LCS LCS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 93 62 - 134

Lab Sample ID: MB 885-34981/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 35013** Prep Batch: 34981

MB MB

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Diesel Range Organics [C10-C28] ND 10 09/18/25 15:11 09/19/25 12:12 mg/Kg Motor Oil Range Organics [C28-C40] ND 50 09/18/25 15:11 09/19/25 12:12 mg/Kg

MB MB

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed Di-n-octyl phthalate (Surr) 84 62 - 134 09/18/25 15:11 09/19/25 12:12

Lab Sample ID: LCS 885-34981/2-A

Matrix: Solid

Analysis Batch: 35013

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 34981

%Rec

LCS LCS Spike Added Analyte Result Qualifier Unit %Rec Limits 50.0 40.7 81 51 - 148 Diesel Range Organics mg/Kg

[C10-C28]

LCS LCS

Limits Surrogate %Recovery Qualifier Di-n-octyl phthalate (Surr) 85 62 - 134

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-34890/1-A

Matrix: Solid

Analysis Batch: 34808

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 34890

MR MR

Analyte Qualifier Unit Result Prepared Analyzed Dil Fac Chloride ND 5.1 09/17/25 16:24 09/17/25 21:09 mg/Kg

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Prep Batch: 34890

QC Sample Results

Client: Vertex Job ID: 885-33156-1

Project/Site: Mesa Verde 7 Federal 2

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-34890/2-A **Client Sample ID: Lab Control Sample Prep Type: Total/NA**

Matrix: Solid

Analysis Batch: 34808

	Spike	LCS	LCS			%Rec
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits
Chloride	50.2	49.2	mg/Kg		98	90 - 110

QC Association Summary

Client: Vertex

Job ID: 885-33156-1 Project/Site: Mesa Verde 7 Federal 2

GC VOA

Prep Batch: 34801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
885-33156-1	BS25-07 at 2ft	Total/NA	Solid	5030C	
885-33156-2	BS25-08 at 2ft	Total/NA	Solid	5030C	
885-33156-3	WS25-07 at 0-2.5ft	Total/NA	Solid	5030C	
885-33156-4	WS25-08 at 0-2ft	Total/NA	Solid	5030C	
MB 885-34801/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-34801/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-34801/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 34999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33156-1	BS25-07 at 2ft	Total/NA	Solid	8021B	34801
885-33156-2	BS25-08 at 2ft	Total/NA	Solid	8021B	34801
885-33156-3	WS25-07 at 0-2.5ft	Total/NA	Solid	8021B	34801
885-33156-4	WS25-08 at 0-2ft	Total/NA	Solid	8021B	34801
MB 885-34801/1-A	Method Blank	Total/NA	Solid	8021B	34801
LCS 885-34801/3-A	Lab Control Sample	Total/NA	Solid	8021B	34801

Analysis Batch: 35000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33156-1	BS25-07 at 2ft	Total/NA	Solid	8015M/D	34801
885-33156-2	BS25-08 at 2ft	Total/NA	Solid	8015M/D	34801
885-33156-3	WS25-07 at 0-2.5ft	Total/NA	Solid	8015M/D	34801
885-33156-4	WS25-08 at 0-2ft	Total/NA	Solid	8015M/D	34801
MB 885-34801/1-A	Method Blank	Total/NA	Solid	8015M/D	34801
LCS 885-34801/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	34801

GC Semi VOA

Analysis Batch: 34917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33156-1	BS25-07 at 2ft	Total/NA	Solid	8015M/D	34935
885-33156-2	BS25-08 at 2ft	Total/NA	Solid	8015M/D	34935
885-33156-3	WS25-07 at 0-2.5ft	Total/NA	Solid	8015M/D	34935
MB 885-34935/1-A	Method Blank	Total/NA	Solid	8015M/D	34935
LCS 885-34935/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	34935

Prep Batch: 34935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33156-1	BS25-07 at 2ft	Total/NA	Solid	SHAKE	
885-33156-2	BS25-08 at 2ft	Total/NA	Solid	SHAKE	
885-33156-3	WS25-07 at 0-2.5ft	Total/NA	Solid	SHAKE	
MB 885-34935/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-34935/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Prep Batch: 34981

Released to Imaging: 11/21/2025 1:59:09 PM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33156-4	WS25-08 at 0-2ft	Total/NA	Solid	SHAKE	
MB 885-34981/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-34981/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

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QC Association Summary

Client: Vertex Job ID: 885-33156-1

Project/Site: Mesa Verde 7 Federal 2

GC Semi VOA

Analysis Batch: 35013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33156-4	WS25-08 at 0-2ft	Total/NA	Solid	8015M/D	34981
MB 885-34981/1-A	Method Blank	Total/NA	Solid	8015M/D	34981
LCS 885-34981/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	34981

HPLC/IC

Analysis Batch: 34808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33156-1	BS25-07 at 2ft	Total/NA	Solid	300.0	34890
885-33156-2	BS25-08 at 2ft	Total/NA	Solid	300.0	34890
885-33156-3	WS25-07 at 0-2.5ft	Total/NA	Solid	300.0	34890
885-33156-4	WS25-08 at 0-2ft	Total/NA	Solid	300.0	34890
MB 885-34890/1-A	Method Blank	Total/NA	Solid	300.0	34890
LCS 885-34890/2-A	Lab Control Sample	Total/NA	Solid	300.0	34890

Prep Batch: 34890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33156-1	BS25-07 at 2ft	Total/NA	Solid	300_Prep	
885-33156-2	BS25-08 at 2ft	Total/NA	Solid	300_Prep	
885-33156-3	WS25-07 at 0-2.5ft	Total/NA	Solid	300_Prep	
885-33156-4	WS25-08 at 0-2ft	Total/NA	Solid	300_Prep	
MB 885-34890/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-34890/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

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Client Sample ID: BS25-07 at 2ft

Date Collected: 09/10/25 11:00 Date Received: 09/12/25 07:45

Client: Vertex

Lab Sample ID: 885-33156-1

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			34801	JP	EET ALB	09/16/25 18:08
Total/NA	Analysis	8015M/D		1	35000	KLS	EET ALB	09/19/25 05:25
Total/NA	Prep	5030C			34801	JP	EET ALB	09/16/25 18:08
Total/NA	Analysis	8021B		1	34999	KLS	EET ALB	09/19/25 05:25
Total/NA	Prep	SHAKE			34935	BZR	EET ALB	09/18/25 10:29
Total/NA	Analysis	8015M/D		1	34917	BZR	EET ALB	09/19/25 04:06
Total/NA	Prep	300_Prep			34890	RC	EET ALB	09/17/25 16:24
Total/NA	Analysis	300.0		10	34808	RC	EET ALB	09/17/25 23:13

Client Sample ID: BS25-08 at 2ft

Date Collected: 09/10/25 11:10

Date Received: 09/12/25 07:45

Lab Sample ID: 885-33156-2

Matrix: Solid

Batch Dilution Batch Batch Prepared **Prep Type** Type Method Run Factor Number Analyst Lab or Analyzed Total/NA 5030C 34801 EET ALB 09/16/25 18:08 Prep Total/NA 8015M/D 09/19/25 05:49 Analysis 1 35000 KLS **EET ALB** Total/NA 5030C 09/16/25 18:08 Prep 34801 JΡ **EET ALB** Total/NA Analysis 8021B 1 34999 KLS **EET ALB** 09/19/25 05:49 Total/NA SHAKE 34935 BZR **EET ALB** 09/18/25 10:29 Prep 09/19/25 04:30 Total/NA Analysis 8015M/D 1 34917 BZR **EET ALB** EET ALB 09/17/25 16:24 Total/NA Prep 300_Prep 34890 RC Total/NA Analysis 300.0 10 34808 RC **EET ALB** 09/17/25 23:23

Client Sample ID: WS25-07 at 0-2.5ft

Date Collected: 09/10/25 11:30

Date Received: 09/12/25 07:45

Lab Sample ID: 885-33156-3

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			34801	JP	EET ALB	09/16/25 18:08
Total/NA	Analysis	8015M/D		1	35000	KLS	EET ALB	09/19/25 06:12
Total/NA	Prep	5030C			34801	JP	EET ALB	09/16/25 18:08
Total/NA	Analysis	8021B		1	34999	KLS	EET ALB	09/19/25 06:12
Total/NA	Prep	SHAKE			34935	BZR	EET ALB	09/18/25 10:29
Total/NA	Analysis	8015M/D		1	34917	BZR	EET ALB	09/19/25 04:53
Total/NA	Prep	300_Prep			34890	RC	EET ALB	09/17/25 16:24
Total/NA	Analysis	300.0		10	34808	RC	EET ALB	09/17/25 23:34

Client Sample ID: WS25-08 at 0-2ft

Date Collected: 09/10/25 11:45

Date Received: 09/12/25 07:45

Lab San	nple	ID:	885-33	3156-4
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Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			34801	JP	EET ALB	09/16/25 18:08
Total/NA	Analysis	8015M/D		1	35000	KLS	EET ALB	09/19/25 06:59

Eurofins Albuquerque

Matrix: Solid

Lab Chronicle

Client: Vertex Job ID: 885-33156-1

Project/Site: Mesa Verde 7 Federal 2

Date Received: 09/12/25 07:45

Client Sample ID: WS25-08 at 0-2ft

Lab Sample ID: 885-33156-4 Date Collected: 09/10/25 11:45

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			34801	JP	EET ALB	09/16/25 18:08
Total/NA	Analysis	8021B		1	34999	KLS	EET ALB	09/19/25 06:59
Total/NA	Prep	SHAKE			34981	BZR	EET ALB	09/18/25 15:11
Total/NA	Analysis	8015M/D		1	35013	EM	EET ALB	09/19/25 11:49
Total/NA	Prep	300_Prep			34890	RC	EET ALB	09/17/25 16:24
Total/NA	Analysis	300.0		10	34808	RC	EET ALB	09/17/25 23:44

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Vertex Job ID: 885-33156-1

Project/Site: Mesa Verde 7 Federal 2

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Prog	ram	Identification Number	Expiration Date		
New Mexico	State		NM9425, NM0901	02-27-26		
0 ,	are included in this report, boes not offer certification.	ut the laboratory is not certif	fied by the governing authority. This lis	st may include analytes		
Analysis Method	Prep Method	Matrix	Analyte			
300.0	300_Prep	Solid	Chloride			
8015M/D	5030C	Solid	Gasoline Range Organics	(GRO)-C6-C10		
8015M/D	SHAKE	Solid	Diesel Range Organics [C	10-C28]		
8015M/D	SHAKE	Solid	Motor Oil Range Organics	[C28-C40]		
8021B	5030C	Solid	Benzene			
8021B	5030C	Solid	Ethylbenzene			
8021B	5030C	Solid	Toluene			
8021B	5030C	Solid	Xylenes, Total			
Oregon	NELA	\ P	NM100001	02-26-26		

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Received by OCD: 10/28/2025 6:58:12 AM

D-I	Client:			Devon Energy, Jim Raley)	Turn-Around	Time:	tard											IMEN		
4	Mailing	Address:	Carleba	3101 Boyd Dr	Project Nam			† •	10	01		ww	v.ha	llenv	iron	ment erqu	tal.c			ξΥ
			Carisbac		Project #:													885-33156 C	oc	
	Phone : email o			575.725.5001	Project Mana	Work Order (10 ager:	007044201)							4						
	QA/QC	Package: dard		☐ Level 4 (Full Validation)	Sally Cartta		com_	TMB's (8021)	/ MRO	PCB's		SIMS		PO ₄ , SO ₄			Coliform (Present/Absent)			
	Accredi			ompliance	Sampler:	Sharon N		TMB's) / DRC	8082 F	14.1)	r 8270		NO ₂ , F		7	resent			
	□ NEL	(Type) _	□ Other				□ No 14/1 by 2-0-2-0	MTBE /	D(GRC	icides/	hod 50	3310 0	/letals	NO ₃ ,	(F)	ni-VO/	form (F			
	Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.		TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	C)F, Br,	8260 (VOA)	8270 (Semi-VOA)	Total Coli			
Page	9.10.25	11:00	Soil	BS25-07 at 2ft	1, 4oz jar	ICE	1	х	Х					Х						
18 0	9.10.25	11:10	Soil	BS25-08 at 2ft	1, 4oz jar	ICE	7	х	Х					Х						1
18 of 19	9.10.25	11:30	Soil	WS25-07 at 2.5ft	1, 4oz jar	ICE	3	Х	Х					Х					+	
	9.10.25	11:45	Soil	WS25-08 at 2ft	1, 4oz jar	ICE	4	X	X					X						
																				+
9/24/2025	Date:	Time: (100 - Time: 1	Relinquish Relinquish	minno	Received by:	Via:	Date Time Olily 900 Date Time Olivery 7548	to D (Sca	evor artta mian	en En	ergy ertex ertex	ATT cresc	FN: J	e.cor	Raley m), m, ar	y CC nd Sh	naroi	ly Carttar	Dire	ect Bill









Login Sample Receipt Checklist

Client: Vertex Job Number: 885-33156-1

Login Number: 33156 List Source: Eurofins Albuquerque

List Number: 1

Creator: McQuiston, Steven

Creator. McQuiston, Steven	
Question	Answer Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td>	True
The cooler's custody seal, if present, is intact.	True
Sample custody seals, if present, are intact.	True
The cooler or samples do not appear to have been compromised or tampered with.	True
Samples were received on ice.	True
Cooler Temperature is acceptable.	True
Cooler Temperature is recorded.	True
COC is present.	True
COC is filled out in ink and legible.	True
COC is filled out with all pertinent information.	True
Is the Field Sampler's name present on COC?	True
There are no discrepancies between the containers received and the COC.	True
Samples are received within Holding Time (excluding tests with immediate HTs)	True
Sample containers have legible labels.	True
Containers are not broken or leaking.	True
Sample collection date/times are provided.	True
Appropriate sample containers are used.	True
Sample bottles are completely filled.	True
Sample Preservation Verified.	N/A
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True
Multiphasic samples are not present.	True
Samples do not require splitting or compositing.	True
Residual Chlorine Checked.	N/A

4

Report to: Sally Carttar



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

Vertex Resource Services Inc.

Project Name: Mesa Verde 7 Federal #002

Work Order: E509289

Job Number: 01058-0007

Received: 9/26/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/30/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/30/25

Sally Carttar 3101 Boyd Drive Carlsbad, NM 88220

Project Name: Mesa Verde 7 Federal #002

Workorder: E509289

Date Received: 9/26/2025 7:00:00AM

Sally Carttar,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/26/2025 7:00:00AM, under the Project Name: Mesa Verde 7 Federal #002.

The analytical test results summarized in this report with the Project Name: Mesa Verde 7 Federal #002 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Sample Summary

Γ	Vertex Resource Services Inc.	Project Name:	Mesa Verde 7 Federal #002	Domonto do
ı	3101 Boyd Drive	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Sally Carttar	09/30/25 10:45

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
Backfill-01 0'	E509289-01A Soil	09/24/25	09/26/25	Glass Jar, 2 oz.



Sample Data

Vertex Resource Services Inc.	Project Name:	Mesa Verde 7 Federal #002	
3101 Boyd Drive	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Sally Carttar	9/30/2025 10:45:05AM

Backfill-01 0' E509289-01

		E307207-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: SL		Batch: 2539153
Benzene	ND	0.0250	1	09/26/25	09/27/25	
Ethylbenzene	ND	0.0250	1	09/26/25	09/27/25	
Toluene	ND	0.0250	1	09/26/25	09/27/25	
o-Xylene	ND	0.0250	1	09/26/25	09/27/25	
p,m-Xylene	ND	0.0500	1	09/26/25	09/27/25	
Total Xylenes	ND	0.0250	1	09/26/25	09/27/25	
Surrogate: 4-Bromochlorobenzene-PID		97.4 %	70-130	09/26/25	09/27/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	Analyst: SL		Batch: 2539153
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/26/25	09/27/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.6 %	70-130	09/26/25	09/27/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	rst: HM		Batch: 2539141
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
Surrogate: n-Nonane		69.6 %	61-141	09/25/25	09/26/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: DT		Batch: 2539149
Chloride	160	20.0	1	09/26/25	09/26/25	



QC Summary Data

Mesa Verde 7 Federal #002 Vertex Resource Services Inc. Project Name: Reported: 01058-0007 3101 Boyd Drive Project Number: Carlsbad NM, 88220 Project Manager: Sally Carttar 9/30/2025 10:45:05AM **Volatile Organics by EPA 8021B** Analyst: SL Spike Source RPD Reporting Rec Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2539153-BLK1) Prepared: 09/26/25 Analyzed: 09/26/25 ND 0.0250 ND Ethylbenzene 0.0250 ND Toluene 0.0250 o-Xylene ND 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.87 8.00 98.3 70-130 LCS (2539153-BS1)

Benzene	4.75	0.0250	5.00	ND	95.0	70-130	
Matrix Spike (2539153-MS1)				Source:	E509287-0	1	Prepared: 09/26/25 Analyzed: 09/26/25
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.2	70-130	
Total Xylenes	15.5	0.0250	15.0		103	70-130	
p,m-Xylene	10.4	0.0500	10.0		104	70-130	
o-Xylene	5.13	0.0250	5.00		103	70-130	
Toluene	5.15	0.0250	5.00		103	70-130	
Ethylbenzene	5.11	0.0250	5.00		102	70-130	
Benzene	5.16	0.0250	5.00		103	70-130	

Benzene	4.75	0.0250	5.00	ND	95.0	70-130	
Ethylbenzene	4.66	0.0250	5.00	ND	93.2	70-130	
Toluene	4.72	0.0250	5.00	ND	94.5	70-130	
o-Xylene	4.76	0.0250	5.00	ND	95.2	70-130	
p,m-Xylene	9.52	0.0500	10.0	ND	95.2	70-130	
Total Xylenes	14.3	0.0250	15.0	ND	95.2	70-130	
Surrogate: 4-Bromochlorobenzene-PID	7.89		8.00		98.6	70-130	

Matrix Spike Dup (2539153-MSD1)				Source:	E509287-	01	Prepared: 09	9/26/25 Analyzed: 09/26/25
Benzene	5.31	0.0250	5.00	ND	106	70-130	11.1	27
Ethylbenzene	5.25	0.0250	5.00	ND	105	70-130	11.9	26
Toluene	5.29	0.0250	5.00	ND	106	70-130	11.4	20
o-Xylene	5.25	0.0250	5.00	ND	105	70-130	9.80	25
p,m-Xylene	10.6	0.0500	10.0	ND	106	70-130	11.2	23
Total Xylenes	15.9	0.0250	15.0	ND	106	70-130	10.7	26
Surrogate: 4-Bromochlorobenzene-PID	7.48		8.00		93.6	70-130		

Prepared: 09/26/25 Analyzed: 09/26/25

QC Summary Data

Vertex Resource Services Inc.	Project Name:	Mesa Verde 7 Federal #002	Reported:
3101 Boyd Drive	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Sally Carttar	9/30/2025 10:45:05AM

Carlsbad NM, 88220		Project Manage	r: Sa	lly Carttar				9/	30/2025 10:45:05AM
	Non	halogenated	Organics l	by EPA 80	15D - Gl	RO			Analyst: SL
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2539153-BLK1)							Prepared: 0	9/26/25 Ana	alyzed: 09/26/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.3	70-130			
LCS (2539153-BS2)							Prepared: 0	9/26/25 Ana	alyzed: 09/26/25
Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			
Matrix Spike (2539153-MS2)				Source:	E509287-)1	Prepared: 0	9/26/25 Ana	alyzed: 09/26/25
Gasoline Range Organics (C6-C10)	45.1	20.0	50.0	ND	90.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.2	70-130			
Matrix Spike Dup (2539153-MSD2)				Source:	E509287-0	01	Prepared: 0	9/26/25 Ana	alyzed: 09/26/25
Gasoline Range Organics (C6-C10)	47.9	20.0	50.0	ND	95.8	70-130	5.96	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.7	70-130			



QC Summary Data

Vertex Resource Services Inc.	Project Name:	Mesa Verde 7 Federal #002	Reported:
3101 Boyd Drive	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Sally Carttar	9/30/2025 10:45:05AM

Carlsbad NM, 88220		Project Manage	r: Sa	lly Carttar				9/3	0/2025 10:45:05AN
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: HM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2539141-BLK1)							Prepared: 0	9/25/25 Anal	yzed: 09/25/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.4		50.0		88.8	61-141			
LCS (2539141-BS1)							Prepared: 0	9/25/25 Anal	yzed: 09/25/25
Diesel Range Organics (C10-C28)	256	25.0	250		103	66-144			
Surrogate: n-Nonane	44.4		50.0		88.7	61-141			
Matrix Spike (2539141-MS1)				Source:	E509286-	05	Prepared: 0	9/25/25 Anal	yzed: 09/25/25
Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	56-156			
Surrogate: n-Nonane	34.3		50.0		68.6	61-141			
Matrix Spike Dup (2539141-MSD1)				Source:	E509286-	05	Prepared: 0	9/25/25 Anal	yzed: 09/25/25
Diesel Range Organics (C10-C28)	250	25.0	250	ND	100	56-156	2.67	20	
Surrogate: n-Nonane	32.8		50.0		65.6	61-141			

QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive		Project Name: Project Number:		Mesa Verde 7 Fo 01058-0007	ederal #002	2			Reported:
Carlsbad NM, 88220		Project Manager:	: :	Sally Carttar					9/30/2025 10:45:05AM
		Anions	by EPA	300.0/9056A	1				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2539149-BLK1)							Prepared: 0	9/26/25	Analyzed: 09/26/25
Chloride	ND	20.0							
LCS (2539149-BS1)							Prepared: 0	9/26/25	Analyzed: 09/26/25
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2539149-MS1)				Source:	E509287-0)1	Prepared: 0	9/26/25	Analyzed: 09/26/25
Chloride	332	20.0	250	68.9	105	80-120			
Matrix Spike Dup (2539149-MSD1)				Source:	E509287-0)1	Prepared: 0	9/26/25	Analyzed: 09/26/25
Chloride	335	20.0	250	68.9	106	80-120	0.886	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Vertex Resource Services Inc.	Project Name:	Mesa Verde 7 Federal #002	
3101 Boyd Drive	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Sally Carttar	09/30/25 10:45

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client Information

TAT

Page

Invoice Information

Lab Use Only

Received by OCD: 10/28/2025 6:58:12 AM

State

Printed: 9/26/2025 8:23:29AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Vertex Resource Services Inc.	Date Received:	09/26/25 0	7:00		Work Order ID:	E509289	
Phone:	(575) 748-0176	Date Logged In:	09/25/25 1	4:08		Logged In By:	Caitlin Mars	
Email:	scarttar@vertex.ca	Due Date:		7:00 (2 day TA	AT)			
	·							
Chain of	Custody (COC)							
1. Does th	ne sample ID match the COC?		Yes					
2. Does th	ne number of samples per sampling site location ma	tch the COC	Yes					
3. Were sa	amples dropped off by client or carrier?		Yes	Carrie	r: Courier			
4. Was the	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes					
5. Were a	ll samples received within holding time? Note: Analysis, such as pH which should be conducted i	n the field	Yes					
	i.e, 15 minute hold time, are not included in this disucssi					Commen	ts/Resolution	
	<u>urn Around Time (TAT)</u>							
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes					
Sample C								
	sample cooler received?		Yes					
•	was cooler received in good condition?		Yes					
9. Was the	e sample(s) received intact, i.e., not broken?		Yes					
10. Were	custody/security seals present?		No					
11. If yes,	were custody/security seals intact?		NA					
12. Was the	e sample received on ice?		Yes					
	Note: Thermal preservation is not required, if samples an	re received within						
12 0 0	15 minutes of sampling	C00C (0C :111						
	OC for individual sample temps. Samples outside of	of 0°C-6°C will be	recorded ii	n comments.				
Sample C								
	queous VOC samples present?		No					
	OC samples collected in VOA Vials?		NA					
	head space less than 6-8 mm (pea sized or less)?		NA					
	trip blank (TB) included for VOC analyses?	0	NA					
	on-VOC samples collected in the correct containers		Yes					
	appropriate volume/weight or number of sample contain	ners collected?	Yes					
Field Lab	nel field sample labels filled out with the minimum inf	ormation:						
	ample ID?		Yes					
	ate/Time Collected?		Yes					
	ollectors name?		No					
	reservation							
	the COC or field labels indicate the samples were p	reserved?	No					
	ample(s) correctly preserved?		NA					
24. Is lab	filtration required and/or requested for dissolved m	etals?	No					
	se Sample Matrix							
	the sample have more than one phase, i.e., multipha		No					
27. If yes,	, does the COC specify which phase(s) is to be anal	yzed?	NA					
Subcontr	act Laboratory							
28. Are sa	amples required to get sent to a subcontract laborate	ory?	No					
29. Was a	subcontract laboratory specified by the client and i	f so who?	NA	Subcontract	Lab: NA			
Client In	<u>istruction</u>							

Signature of client authorizing changes to the COC or sample disposition.

- (

Date

envirotech Inc.

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

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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

Action 517983

QUESTIONS

Operator:	OGRID:
HARVARD PETROLEUM COMPANY, LLC	10155
P.O. Box 936	Action Number:
Roswell, NM 88202	517983
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites						
Incident ID (n#)	nOY1814156697					
Incident Name	NOY1814156697 MESA VERDE 7 FEDERAL #002 @ 30-025-32399					
Incident Type	Oil Release					
Incident Status	Deferral Request Received					
Incident Well	[30-025-32399] MESA VERDE 7 FEDERAL #002					

Location of Release Source						
Please answer all the questions in this group.						
Site Name	Mesa Verde 7 Federal #002					
Date Release Discovered	05/02/2018					
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: Overflow - Tank, Pit, Etc. Tank (Any) Crude Oil Released: 15 BBL Recovered: 8 BBL Lost: 7 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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 517983

QUESTIONS (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC	OGRID: 10155
P.O. Box 936	Action Number:
Roswell, NM 88202	517983
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be 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.	e. gas only) are to be submitted on the C-129 form.
L w Lp	
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	
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 o 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 releathe 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 ases 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 t 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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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 3

Action 517983

QUESTIONS (continued)

Operator:	OGRID:
HARVARD PETROLEUM COMPANY, LLC	10155
P.O. Box 936	Action Number:
Roswell, NM 88202	517983
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

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	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and 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	n associated 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 milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 CI B)	260	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	20200	
GRO+DRO (EPA SW-846 Method 8015M)	15300	
BTEX (EPA SW-846 Method 8021B or 8260B)	176.2	
Benzene (EPA SW-846 Method 8021B or 8260B)	1.2	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes complete which includes the anticipated timelines for beginning and completing the remediation.	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
On what estimated date will the remediation commence	07/01/2025	
On what date will (or did) the final sampling or liner inspection occur	10/01/2025	
On what date will (or was) the remediation complete(d)	10/01/2025	
What is the estimated surface area (in square feet) that will be reclaimed	2420	
What is the estimated volume (in cubic yards) that will be reclaimed	449	
What is the estimated surface area (in square feet) that will be remediated	2420	
What is the estimated volume (in cubic yards) that will be remediated	449	
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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 517983

QUESTIONS (con	tinuea)
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Operator:	OGRID:
HARVARD PETROLEUM COMPANY, LLC	10155
P.O. Box 936	Action Number:
Roswell, NM 88202	517983
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

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	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
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	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

er 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 I hereby agree and sign off to the above statement Email: rkidd@buckhornproduction.com Date: 10/20/2025

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 517983

QUESTIONS (continued)

Operator:	OGRID:
HARVARD PETROLEUM COMPANY, LLC	10155
P.O. Box 936	Action Number:
Roswell, NM 88202	517983
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)
QUESTIONS	
Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each o	f 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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	The remaining contamination is located underneath the tank battery and related equipment. As such, site deconstruction will be required to complete remediation of the release. Such actions would result in excessive cost and time setbacks if completed before the decommission of the location.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	954
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	71
	iately under or around production equipment such as production tanks, wellheads and pipelines where In may be deferred with division written approval until the equipment is removed during other operations, or when
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-025-32399 MESA VERDE 7 FEDERAL #002
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed et which includes the anticipated timelines for beginning and completing the remediation.	Torts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
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 a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases 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 t 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

Date: 10/20/2025

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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 517983

QUESTIONS (continued)

Operator:	OGRID:
HARVARD PETROLEUM COMPANY, LLC	10155
P.O. Box 936	Action Number:
Roswell, NM 88202	517983
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	503385
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/10/2025
What was the (estimated) number of samples that were to be gathered	6
What was the sampling surface area in square feet	1200

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	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 517983

CONDITIONS

Operator:	OGRID:
HARVARD PETROLEUM COMPANY, LLC	10155
P.O. Box 936	Action Number:
Roswell, NM 88202	517983
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created B	/ Condition	Condition Date
rhamlet	Devon's deferral requests final remediation for (Incident Number NOY1814156697) until final reclamation of the well pad or major construction, whichever comes first. Vertex and Devon do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The impacted soil is the area designated as "Deferral Request Area" on figure 2 that is in close proximity to tank batteries and associated infrastructure, where remediation would require a major facility deconstruction. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and placed in the incident file. The release will remain open in OCD database files and reflect an open environmental issue.	11/21/2025