



Incident Number: nAPP2105050332

## Amended Release Assessment and Closure

Mesa Verde 6 Federal #002 (CTB)

Unit J, Section 06, Township 24 South, Range 32 East

API: 30-025-32202

County: Lea

Vertex File Number: 25A-00764

**Prepared for:**

Devon Energy Production Company, LP

**Prepared by:**

Vertex Resource Services Inc.

**Date:**

July 2025

**Devon Energy Production Company, LP**  
Mesa Verde 6 Federal #002 (CTB), nAPP2105050332

**Amended Release Assessment and Closure**  
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**Mesa Verde 6 Federal #002 (CTB)**  
**Unit J, Section 06, Township 24 South, Range 32 East**  
**API: 30-025-32202**  
**County: Lea**

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## 1.0 Introduction

Devon Energy Production Company, LP (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct an Amended Release Assessment and Closure for a produced water release that occurred on December 23, 2020, at Mesa Verde 6 Federal #002 (CTB), API 30-025-32202 (hereafter referred to as the “site”). Devon submitted an initial C-141 Release Notification (Appendix A) to New Mexico Oil Conservation Division (NMOCD) District 1 on February 19, 2021. Incident ID number nAPP2105050332 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 closure of this release, with the understanding that restoration of the release site will be 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 December 23, 2020, due to overpressure rupturing a produced water vessel. The incident was reported on December 23, 2020, and involved the release of approximately 367 barrels (bbl.) of produced water on the pad surface and adjacent pasture. Approximately 5 bbl. of free fluid was removed during initial clean-up. Additional details relevant to the release are presented in the C-141 Report.

## 3.0 Site Characteristics

The site is located approximately 20.5 miles west of Malaga, New Mexico (Google Inc., 2025). The legal location for the site is Unit J, Section 06, 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, 2023) 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, 2023). The karst geology potential for the site low (United States Department of the Interior, Bureau of Land Management, 2018).

#### 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 of the site. The borehole was advanced to a depth of 105 feet on December 14, 2023. The borehole was left to recharge as per the requirements on the WR-07 Application for Permit to Drill a Well with No Water Rights, and an interface probe was utilized to determine whether groundwater was present at the conclusion of the 72-hour recharge period. No water was found to be present at that time. The borehole was plugged and abandoned on December 21, 2023, according to the WR-08 permit, Well Plugging Plan of Operations, filed with NMOSE. Documentation related to the exploratory borehole is included in Appendix B.

There is no surface water 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 5.7 miles west of the site (United States Fish and Wildlife Service, 2023). At the site, there are no continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC. Information pertaining to the closure criteria determination is summarized in Table 1 and references are included in Appendix B.

Based on data included in the closure criteria determination worksheet, the release at the site is not subject to the requirements of Paragraph (4) of Subsection C of 19.15.29.12 of NMAC. The nearest depth to groundwater reference is 0.36 miles from the site; therefore, the closure criteria for the incident assumes depth to groundwater greater than 100 feet below ground surface (bgs). The closure criteria for the release area in the pasture will also adhere to Paragraph (1) of Subsection D of 19.15.29.13 NMAC for reclamation from surface to 4 feet bgs. The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 2 and Table 3 for pad and pasture, respectively.

Devon Energy Production Company, LP  
 Mesa Verde 6 Federal #002 (CTB), nAPP2105050332

Amended Release Assessment and Closure  
 July 2025

<b>Table 1. Closure Criteria Determination</b>			
<b>Site Name: Mesa Verde 6 Federal #2</b>			
<b>Spill Coordinates: 32.24446175,-103.7116394</b>		<b>X: 621373</b>	<b>Y: 3568261</b>
<b>Site Specific Conditions</b>		<b>Value</b>	<b>Unit</b>
1	Depth to Groundwater (nearest reference)	>105	feet
	Distance between release and nearest DTGW reference	1,894	feet
		0.36	miles
Date of nearest DTGW reference measurement		December 14, 2023	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	30,220	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	36,810	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	16,202	feet
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or	5,525	feet
	ii) Within 1000 feet of any fresh water well or spring	5,525	feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	2,837	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
	Distance between release and nearest registered mine	66,610	feet
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
	Distance between release and nearest unstable area	46,108	feet
10	Within a 100-year Floodplain	Undetermined	year
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	36,316	feet
11	Soil Type	fine sand, fine sandy loam	
12	Ecological Classification	Loamy sand	
13	Geology	Eolian and piedmont deposits	
	<b>NMAC 19.15.29.12 E (Table 1) Closure Criteria</b>	>100'	<50' 51-100' >100'

<b>Table 2. Closure Criteria for Soils Impacted by a Release</b>		
<b>Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS</b>	<b>Constituent</b>	<b>Limit</b>
> 100 feet	Chloride	20,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

TDS – total dissolved solids

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

BTEX – benzene, toluene, ethylbenzene and xylenes

<b>Table 3. Closure Criteria for Soils to Remediation &amp; Reclamation Standards</b>		
<b>Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS</b>	<b>Constituent</b>	<b>Limit</b>
0-4 feet bgs (19.15.29.13)	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
DTGW > 100 feet (19.15.29.12)	Chloride	20,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

bgs – below ground surface

DTGW – depth to groundwater

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

BTEX – benzene, toluene, ethylbenzene and xylenes

## 5.0 Remedial Actions Taken

### 5.1 Characterization and Confirmation Sampling

Release assessment and initial characterization of the release was completed by Safety and Environmental Solutions, Inc. (SESI) in January 2021 (Appendix D) and then completed by Vertex in May 2025. The initial characterization sample locations and release areas are presented on Figure 1 and reassessment of the characterization and release areas in the lease road are presented on Figure 2. The Daily Field Reports associated with the site visits are included in Appendix C. Characterization laboratory results are summarized in Tables 4 and 6.

Notification that confirmatory samples were being collected was provided to the NMOCD on May 12 and June 23, 2025. Confirmation composite samples were collected from the release area in increments of no larger than 200 square feet. On May 15 and June 23, 2025, Vertex personnel collected 12 confirmation samples for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico, under chain of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum

hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chloride (EPA Method 300.0). Laboratory results are presented in Table 7, and the laboratory data report is included in Appendix E. Release area and confirmation sample locations are shown on Figure 3.

## 5.2 Closure Denial

Remediation of the release was conducted by SESI in February and March 2021. Based on characterization results, contaminated material was removed through excavation to 1 or 2 feet bgs over the release area. SESI oversaw the removal of approximately 1,500 cubic yards of material from the site. SESI collected excavation confirmation samples between February 10 and 17, 2021. The SESI Remediation Plan & Closure Report includes photographs documenting various phases of the remediation and is included in Appendix D. The site was reassessed during sampling based on characterization results of the lease road. Vertex collected confirmation samples on May 15, 2025. Confirmation sample locations are presented on Figure 3. Confirmation laboratory results are presented in Table 5 and 7, and the laboratory data reports are included in the SESI Remediation Plan & Closure Report (Appendix D) and Laboratory Data Reports with Chain of Custody (Appendix E).

The SESI Remediation Plan & Closure Report was submitted to the NMOCD on November 17, 2022, and was denied on December 15, 2022, with the following explanation:

*“Release has not been sufficiently delineated. AH-18 has not been vertically delineated (AH-18 @ 3’ 9,000 mg/kg chloride). Report stated that location would be vertically delineated during excavation activities, yet area around AH-18 was only excavated to 2’. Please complete delineation/excavation activities around AH-18.”*

At the time of the initial closure request by SESI, a local or recent depth to groundwater reference for the site was not available; therefore, remediation was executed to the most stringent conditions (depth to groundwater <50 feet bgs). The advancement of the dry exploratory borehole on December 14, 2023, to 105 feet bgs demonstrates that the depth to groundwater exceeds 100 feet bgs (Appendix B). The current and local depth to groundwater reference changes the closure criteria to those referenced in Tables 2 and 3 and removes the requirement for vertical delineation. Under the updated closure criteria and characterization requirements, the samples SESI collected from AH-18 are now in compliance for delineation and closure.

The Vertex Closure Report was submitted to the NMOCD on March 25, 2024, and was denied on May 22, 2024, with the following explanation:

*“Please delineate/remediate the spill area on the lease road. Contamination on roads will need to be sampled and remediated if present. Roads, Pasture, and “Right of Ways” are all considered Off-Pad and need to meet reclamation standards set forth in the OCD Spill Rule. Horizontal delineation must meet the requirements of the reclamation standards 19.15.29.13 NMAC (600 mg/kg Cl, 100 mg/kg TPH, 50 mg/kg BTEX, 10 mg/kg benzene) or OCD approved “background” values for the upper 4 feet of the impacted area. Soil standards below 4 feet must be delineated/remediated to Table I Closure Criteria for the approved site-specific depth to groundwater. A surface visual footprint alone is not*

*sufficient when assessing the horizontal extent of the release. Laboratory data must be provided as evidence of delineation efforts.*

Sampling investigation along the lease road was completed to satisfy delineation requirements and revealed results meeting the requirements of reclamation standards and confirmation sampling determined compliance below criteria limits.

## 6.0 Closure Request

Vertex recommends no additional remediation action to address the release at Mesa Verde 6 Federal #002 (CTB). Laboratory analyses of the final confirmatory samples submitted by SESI 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 Tables 2 and 3 and to reclamation standards 19.15.29.13 NMAC. There are no anticipated risks to human, ecological or hydrological receptors associated with the release site.

Vertex requests that this incident (nAPP2105050332) be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. Devon certifies that all information in this report and the attachments is correct, and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain closure on December 23, 2020, release at Mesa Verde 6 Federal #002 (CTB).

Should you have any questions or concerns, please do not hesitate to contact the project manager Kent Stallings at 346.814.1413 or [kstallings@vertex.ca](mailto:kstallings@vertex.ca).

## 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. (2023). *Interactive Geologic Map*. Retrieved from <https://maps.nmt.edu/>
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- United States Department of Agriculture, Natural Resources Conservation Service. (2023). *Web Soil Survey*. Retrieved from <https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>
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- United States Fish and Wildlife Service. (2023). *National Wetland Inventory - Surface Waters and Wetlands*. Retrieved from <https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/>

## **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**

# Devon, Mesa Verde 6 Fed 2 Battery

napp2105050332

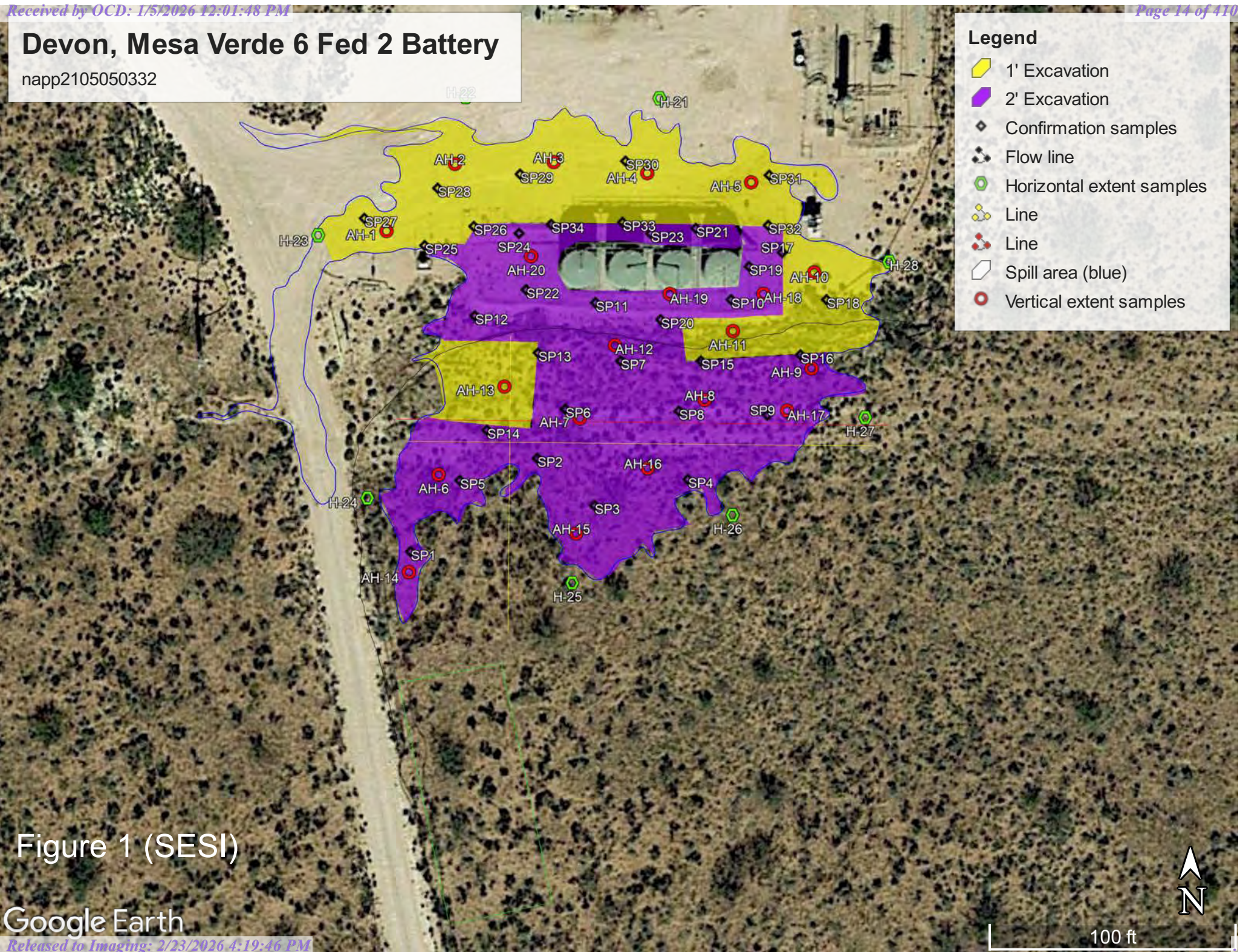
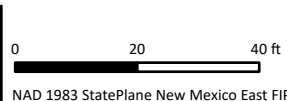


Figure 1 (SESI)

Google Earth

100 ft



Map Center:  
Lat/Long: 32.244413°N, 103.711873°W  
Date: May 23/25



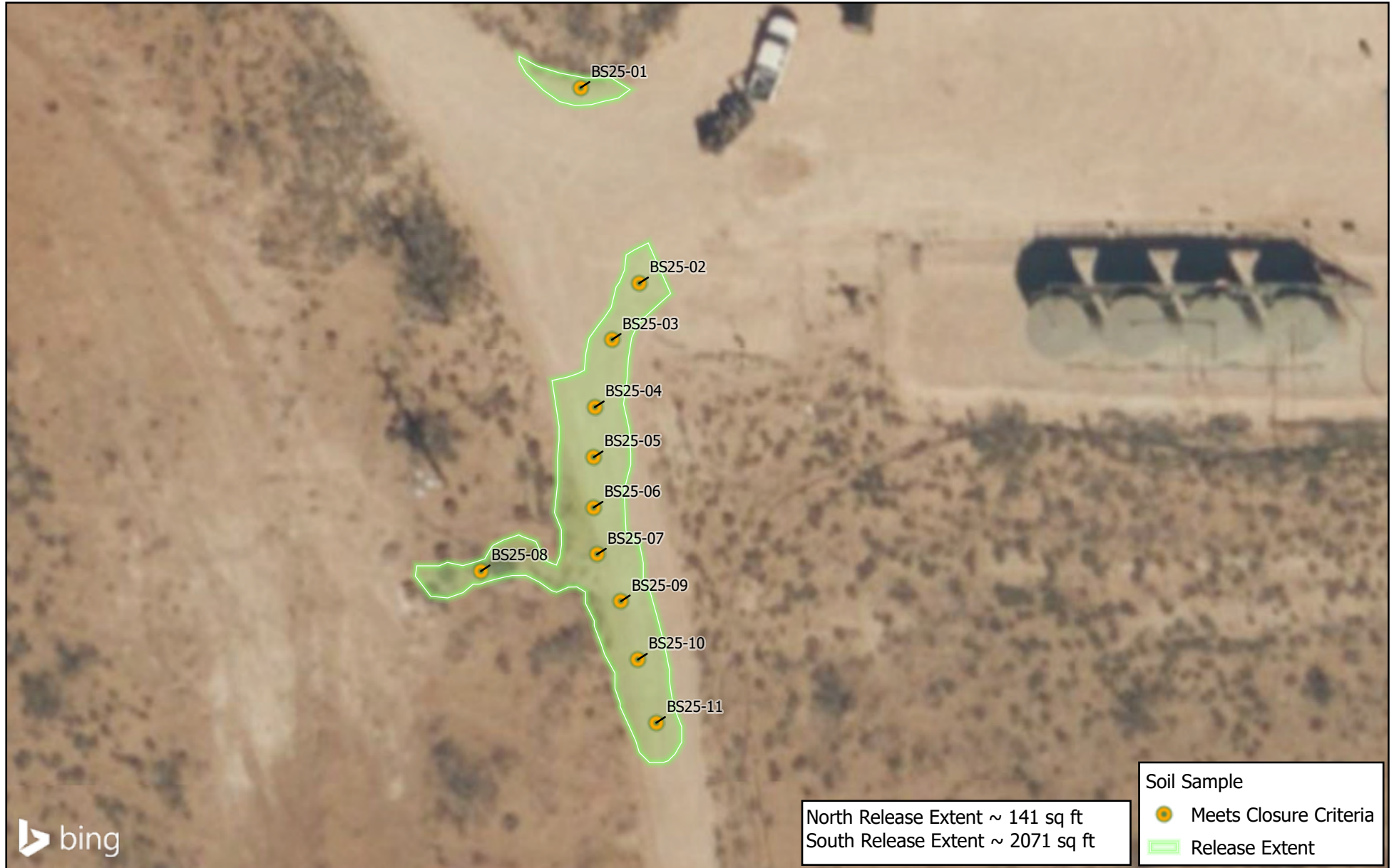
**Characterization Sample Site Schematic**  
**nAPP2105050332**  
**Mesa Verde 6 Federal #002 (CTB)**

FIGURE:  
**2**



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: 32.244393°N, 103.711911°W  
Date: May 21/25

0 20 40 ft  
NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

N

**Confirmation Sample Site Schematic**  
**nAPP2105050332**  
**Mesa Verde 6 Federal #002 (CTB)**

FIGURE:  
**3**

**devon**

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.

## **TABLES**

**Table 4. SESI Characterization**

Devon, Mesa Verde 6 Federal #2 Hall Environmental Labs: 1/5/21 to 1/7/21								
Sample ID	Chloride	DRO	MRO	GRO	Benzene	Toluene	Ethyl benzene	Total Xylenes
AH1 @ SURFACE	8200	7600	3300	750	ND	1.6	2.8	20
AH1 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND
AH2 @ SURFACE	7800	97	72	ND	ND	ND	ND	ND
AH2 @ 1'	86	ND	ND	ND	ND	ND	ND	ND
AH3 @ SURFACE	5100	18	ND	ND	ND	ND	ND	ND
AH3 @ 1'	90	ND	ND	ND	ND	ND	ND	ND
AH4 @ SURFACE	6500	48	ND	ND	ND	ND	ND	ND
AH4 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND
AH5 @ SURFACE	7000	230	290	ND	ND	ND	ND	ND
AH5 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND
AH6 @ SURFACE	8100	120	99	ND	ND	ND	ND	ND
AH6 @ 1'	5100	ND	ND	ND	ND	ND	ND	ND
AH6 @ 3'	67	ND	ND	ND	ND	ND	ND	ND
AH7 @ SURFACE	5100	1500	630	140	ND	0.95	1.5	8
AH7 @ 1'	1900	10	ND	ND	ND	ND	ND	ND
AH7 @ 2'	69	ND	ND	ND	ND	ND	ND	ND
AH8 @ SURFACE	8700	ND	ND	ND	ND	ND	ND	ND
AH8 @ 1'	1300	ND	ND	ND	ND	ND	ND	ND
AH8 @ 2'	ND	ND	ND	ND	ND	ND	ND	ND
AH9 @ SURFACE	800	ND	ND	ND	ND	ND	ND	ND
AH9 @ 1'	780	ND	ND	ND	ND	ND	ND	ND
AH9 @ 2'	ND	ND	ND	ND	ND	ND	ND	ND
AH10 @ SURFACE	6800	ND	ND	ND	ND	ND	ND	ND
AH10 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND
AH11 @ SURFACE	6500	130	72	6.6	ND	ND	ND	0.21
AH11 @ 1'	510	ND	ND	ND	ND	ND	ND	ND
AH11 @ 2'	190	ND	ND	ND	ND	ND	ND	ND
AH12 @ SURFACE	3000	ND	ND	ND	ND	ND	ND	ND
AH12 @ 1'	960	ND	ND	ND	ND	ND	ND	ND
AH12 @ 2'	ND	ND	ND	ND	ND	ND	ND	ND

**Table 4. SESI Characterization (continued)**

AH13 @ SURFACE	<b>7600</b>	<b>120</b>	<b>63</b>	ND	ND	ND	ND	ND
AH13 @ 1'	<b>550</b>	ND	ND	ND	ND	ND	ND	ND
AH13 @ 2'	ND	ND	ND	ND	ND	ND	ND	ND
AH14 @ SURFACE	<b>5200</b>	ND	ND	ND	ND	ND	ND	ND
AH14 @ 1'	<b>960</b>	ND	ND	ND	ND	ND	ND	ND
AH14 @ 3'	ND	ND	ND	ND	ND	ND	ND	ND
AH15 @ SURFACE	<b>6000</b>	ND	ND	ND	ND	ND	ND	ND
AH15 @ 1'	<b>1300</b>	ND	ND	ND	ND	ND	ND	ND
AH15 @ 2'	<b>290</b>	ND	ND	ND	ND	ND	ND	ND
AH16 @ SURFACE	<b>4500</b>	ND	ND	ND	ND	ND	ND	ND
AH16 @ 1'	<b>1100</b>	ND	ND	ND	ND	ND	ND	ND
AH16 @ 2'	<b>310</b>	ND	ND	ND	ND	ND	ND	ND
AH17 @ SURFACE	<b>540</b>	ND	ND	ND	ND	ND	ND	ND
AH17 @ 1'	<b>1100</b>	ND	ND	ND	ND	ND	ND	ND
AH17 @ 2'	ND	ND	ND	ND	ND	ND	ND	ND
AH18 @ SURFACE	<b>15000</b>	<b>2300</b>	<b>1000</b>	<b>190</b>	ND	<b>1.4</b>	<b>1.7</b>	<b>9.6</b>
AH18 @ 1'	<b>9600</b>	<b>390</b>	<b>1100</b>	<b>29</b>	ND	<b>0.39</b>	ND	<b>0.97</b>
AH18 @ 3'	<b>9000</b>	ND	ND	ND	ND	ND	ND	ND
AH19 @ SURFACE	<b>3800</b>	<b>13000</b>	<b>5700</b>	<b>3800</b>	<b>8.5</b>	<b>83</b>	<b>32</b>	<b>140</b>
AH19 @ 1'	<b>5700</b>	ND	ND	ND	ND	ND	ND	ND
AH19 @ 2'	<b>210</b>	ND	ND	ND	ND	ND	ND	ND
AH20 @ SURFACE	<b>2100</b>	<b>23</b>	<b>120</b>	ND	ND	ND	ND	ND
AH20 @ 1'	<b>5500</b>	ND	ND	ND	ND	ND	ND	ND
AH20 @ 2'	<b>230</b>	ND	ND	ND	ND	ND	ND	ND
<b>HORIZONTAL SAMPLES</b>								
H-21 NORTH	ND	ND	ND	ND	ND	ND	ND	ND
H-22 NORTH	ND	ND	ND	ND	ND	ND	ND	ND
H-23 WEST	ND	ND	ND	ND	ND	ND	ND	ND
H-24 WEST	ND	ND	ND	ND	ND	ND	ND	ND
H-25 SOUTH	ND	ND	ND	ND	ND	ND	ND	ND
H-26 SOUTH	ND	ND	ND	ND	ND	ND	ND	ND
H-27 EAST	ND	ND	ND	ND	ND	ND	ND	ND
H-27 EAST	ND	ND	ND	ND	ND	ND	ND	ND

**Table 5. SESI Confirmation Samples**

Devon, Mesa Verde 6 Federal #2 CONFIRMATION SAMPLES Hall Environmental Labs: 2/10/21-2/17/21								
Sample ID	Chloride	DRO	MRO	GRO	Benzene	Toluene	Ethyl benzene	Total Xylenes
SP1 @ 2.5' BTM	260	11	ND	ND	ND	ND	ND	ND
SP2 @ 2' BTM	ND	ND	ND	ND	ND	ND	ND	ND
SP3 @ 2' BTM	ND	ND	ND	ND	ND	ND	ND	ND
SP4 @ 2' BTM	ND	ND	ND	ND	ND	ND	ND	ND
SP5 @ 2' BTM	260	20	ND	ND	ND	ND	ND	ND
SP6 @ 2' BTM	71	ND	ND	ND	ND	ND	ND	ND
SP7 @ 2' BTM	73	12	ND	ND	ND	ND	ND	ND
SP8 @ 2' BTM	ND	ND	ND	ND	ND	ND	ND	ND
SP9 @ 2 BTM	ND	ND	ND	ND	ND	ND	ND	ND
SP10 @ 2' BTM	ND	ND	ND	ND	ND	ND	ND	ND
SP11 @ 2' BTM	ND	ND	ND	ND	ND	ND	ND	ND
SP12 @ 2' BTM	ND	ND	ND	ND	ND	ND	ND	ND
SP13 @ W WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP14 @ S WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP15 @ S WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP16 @ S WALL	87	ND	ND	ND	ND	ND	ND	ND
SP17 @ E WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP18 @ 1' BTM	250	ND	ND	ND	ND	ND	ND	ND
SP19 @ 2' BTM	250	12	ND	ND	ND	ND	ND	ND
SP20 @ 2' BTM	ND	ND	ND	ND	ND	ND	ND	ND
SP21 @ 2' BTM	ND	ND	ND	ND	ND	ND	ND	ND
SP22 @ 2' BTM	ND	ND	ND	ND	ND	ND	ND	ND
SP23 @ 2' BTM	81	ND	ND	ND	ND	ND	ND	ND
SP24 @ 2' BTM	ND	ND	ND	ND	ND	ND	ND	ND
SP25 @ W WALL	71	ND	ND	ND	ND	ND	ND	ND
SP26 @ W WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP27 @ 1' BTM	90	ND	ND	ND	ND	ND	ND	ND
SP28 @ 1' BTM	88	ND	ND	ND	ND	ND	ND	ND
SP29 @ 1' BTM	88	ND	ND	ND	ND	ND	ND	ND
SP30 @ 1' BTM	89	ND	ND	ND	ND	ND	ND	ND
SP31 @ 1' BTM	92	ND	ND	ND	ND	ND	ND	ND
SP32 @ E WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP33 @ N WALL	75	ND	ND	ND	ND	ND	ND	ND
SP34 @ N WALL	85	ND	ND	ND	ND	ND	ND	ND

Client Name: Devon Energy Production Company, LP  
 Site Name: Mesa Verde 6 Federal #2  
 NMOCD Tracking #: nAPP2105050332  
 Project #: 25A-00764  
 Lab Reports: 885-6048-1 and 885-24756-1

Table 6. Characterization Sample Field Screen and Laboratory Results

Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					Chloride Concentration (mg/kg)
			Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)	
BH24-01	0	June 6, 2024	ND	ND	ND	ND	ND	ND	ND	ND
	2	June 7, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BH24-02	0	June 6, 2024	ND	ND	ND	ND	ND	ND	ND	ND
	2	June 7, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BH24-03	0	June 6, 2024	ND	ND	ND	ND	ND	ND	ND	ND
	2	June 7, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BH24-04	0	June 6, 2024	ND	ND	ND	ND	ND	ND	ND	ND
	2	June 7, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BH24-05	0	June 6, 2024	ND	ND	ND	ND	ND	ND	ND	ND
	2	June 7, 2024	ND	ND	ND	ND	ND	ND	ND	130
BH24-06	0	June 7, 2024	ND	ND	ND	ND	ND	ND	ND	76
	2	June 7, 2024	ND	ND	ND	ND	ND	ND	ND	150
BH24-07	0	June 6, 2024	ND	ND	ND	ND	ND	ND	ND	ND
	2	June 7, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BH24-08	0	June 6, 2024	ND	ND	ND	ND	ND	ND	ND	ND
	2	June 7, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BH24-09	0	June 7, 2024	ND	ND	ND	ND	ND	ND	ND	80
	2	June 7, 2024	ND	ND	ND	ND	ND	ND	ND	110
BH24-10	0	June 6, 2024	ND	ND	ND	ND	ND	ND	ND	60
	2	June 7, 2024	ND	ND	ND	ND	ND	ND	ND	93
BH24-11	0	June 6, 2024	ND	ND	ND	ND	ND	ND	ND	ND
	2	June 7, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BH24-12	0	June 6, 2024	ND	ND	ND	ND	ND	ND	ND	230
	2	June 7, 2024	ND	ND	ND	ND	ND	ND	ND	160
BH24-13	0	June 6, 2024	ND	ND	ND	14	ND	14	14	250
	2	June 7, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BH24-14	0	June 6, 2024	ND	ND	ND	ND	ND	ND	ND	ND
	2	June 7, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BH24-15	0	June 6, 2024	ND	ND	ND	ND	ND	ND	ND	ND
	2	June 7, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BH24-16	0	June 6, 2024	ND	ND	ND	30	74	30	<b>104</b>	260
	2	June 7, 2024	ND	ND	ND	ND	ND	ND	ND	130
BH25-17	0	May 9, 2025	ND	ND	ND	ND	ND	ND	ND	65
	2	May 9, 2025	ND	ND	ND	ND	ND	ND	ND	110

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

**Bold and green shaded indicates exceedance outside of NMOCD Reclamation Closure Criteria**



Client Name: Devon Energy Production Company, LP  
 Site Name: Mesa Verde 6 Federal #002 (CTB)  
 NMOCD Tracking #: nAPP2105050332  
 Project #: 25A-00764  
 Lab Report: 885-25374

Table 7. Confirmation Sample Field Screen and Laboratory Results

Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					Chloride Concentration (mg/kg)
			Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)	
BS25-01	0	May 15, 2025	ND	ND	ND	ND	ND	ND	ND	320
BS25-02	0	May 15, 2025	ND	ND	ND	ND	ND	ND	ND	130
BS25-03	0	May 15, 2025	ND	ND	ND	ND	ND	ND	ND	130
BS25-04	0	May 15, 2025	ND	ND	ND	ND	ND	ND	ND	<b>680</b>
	0	June 23, 2025	ND	ND	ND	ND	ND	ND	ND	<b>320</b>
BS25-05	0	May 15, 2025	ND	ND	ND	ND	ND	ND	ND	76
BS25-06	0	May 15, 2025	ND	ND	ND	ND	ND	ND	ND	60
BS25-07	0	May 15, 2025	ND	ND	ND	ND	ND	ND	ND	210
BS25-08	0	May 15, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BS25-09	0	May 15, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BS25-10	0	May 15, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BS25-11	0	May 15, 2025	ND	ND	ND	ND	ND	ND	ND	ND

"ND" Not Detected at the Reporting Limit  
 "-" indicates not analyzed/assessed

**Bold and green shaded indicates exceedance outside of NMOCD Reclamation Closure Criteria**  
**Bold and blue shaded indicates re-collected sample results inside NMOCD Remediation Closure Criteria**



## **APPENDIX A – NMOCD C-141 Report**

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

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	NAPP2105050332
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party <b>Devon Energy</b>	OGRID <b>6137</b>
Contact Name <b>Amanda Trujillo Davis</b>	Contact Telephone <b>575-748-0176</b>
Contact email <b>amanda.davis@dvn.com</b>	Incident # <i>(assigned by OCD)</i>
Contact mailing address <b>6488 Seven Rivers Highway Artesia, NM 88210</b>	

### Location of Release Source

Latitude 32.2446175 Longitude -103.7116394  
*(NAD 83 in decimal degrees to 5 decimal places)*

Site Name <b>Mesa Verde 6 Federal #2</b>	Site Type <b>Battery</b>
Date Release Discovered <b>12-23-2020</b>	API# <i>(if applicable)</i> <b>30-025-32202</b>

Unit Letter	Section	Township	Range	County
<b>J</b>	<b>06</b>	<b>24S</b>	<b>32E</b>	<b>Lea County</b>

Surface Owner:  State  Federal  Tribal  Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <b>367 bbls</b>	Volume Recovered (bbls) <b>5 bbls</b>
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

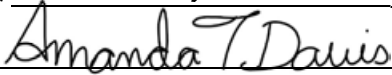
Cause of Release **The produced water vessel was over pressured causing a rupture and release to pasture. Spill volumes based on scada data.**

Incident ID	NAPP2105050332
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? <b>This release was over 25 bbls.</b>
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? <b>Notification was made by Lupe Carrasco on 12.23.20 at 1:26 pm to the following email addresses: Enviro, OCD, EMNRD &lt;OCD.Enviro@state.nm.us&gt;; 'blm_nm_cfo_spill@blm.gov'</b>	

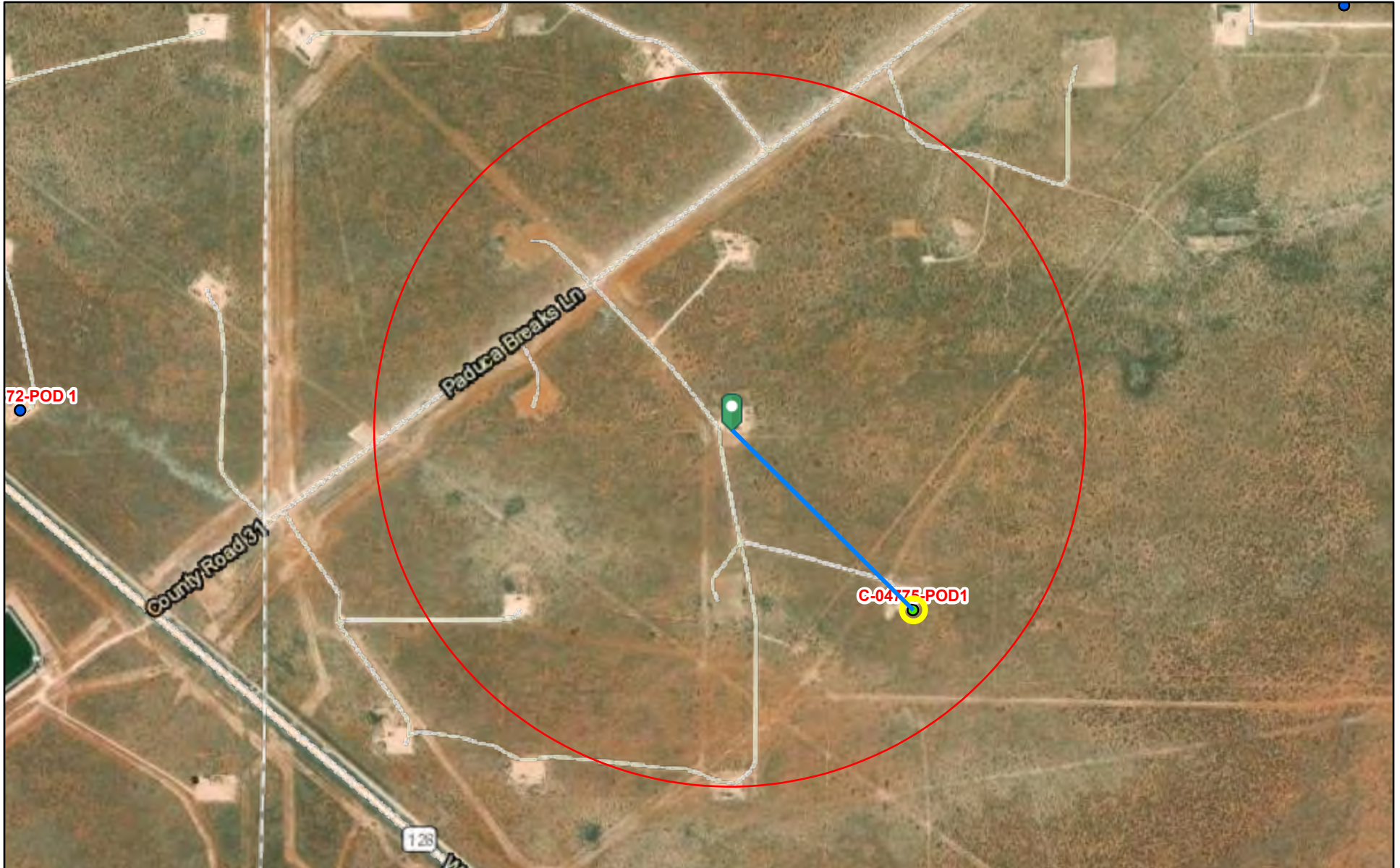
### Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

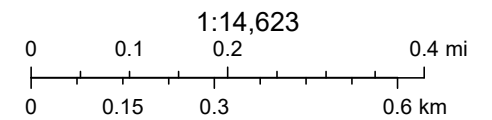
<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:  	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Amanda Trujillo Davis</u>	Title: <u>Environmental Professional</u>
Signature: <u></u>	Date: <u>2/19/21</u>
email: <u>amanda.davis@dvn.com</u>	Telephone: <u>575-748-0176</u>
<b><u>OCD Only</u></b>	
Received by: <u>Ramona Marcus</u>	Date: <u>2/23/2021</u>

## **APPENDIX B – Closure Criteria Research Documentation**

# Mesa Verde 6 Federal #2 - 1,894 ft from DTGW reference



1/26/2024, 11:33:37 AM



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



**WELL RECORD & LOG**  
**OFFICE OF THE STATE ENGINEER**  
 www.ose.state.nm.us

Mesa Verde 6F

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-4775 POD1		WELL TAG ID NO.		OSE FILE NO(S) C04775	
	WELL OWNER NAME(S) Devon Energy Resources				PHONE (OPTIONAL)	
	WELL OWNER MAILING ADDRESS 205 E. Bender Road # 150				CITY Hobbs	STATE ZIP NM 88240
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 14	SECONDS 26.8944	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84
LONGITUDE -103 42 26.1864 W						
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE						


2. DRILLING & CASING INFORMATION	LICENSE NO. 1833	NAME OF LICENSED DRILLER Jason Maley			NAME OF WELL DRILLING COMPANY Vision Resources			
	DRILLING STARTED 12-14-23	DRILLING ENDED 12-14-23	DEPTH OF COMPLETED WELL (FT) 105'	BORE HOLE DEPTH (FT) 105'	DEPTH WATER FIRST ENCOUNTERED (FT) Dry			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) Dry	DATE STATIC MEASURED 12-18-23		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	95'	6"	2" PVC SCH40	Thread	2"	SCH40	N/A
	95'	105'	6"	2" PVC SCH40	Thread	2"	SCH40	.05

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE- RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
				None Pulled and Plugged		

FOR OSE INTERNAL USE			WR-20 WELL RECORD & LOG (Version 09/22/2022)		
FILE NO.	POD NO.		TRN NO.		
LOCATION			WELL TAG ID NO.		PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0	10'	10'	Red coarse sand	Y ✓ N	
	10'	30'	20'	Tan Fine sand with coarse 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 small rock	Y ✓ N	
	80'	105'	25'	Tan fine sand with caliche	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY: Dry				TOTAL ESTIMATED WELL YIELD (gpm): 0		

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:		
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME	Jason Maley	1/10/24 DATE

FOR USE INTERNAL USE			WR-20 WELL RECORD & LOG (Version 09/22/2022)		
FILE NO.	POD NO.		TRN NO.		
LOCATION			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**

**I. GENERAL / WELL OWNERSHIP:**

State Engineer Well Number: c-4775 Pod1

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

8) Date well plugging plan of operations was approved by the State Engineer: 9-21-23

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- 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:

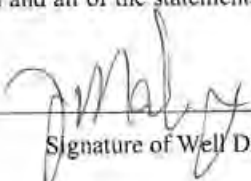
Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
0		155	155	Tremie pipe Open Hole	
	Wyoming Bentonite				
105'					

MULTIPLY	BY	AND OBTAIN
cubic feet x	7.4805	= gallons
cubic yards x	201.97	= gallons

**III. SIGNATURE:**

I, 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.

  
 \_\_\_\_\_  
 Signature of Well Driller

1/10/24  
 \_\_\_\_\_  
 Date



# 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 Number	POD Code	Sub-basin	County	Q Q Q				Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
				64	16	4	4									
<a href="#">C 04775 POD1</a>		CUB	LE	4	4	4	06	24S	32E	621789	3567860	577	105			
<a href="#">C 04672 POD 1</a>		CUB	ED	2	1	4	01	24S	31E	619762	3568286	1611	110			
<a href="#">C 03555 POD1</a>		C	LE	2	2	1	05	24S	32E	622748	3569233	1684	600	380	220	
<a href="#">C 04712 POD1</a>		CUB	LE	1	4	1	31	23S	32E	620917	3570289	2078	55			
<a href="#">C 03530 POD1</a>		C	LE	3	4	3	07	24S	32E	620886	3566156	2159	550			
<a href="#">C 04746 POD1</a>		CUB	ED	3	4	3	36	23S	31E	619226	3569417	2439	105			
<a href="#">C 04687 POD1</a>		CUB	ED	4	2	3	12	24S	31E	619481	3566450	2618	110			
<a href="#">C 03529 POD1</a>		C	LE	2	4	3	29	23S	32E	622651	3571212	3216	550			
<a href="#">C 02405</a>		CUB	ED	4	1	02	24S	31E	617690	3568631*	3701	275	160	115		
<a href="#">C 02464</a>		C	ED	2	3	1	02	24S	31E	617645	3568581	3742	320	205	115	
<a href="#">C 02460</a>		C	ED	3	02	24S	31E	617496	3568022*	617496	3568022*	3884	320			
<a href="#">C 02460 POD2</a>		C	ED	3	02	24S	31E	617496	3568022*	617496	3568022*	3884	320			
<a href="#">C 03527 POD1</a>		C	LE	1	2	3	03	24S	32E	625770	3568487	4402	500			
<a href="#">C 04780 POD1</a>		CUB	LE	1	3	1	34	23S	32E	625364	3570521	4586	80			
<a href="#">C 03851 POD1</a>		CUB	LE	3	3	4	20	23S	32E	622880	3572660	4649	1392	713	679	
<a href="#">C 02348</a>		C	ED	1	4	3	26	23S	31E	617648	3571068	4664	700	430	270	
<a href="#">C 02350</a>		CUB	ED	4	3	10	24S	32E	625826	3566333*	4852	60				
<a href="#">C 02258</a>		C	ED	3	2	26	23S	31E	618055	3571853*	4889	662				

Average Depth to Water: **377 feet**  
 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

## Water Right Summary



[get image list](#)

**WR File Number:** C 04775      **Subbasin:** CUB      **Cross Reference:** -  
**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**

Trn #	Doc	File/Act	Status		Transaction Desc.	From/	Acres	Diversion	Consumptive
			1	2		To			
<a href="#">751179</a>	<a href="#">EXPL</a>	<a href="#">2023-09-19</a>	PMT	APR	C-4775 POD1	T	0	0	

**Current Points of Diversion**

POD Number	Well Tag	Source	Q			X	Y	Other Location Desc
			64	16	Q4Sec			
<a href="#">C 04775 POD1</a>	NA		4	4	4	06	24S 32E	621789 3567860

(NAD83 UTM in meters)

**Source**

Acres	Diversion	CU	Use	Priority	Source Description
0	0		MON		GW

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# New Mexico Office of the State Engineer

## Transaction Summary

### EXPL Permit To Explore

**Transaction Number:** 751179      **Transaction Desc:** C-4775 POD1      **File Date:** 09/15/2023

**Primary Status:** PMT Permit  
**Secondary Status:** APR Approved  
**Person Assigned:** \*\*\*\*\*  
**Applicant:** DEVON ENERGY RESOURCES  
**Contact:** DALE WOODALL

#### Events

Date	Type	Description	Comment	Processed By
09/15/2023	APP	Application Received	*	*****
09/15/2023	TEC	Technical Report	*PLUG PLAN C-4775	*****
09/19/2023	FTN	Finalize non-published Trans.		*****
10/26/2023	QAT	Quality Assurance Completed	SQ2	*****
10/31/2023	QAT	Quality Assurance Completed	IMAGE	*****
01/12/2024	LOG	Well Log Received	*WELL LOG C-4775-	*****
01/12/2024	DRY	Dry well log received	DRY WELL C-4775-	*****
01/12/2024	LGI	Well Log Image	*PLG RECORD C-	*****

#### Water Right Information

WR File Nbr	Acres	Diversion	Consumptive	Purpose of Use
C 04775	0	0		MON MONITORING WELL
<b>**Point of Diversion</b>				
C 04775 POD1		621789	3567860	

#### Conditions

- 1A Depth of the well shall not exceed the thickness of the valley fill.
- 4 No water shall be appropriated and beneficially used under this permit.
- B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record. The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.

- 6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable
- 7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- 16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.
- P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- Q The State Engineer retains jurisdiction over this permit.
- R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

**Action of the State Engineer**

SHOULD THE PERMITTEE CHANGE THE PURPOSE OF USE TO OTHER THAN MONITORING PURPOSES, AN APPLICATION SHALL BE ACQUIRED FROM THE OFFICE OF THE STATE ENGINEER.

**\*\* See Image For Any Additional Conditions of Approval \*\***

**Approval Code:** A - Approved

**Action Date:** 09/19/2023

**Log Due Date:** 09/18/2024

**State Engineer:** Mike A. Hamman, P.

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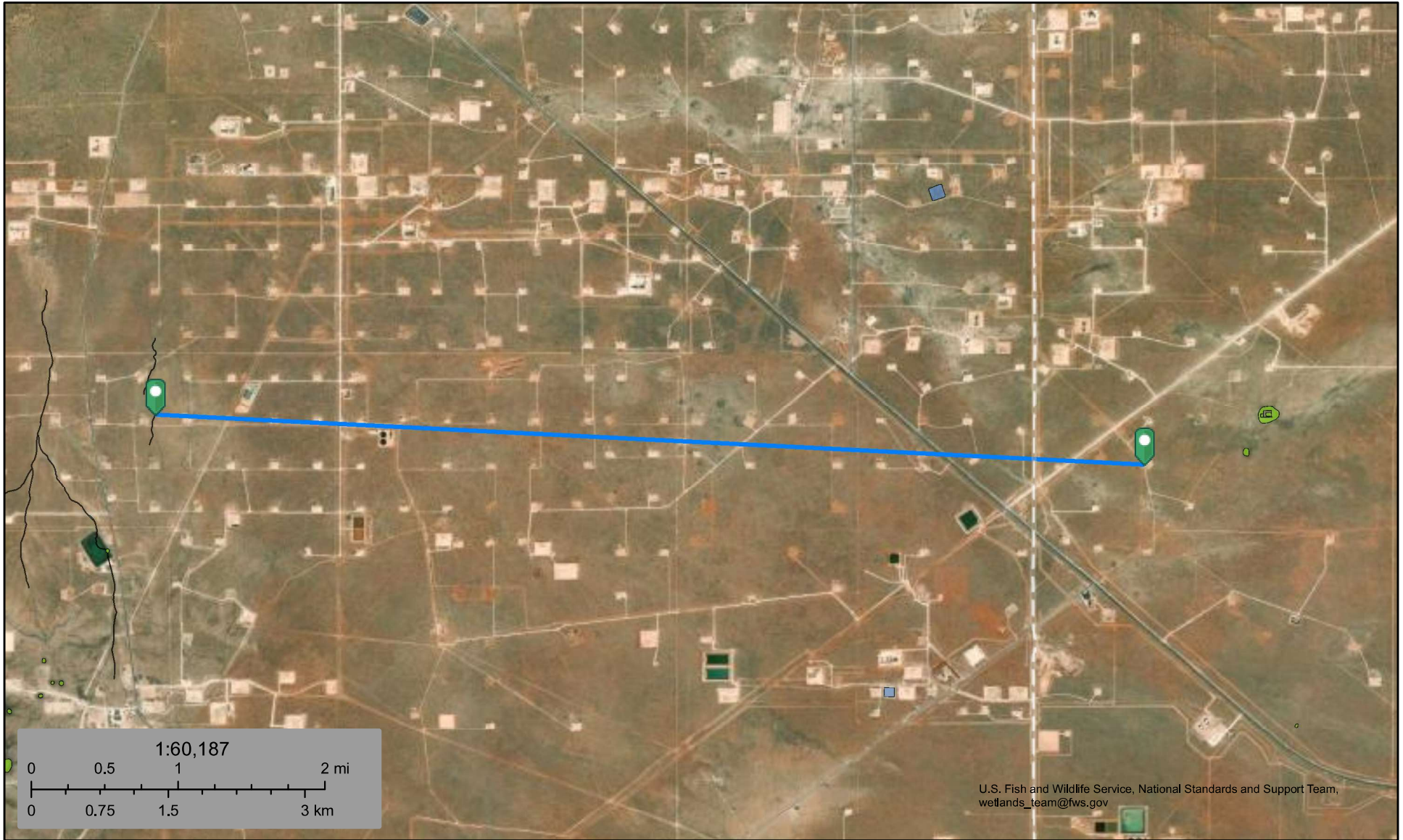
1/26/24 11:25 AM

TRANSACTION  
SUMMARY



# U.S. Fish and Wildlife Service National Wetlands Inventory

## Intermittent 30,220 feet



January 27, 2024

### Wetlands

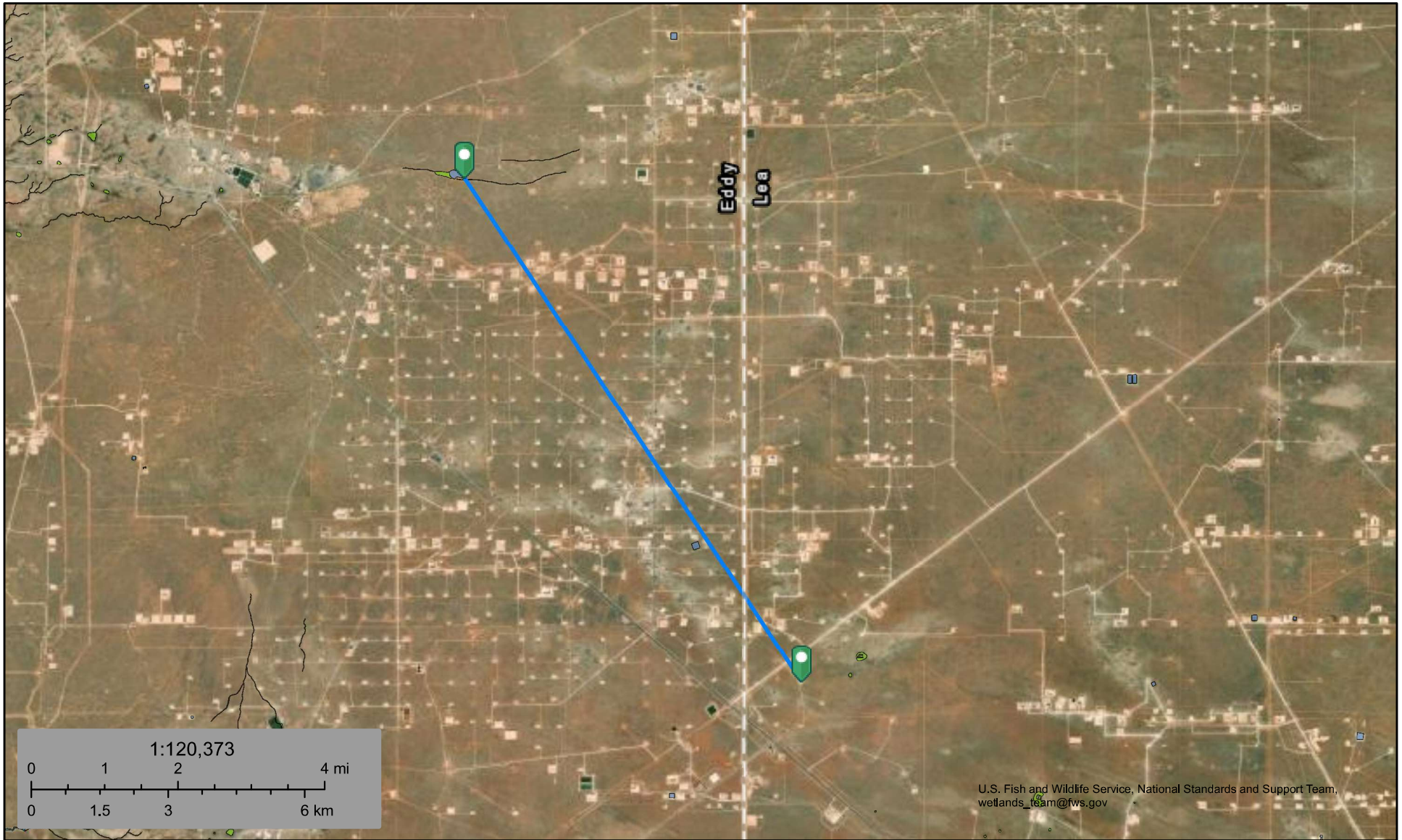
- |  |                                |  |                                   |  |       |
|--|--------------------------------|--|-----------------------------------|--|-------|
|  | Estuarine and Marine Deepwater |  | Freshwater Emergent Wetland       |  | Lake  |
|  | Estuarine and Marine Wetland   |  | Freshwater Forested/Shrub Wetland |  | Other |
|  | Freshwater Pond                |  | 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.



U.S. Fish and Wildlife Service  
National Wetlands Inventory

Pond 36,810 feet



January 27, 2024

**Wetlands**

- |                                |                                   |       |
|--------------------------------|-----------------------------------|-------|
| Estuarine and Marine Deepwater | Freshwater Emergent Wetland       | Lake  |
| Estuarine and Marine Wetland   | Freshwater Forested/Shrub Wetland | Other |
| Freshwater Pond                | 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

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)						(NAD83 UTM in meters)	
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
NA	C 03555 POD1	2	2	1	05	24S	32E	622748	3569233

<b>Driller License:</b> 1654	<b>Driller Company:</b> NOT WORKING FOR HIRE--SIRMAN DRILLING AND CONSTRUC	
<b>Driller Name:</b>		
<b>Drill Start Date:</b> 10/20/2013	<b>Drill Finish Date:</b> 10/21/2013	<b>Plug Date:</b>
<b>Log File Date:</b> 11/07/2013	<b>PCW Rev Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 5 GPM
<b>Casing Size:</b> 6.00	<b>Depth Well:</b> 600 feet	<b>Depth Water:</b> 380 feet

<b>Water Bearing Stratifications:</b>	<b>Top</b>	<b>Bottom</b>	<b>Description</b>
	475	550	Sandstone/Gravel/Conglomerate

<b>Casing Perforations:</b>	<b>Top</b>	<b>Bottom</b>	
	460	520	

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6/17/23 1:29 PM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Water Right Summary



**WR File Number:** C 03555      **Subbasin:** C      **Cross Reference:** -  
**Primary Purpose:** STK 72-12-1 LIVESTOCK WATERING  
**Primary Status:** PMT PERMIT  
**Total Acres:**      **Subfile:** -      **Header:** -  
**Total Diversion:** 3      **Cause/Case:** -  
**Owner:** NGL WATER SOLUTIONS PERMIAN  
**Contact:** R CHARLES WILKIN

**Documents on File**

Trn #	Doc	File/Act	Status			Transaction Desc.	From/		Acres	Diversion	Consumptive
			1	2			To				
<a href="#">get images</a>	<a href="#">677211</a>	<a href="#">UWL</a>	<a href="#">2020-08-06</a>	UWL	ACC	C 03555	T			0	
<a href="#">get images</a>	<a href="#">633172</a>	<a href="#">COWNF</a>	<a href="#">2018-09-17</a>	CHG	PRC	C 03555	T			0	
<a href="#">get images</a>	<a href="#">534311</a>	<a href="#">72121</a>	<a href="#">2013-09-19</a>	PMT	LOG	C 03555	T			3	
<a href="#">get images</a>	<a href="#">506470</a>	<a href="#">72121</a>	<a href="#">2012-06-29</a>	EXP	EXP	C 03555	T			3	

**Current Points of Diversion**

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q			X			Y			Other Location Desc
			64	Q16	Q4	Sec	Tws	Rng				
<a href="#">C 03555 POD1</a>	NA	Shallow	2	2	1	05	24S	32E	622748	3569233		

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.

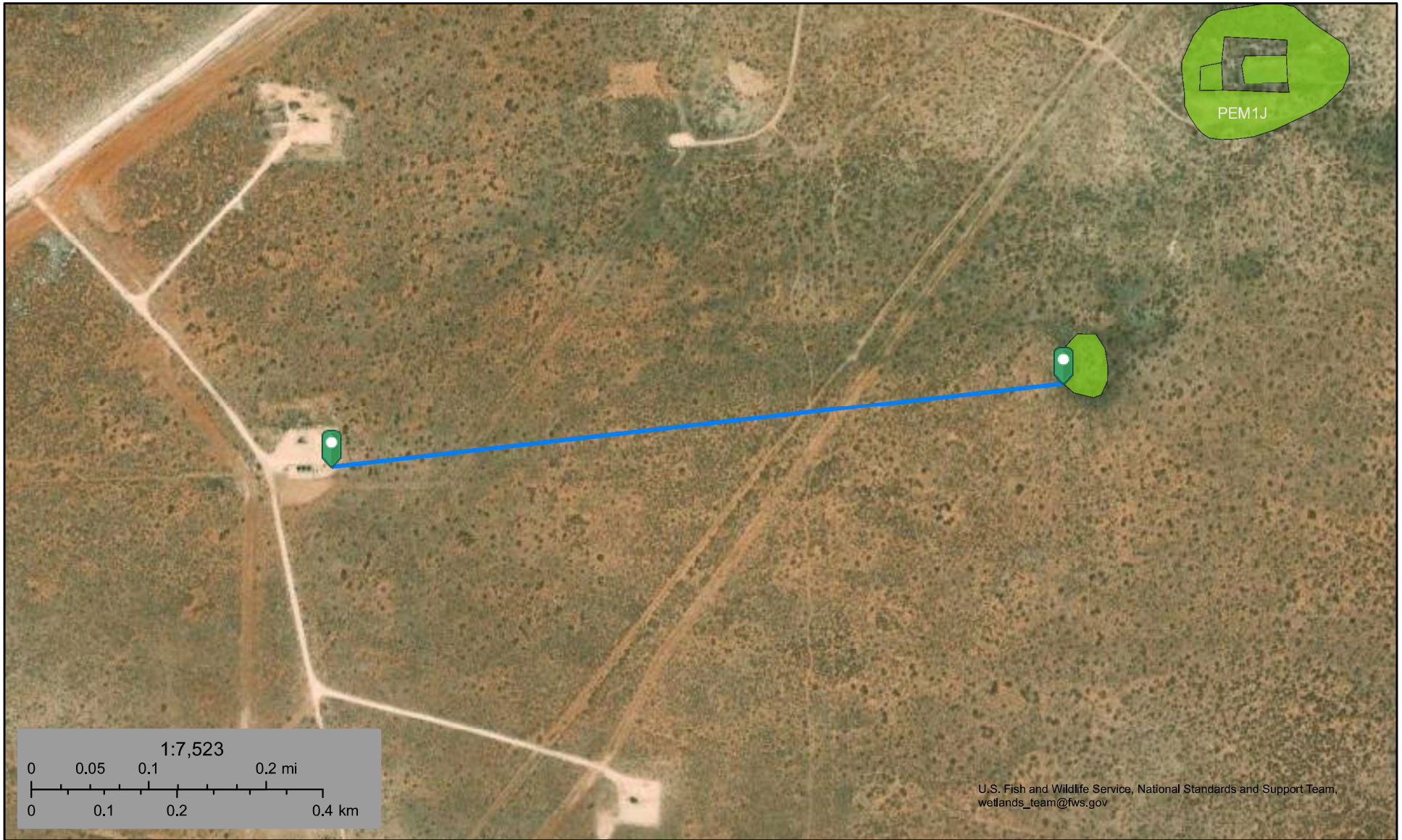
6/17/23 1:35 PM

WATER RIGHT SUMMARY



U.S. Fish and Wildlife Service  
National Wetlands Inventory

Wetland 2,837 feet



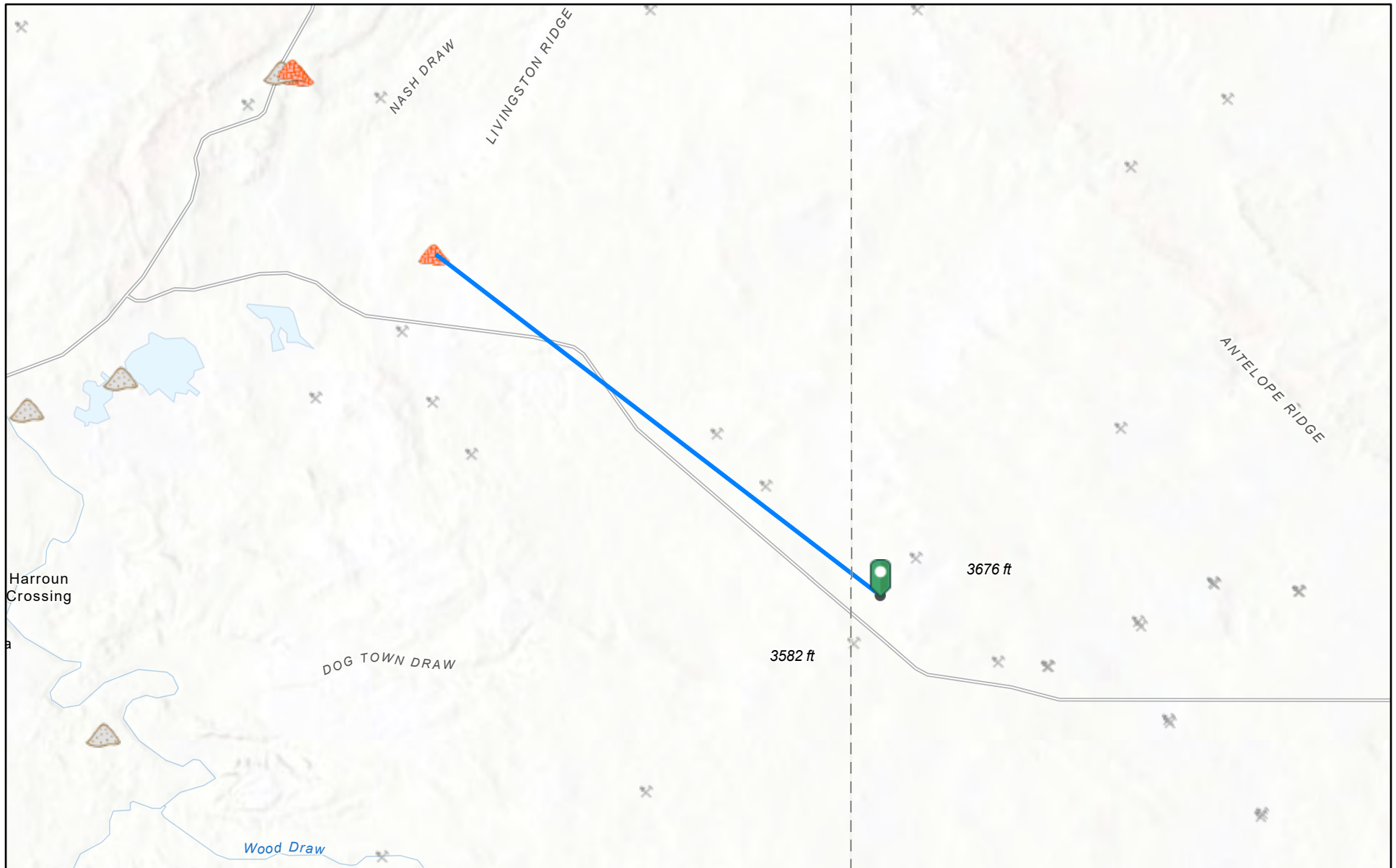
January 27, 2024

**Wetlands**

- |  |                                |  |                                   |  |       |
|--|--------------------------------|--|-----------------------------------|--|-------|
|  | Estuarine and Marine Deepwater |  | Freshwater Emergent Wetland       |  | Lake  |
|  | Estuarine and Marine Wetland   |  | Freshwater Forested/Shrub Wetland |  | Other |
|  | Freshwater Pond                |  | Riverine                          |  |       |

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# Mesa Verde 6 Federal #2 - 66,610 feet from mine



1/26/2024, 11:42:30 AM

Registered Mines

Aggregate, Stone etc.



Aggregate, Stone etc.



Aggregate, Stone etc.

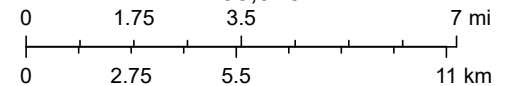


Potash



Salt

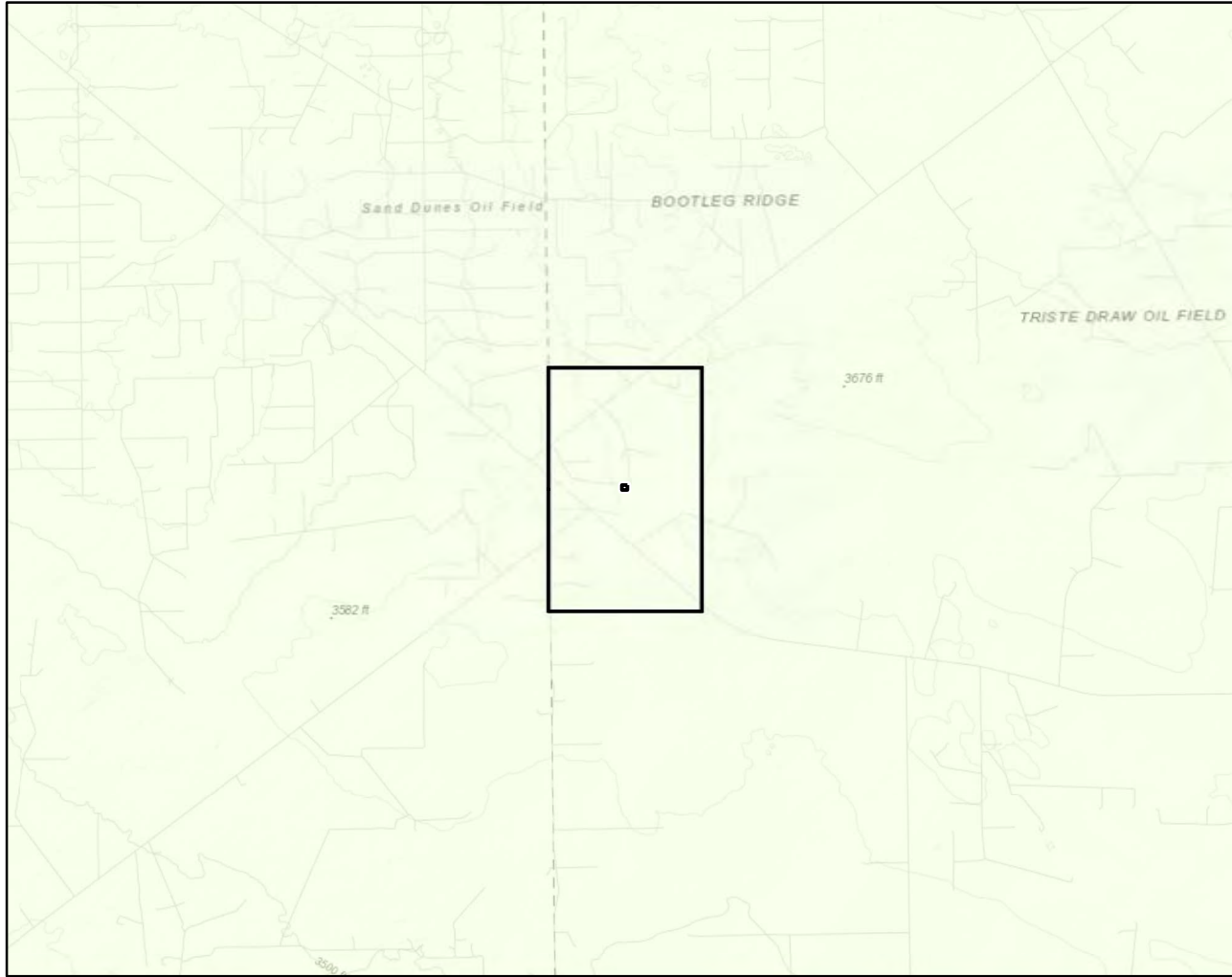
1:233,976



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

EMNRD MMD GIS Coordinator

NM Energy, Minerals and Natural Resources Department (<http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795>)



**Karst Potential**

- Critical
- High
- Medium
- Low

Approximate Lease Boundary

**Overview Map**

0 0.25 0.5 1 1.5 mi

**Detail Map**

0 750 1,500 ft.



Map Center:  
Lat/Long: 32.237016, -103.711706

NAD 1983 UTM Zone 13N  
Date: May 01/20



**Karst Potential  
Mesa Verde 6 Fed 2**

FIGURE:

**X**

**Logo  
Goes  
Here**





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.

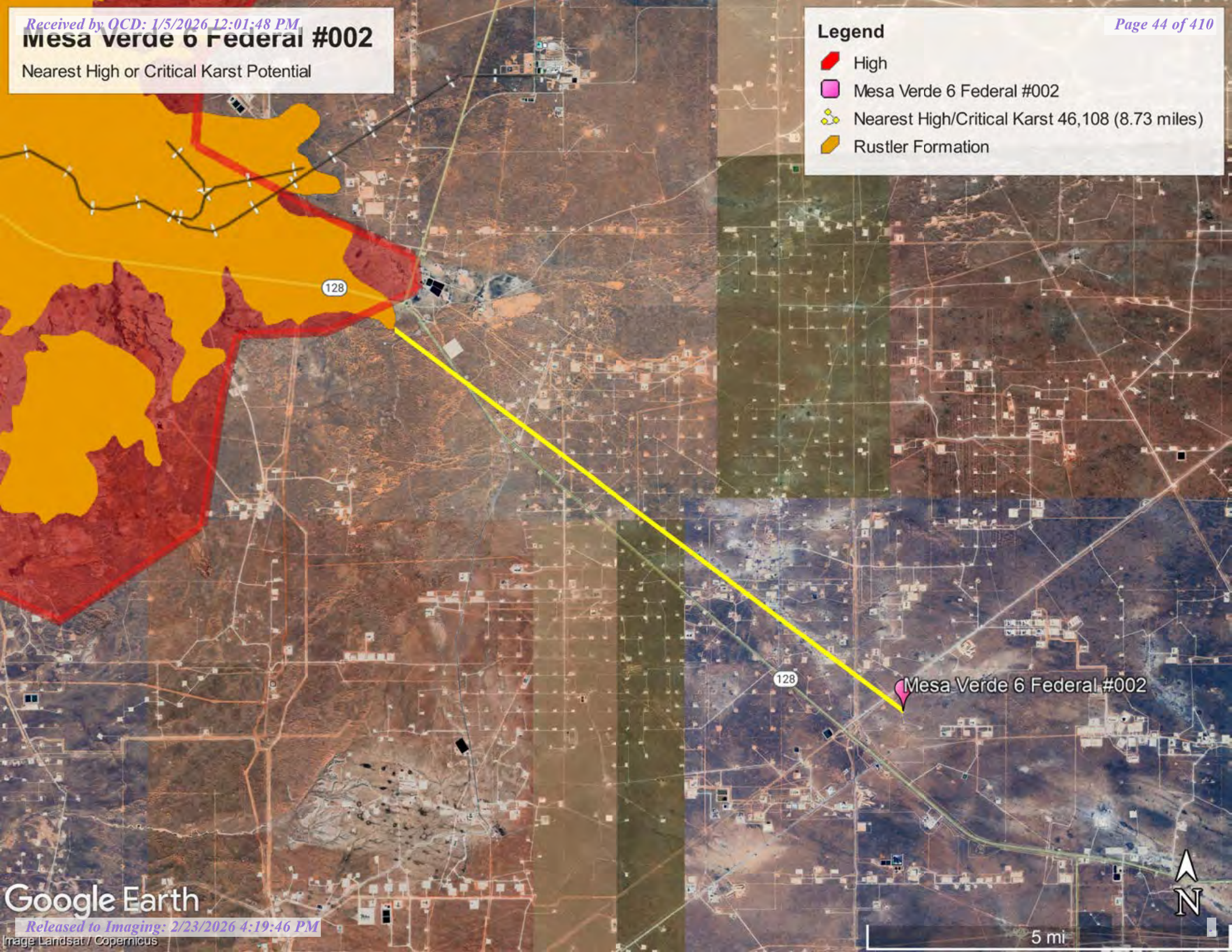
Note: Inset Map, ESRI 20XX; Overview Map: ESRI World Topographic

# Mesa Verde 6 Federal #002

Nearest High or Critical Karst Potential

## Legend

-  High
-  Mesa Verde 6 Federal #002
-  Nearest High/Critical Karst 46,108 (8.73 miles)
-  Rustler Formation



# National Flood Hazard Layer FIRMMette



103°43'1"W 32°14'55"N



## Legend

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

- SPECIAL FLOOD HAZARD AREAS**
    - Without Base Flood Elevation (BFE) Zone A, V, A99
    - With BFE or Depth Zone AE, AO, AH, VE, AR
    - Regulatory Floodway
  - OTHER AREAS OF FLOOD HAZARD**
    - 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
    - Future Conditions 1% Annual Chance Flood Hazard Zone X
    - Area with Reduced Flood Risk due to Levee. See Notes. Zone X
    - Area with Flood Risk due to Levee Zone D
  - OTHER AREAS**
    - NO SCREEN Area of Minimal Flood Hazard Zone X
    - Effective LOMRs
    - Area of Undetermined Flood Hazard Zone D
  - GENERAL STRUCTURES**
    - Channel, Culvert, or Storm Sewer
    - Levee, Dike, or Floodwall
  - OTHER FEATURES**
    - Cross Sections with 1% Annual Chance Water Surface Elevation
    - Coastal Transect
    - Base Flood Elevation Line (BFE)
    - Limit of Study
    - Jurisdiction Boundary
    - Coastal Transect Baseline
    - Profile Baseline
    - Hydrographic Feature
  - MAP PANELS**
    - Digital Data Available
    - No Digital Data Available
    - Unmapped
- The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

0 250 500 1,000 1,500 2,000 Feet

1:6,000

103°42'23"W 32°14'25"N

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 6/17/2023 at 4:17 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.

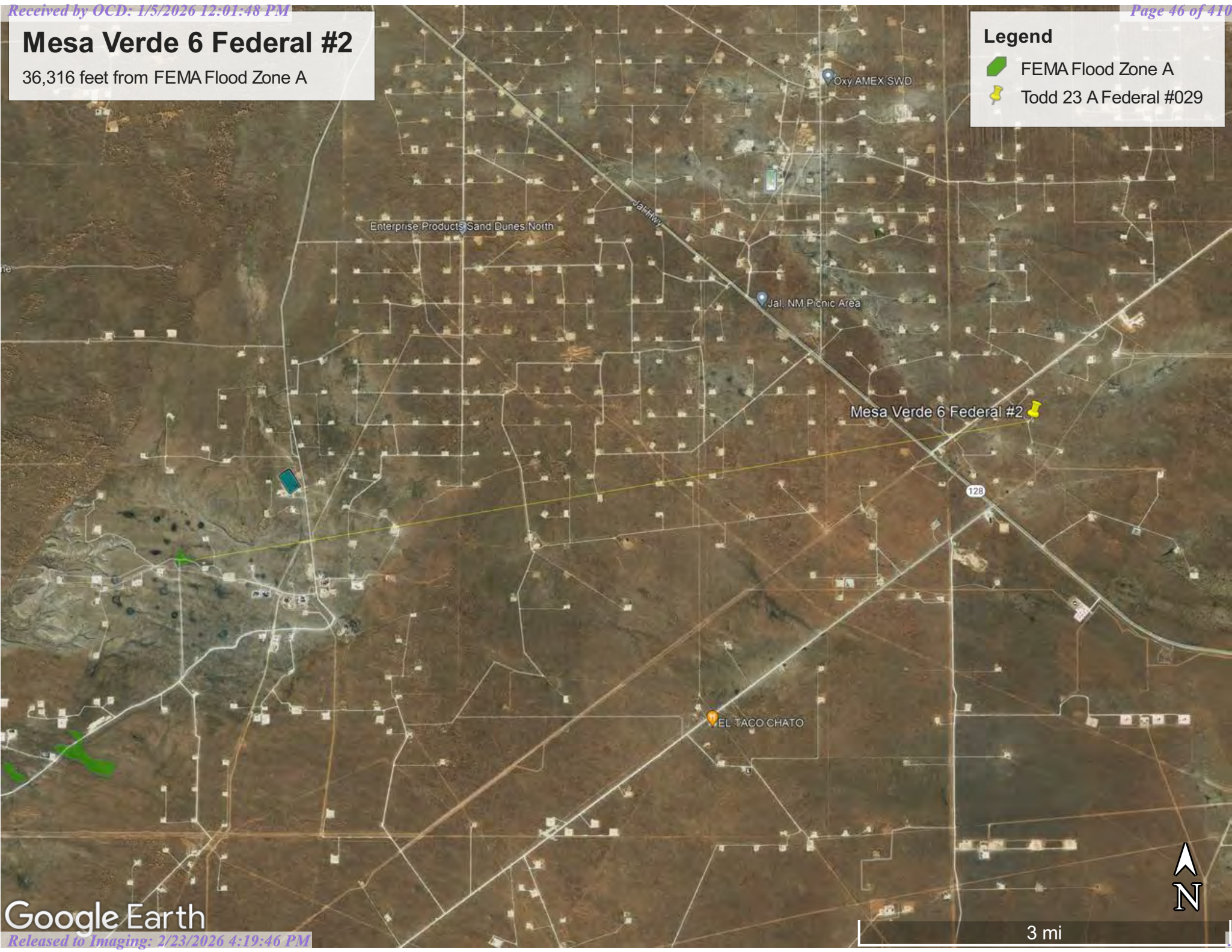
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory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

# Mesa Verde 6 Federal #2

36,316 feet from FEMA Flood Zone A

## Legend

-  FEMA Flood Zone A
-  Todd 23 A Federal #029





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



# 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](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.

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## How Soil Surveys Are Made

---

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

## Custom Soil Resource Report

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

## Soil Map

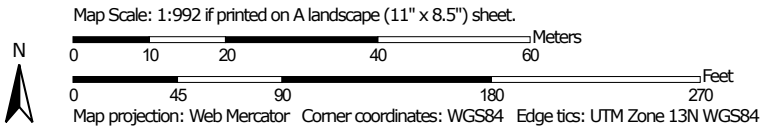
---

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.

### Custom Soil Resource Report Soil Map




Soil Map may not be valid at this scale.



Custom Soil Resource Report

**MAP LEGEND**

**Area of Interest (AOI)**

 Area of Interest (AOI)




















**Soils**







 Soil Map Unit Polygons

 Soil Map Unit Lines


 Soil Map Unit Points

**Special Point Features**






-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features


**Water Features**

 Streams and Canals

**Transportation**

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

**Background**

 Aerial Photography

**MAP INFORMATION**

The soil surveys that comprise your AOI were mapped at 1:20,000.

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

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

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

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL:  
 Coordinate System: Web Mercator (EPSG:3857)

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

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

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

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

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

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

## Custom Soil Resource Report

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PU	Pyote and Maljamar fine sands	4.1	100.0%
<b>Totals for Area of Interest</b>		<b>4.1</b>	<b>100.0%</b>

## 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.

## Custom Soil Resource Report

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.

## Custom Soil Resource Report

## 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 supply, 0 to 60 inches:* Low (about 5.1 inches)

**Interpretive groups**

*Land capability classification (irrigated):* 6e  
*Land capability classification (nonirrigated):* 7s  
*Hydrologic Soil Group:* A  
*Ecological site:* R070BD003NM - Loamy Sand  
*Hydric soil rating:* No

## Custom Soil Resource Report

**Description of Maljamar****Setting**

*Landform:* Plains

*Landform position (three-dimensional):* Rise

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Sandy eolian deposits derived from sedimentary rock

**Typical profile**

*A - 0 to 24 inches:* fine sand

*Bt - 24 to 50 inches:* sandy clay loam

*Bkm - 50 to 60 inches:* cemented material

**Properties and qualities**

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* 40 to 60 inches to petrocalcic

*Drainage class:* Well drained

*Runoff class:* Very low

*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 5 percent

*Gypsum, maximum content:* 1 percent

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

*Sodium adsorption ratio, maximum:* 2.0

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

**Interpretive groups**

*Land capability classification (irrigated):* 6e

*Land capability classification (nonirrigated):* 7e

*Hydrologic Soil Group:* B

*Ecological site:* R070BD003NM - Loamy Sand

*Hydric soil rating:* No

**Minor Components****Kermit**

*Percent of map unit:* 10 percent

*Ecological site:* R070BC022NM - Sandhills

*Hydric soil rating:* No

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## Ecological site R070BD003NM Loamy Sand

Accessed: 06/17/2023

### General information

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

#### Figure 1. Mapped extent

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

### Associated sites

R070BD004NM	<b>Sandy</b> Sandy
R070BD005NM	<b>Deep Sand</b> Deep Sand

**Table 1. Dominant plant species**

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

### Physiographic features

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

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

**Table 2. Representative physiographic features**

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

### Climatic features

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

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

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

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

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

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

**Table 3. Representative climatic features**

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

### Influencing water features

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

### Soil features

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

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

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

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

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

Characteristic soils are:

Maljamar

Berino

Parjarito

Palomas

Wink

Pyote

**Table 4. Representative soil features**

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

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

## Ecological dynamics

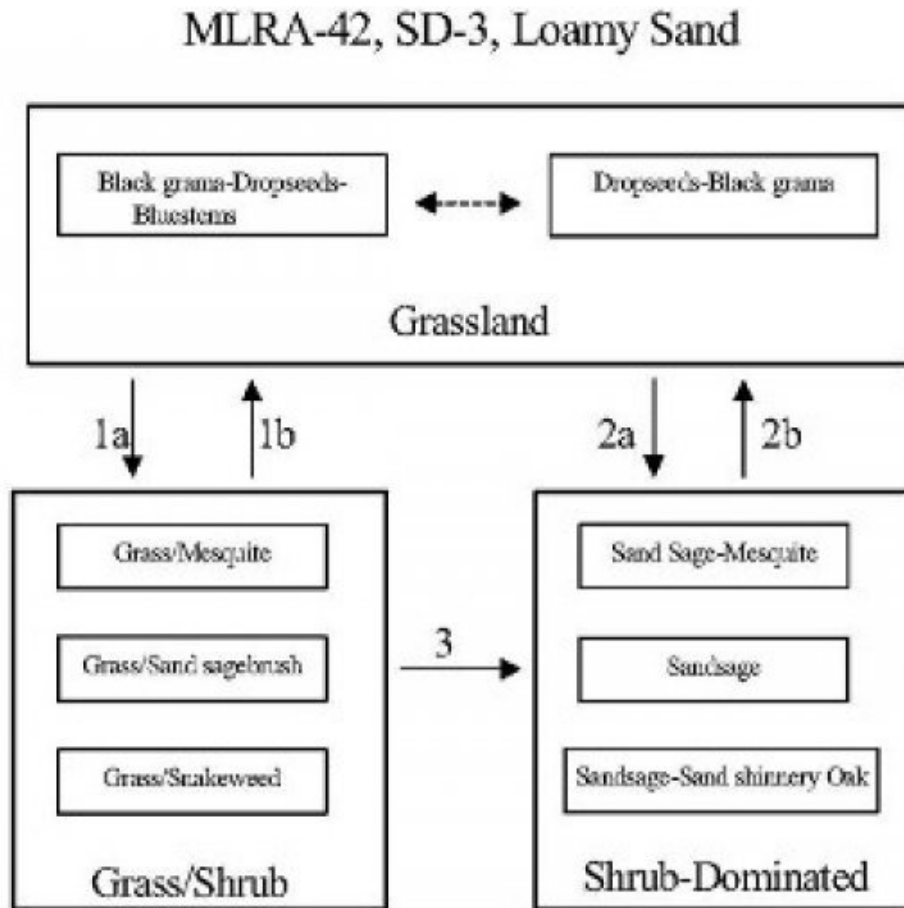
### Overview

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

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

### State and transition model

**Plant Communities and Transitional Pathways (diagram):**



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

**State 1  
Historic Climax Plant Community**

**Community 1.1  
Historic Climax Plant Community**

Grassland: The historic plant community is a uniformly distributed grassland dominated by black grama, dropseeds, and bluestems. Sand sage and shinnery oak are evenly dispersed throughout the grassland due to the coarse soil

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

**Table 5. Annual production by plant type**

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

**Table 6. Ground cover**

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

**Figure 5. Plant community growth curve (percent production by month). NM2803, R042XC003NM-Loamy Sand-HCPC. SD-3 Loamy Sand - Warm season plant community .**

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

**State 2  
Grass/Shrub**

**Community 2.1  
Grass/Shrub**



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

### **State 3 Shrub Dominated**

#### **Community 3.1 Shrub Dominated**

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

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

## Additional community tables

Table 7. Community 1.1 plant community composition

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

	sand sagebrush	ARFI2	<i>Artemisia filifolia</i>	61–123	–
	Havard oak	QUHA3	<i>Quercus havardii</i>	61–123	–
11	<b>Shrub</b>			34–61	
	fourwing saltbush	ATCA2	<i>Atriplex canescens</i>	37–61	–
	featherplume	DAFO	<i>Dalea formosa</i>	37–61	–
12	<b>Shrub</b>			37–61	
	jointfir	EPHED	<i>Ephedra</i>	37–61	–
	littleleaf ratany	KRER	<i>Krameria erecta</i>	37–61	–
13	<b>Other Shrubs</b>			37–61	
	Shrub (>.5m)	2SHRUB	<i>Shrub (&gt;.5m)</i>	37–61	–
<b>Forb</b>					
14	<b>Forb</b>			61–123	
	leatherweed	CRPOP	<i>Croton pottsii var. pottsii</i>	61–123	–
	Indian blanket	GAPU	<i>Gaillardia pulchella</i>	61–123	–
	globemallow	SPHAE	<i>Sphaeralcea</i>	61–123	–
15	<b>Forb</b>			12–37	
	woolly groundsel	PACA15	<i>Packera cana</i>	12–37	–
16	<b>Forb</b>			61–123	
	touristplant	DIWI2	<i>Dimorphocarpa wislizeni</i>	61–123	–
	woolly plantain	PLPA2	<i>Plantago patagonica</i>	61–123	–
17	<b>Other Forbs</b>			37–61	
	Forb (herbaceous, not grass nor grass-like)	2FORB	<i>Forb (herbaceous, not grass nor grass-like)</i>	37–61	–

## Animal community

This Ecological Site provides habitat which supports a resident animal community that is characterized by pronghorn antelope, desert cottontail, spotted ground squirrel, black-tailed prairie dog, yellow faced pocket gopher, Ord's kangaroo rat, northern grasshopper mouse, southern plains woodrat, badger, roadrunner, meadowlark, burrowing owl, white necked raven, lesser prairie chicken, morning dove, scaled quail, Harris hawk, side blotched lizard, marbled whiptail, Texas horned lizard, western diamondback rattlesnake, dusty hognose snake and ornate box turtle.

Where mesquite has invaded, most resident birds and scissor-tailed flycatcher, morning dove and Swainson's hawk, nest. Vesper and grasshopper sparrows utilize the site during migration.

## Hydrological functions

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

Hydrologic Interpretations

Soil Series Hydrologic Group

Berino B

Kinco A

Maljamar B

Pajarito B

Palomas B

Wink B

Pyote A

## Recreational uses

This site offers recreation potential for hiking, borseback riding, nature observation, photography and hunting. During years of abundant spring moisture, this site displays a colorful array of wildflowers during May and June.

### Wood products

This site has no potential for wood products.

### Other products

This site is suitable for grazing by all kinds and classes of livestock at any time of year. In cases where this site has been invaded by brush species it is especially suited for goats. Mismanagement of this site will cause a decrease in species such as the bluestems, black grama, bush muhly, plains bristlegrass, New Mexico feathergrass, Arizona cottontop and fourwing saltbush. A corresponding increase in the dropseeds, windmill grass, fall witchgrass, silver bluestem, sand sagebrush, shinary oak and ephedra will occur. This will also cause an increase in bare ground which will increase soil erodibility. This site will respond well to a system of management that rotates the season of use.

### Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month

Similarity Index Ac/AUM

100 - 76 2.3 – 3.5

75 – 51 3.0 – 4.5

50 – 26 4.6 – 9.0

25 – 0 9.1 +

### 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, Major Land Resource Areas of New Mexico. This site has been mapped and correlated with soils in the following soil surveys. Eddy County, Lea County, and Chaves County.

### Other references

Literature Cited:

Ansley, R. J.; Jacoby, P. W. 1998. Manipulation of fire intensity to achieve mesquite management goals in north Texas. In: Pruden, Teresa L.; Brennan, Leonard A., eds. Fire in ecosystem management: shifting the paradigm from suppression to prescription: Proceedings, Tall Timbers fire ecology conference; 1996 May 7-10; Boise, ID. No. 20. Tallahassee, FL: Tall Timbers Research Station: 195-204.

Ansley, R. J.; Jones, D. L.; Tunnell, T. R.; [and others]. 1998. Honey mesquite canopy responses to single winter fires: relation to herbaceous fuel, weather and fire temperature. International Journal of Wildland Fire 8(4):241-252.

Britton, Carlton M.; Wright, Henry A. 1971. Correlation of weather and fuel variables to mesquite damage by fire. Journal of Range Management 24:136-141.

Davis, Joseph H., III and Bonham, Charles D. 1979. Interference of sand sagebrush canopy with needleandthread. Journal of Range Management 32(5):384-386.

Herbel, C. H, Steger, R, Gould, W. L. 1974. Managing semidesert ranges of the Southwest Circular 456. Las Cruces, NM: New Mexico State University, Cooperative Extension Service. 48 p.

McDaniel, Kirk C.; Pieper, Rex D.; Loomis, Lyn E.; Osman, Abdelgader A. 1984. Taxonomy and ecology of perennial snakeweeds in New Mexico. Bulletin 711. Las Cruces, NM: New Mexico State University, Agricultural Experiment Station. 34 p.

McPherson, Guy R. 1995. The role of fire in the desert grasslands. In: McClaran, Mitchel P.; Van Devender, Thomas R., eds. The desert grassland. Tucson, AZ: The University of Arizona Press: 130-151.

Pettit, Russell D. 1986. Sand shinnery oak: control and management. Management Note 8. Lubbock, TX: Texas Tech University, College of Agricultural Sciences, Department of Range and Wildlife Management. 5 p.

**Contributors**

Don Sylvester  
Quinn Hodgson

**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:**

---

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):**

---

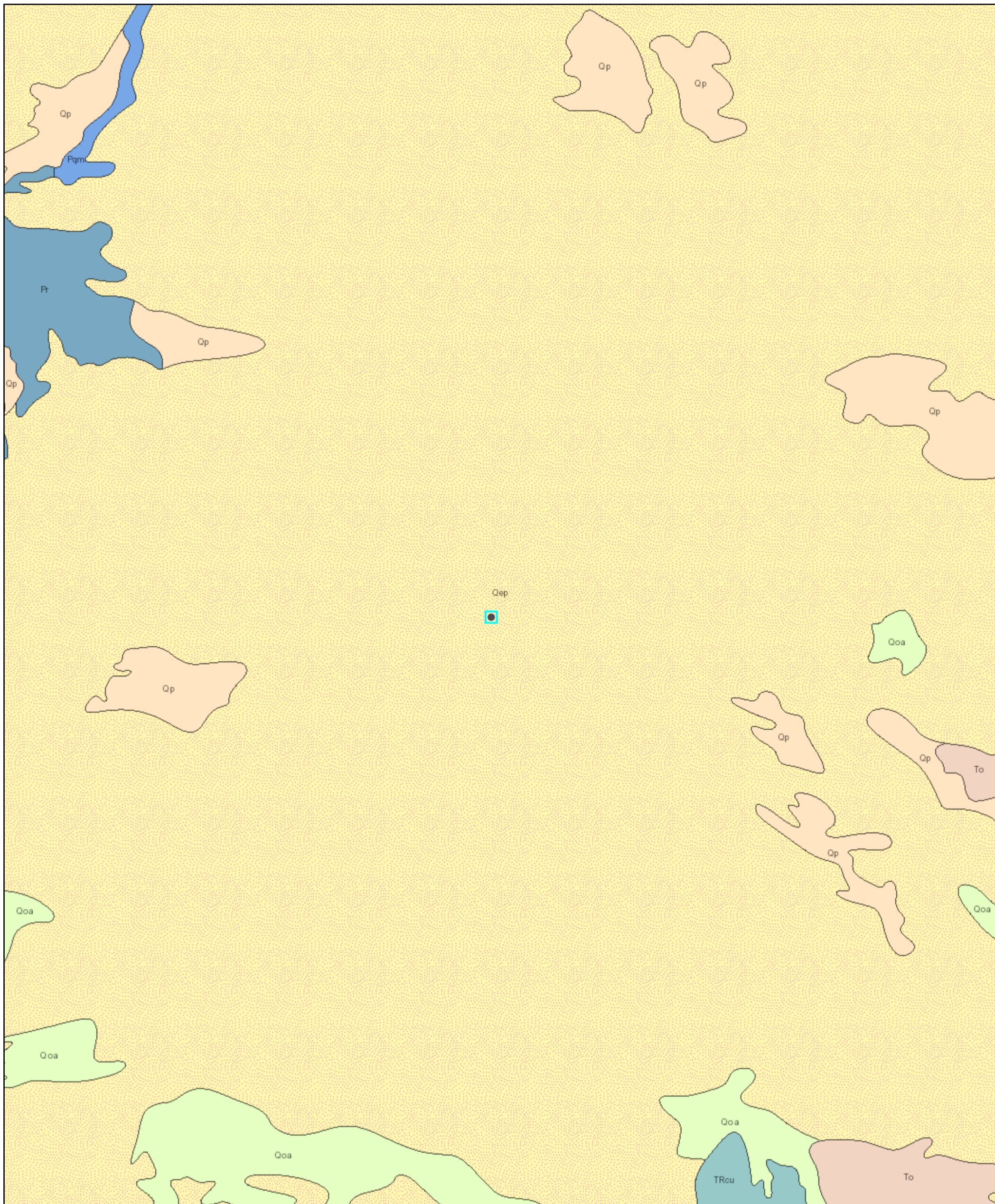
15. **Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production):**

---

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:**

---

# Geology

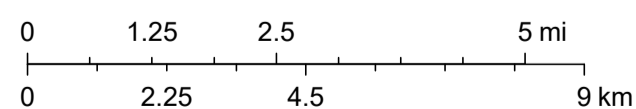


6/17/2023, 3:07:37 PM

### Lithologic Units

- Playa—Alluvium and evaporite deposits (Holocene)
- Water—Perennial standing water
- Qa—Alluvium (Holocene to upper Pleistocene)

1:144,448



Esri, NASA, NGA, USGS, NMBGMR, 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

## **APPENDIX C – Daily Field Reports with Photographs**



# Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	6/6/2024
Site Location Name:	Mesa Verde 6 Federal CTB	Report Run Date:	6/7/2024 12:06 AM
Client Contact Name:	Dale Woodall	API #:	
Client Contact Phone #:	405-318-4697		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

### Summary of Times

Arrived at Site	6/6/2024 8:10 AM
Departed Site	6/6/2024 3:58 PM

### Field Notes

- 8:06** Arrived on site. Completed safety paperwork and initial line locate.
- 8:53** On site to delineate the access road along the western edge of the pad. Swept the area with the magnetic line locator prior to ground disturbance. There are buried power lines and pipelines that have been flagged in the sampling area and will be avoided.
- 15:41** Collected samples BH24-01 through BH24-16 at 0' bgs. All samples were tested for chlorides using an EC meter and silver nitrate titration.
- 15:42** Samples BH24-06 and BH24-10 exceeded criteria for chlorides at 0' bgs. The rest of the samples met strictest criteria for chlorides.

### Next Steps & Recommendations

1



# Daily Site Visit Report

## Site Photos

**Viewing Direction: South**



Descriptive Photo - 1  
Viewing Direction: South  
Desc: Southern sampling area with buried pipelines and power lines.  
Created: 6/6/2024 8:55:12 AM  
Lat:32.244472, Long:-103.711987

Southern sampling area on the access road with buried pipelines and power lines.

**Viewing Direction: North**



Descriptive Photo - 2  
Viewing Direction: North  
Desc: Northern sampling area prior to ground disturbance.  
Created: 6/6/2024 8:55:58 AM  
Lat:32.244442, Long:-103.711970

Northern sampling area prior to ground disturbance.

**Viewing Direction: West**



Descriptive Photo - 3  
Viewing Direction: West  
Desc: BH24-01 at 0' bgs  
Created: 6/6/2024 2:45:13 PM  
Lat:32.244474, Long:-103.712082

BH24-01 at 0' bgs.

**Viewing Direction: East**

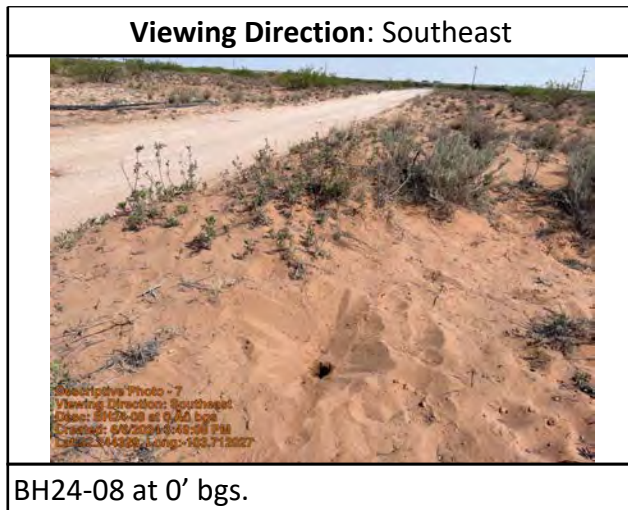
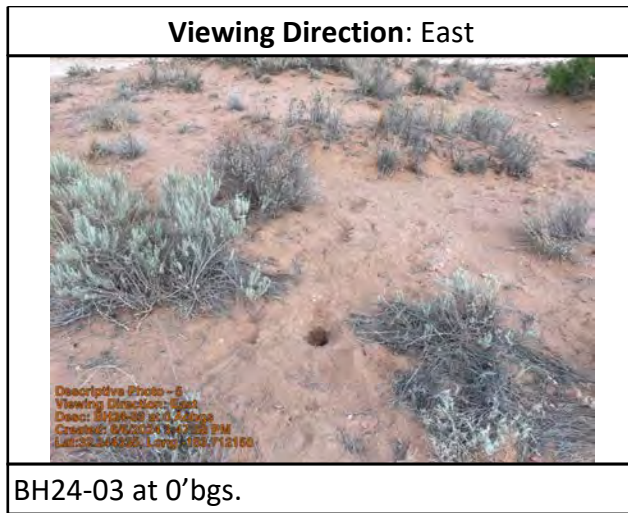


Descriptive Photo - 4  
Viewing Direction: East  
Desc: BH24-02 at 0' bgs  
Created: 6/6/2024 2:45:43 PM  
Lat:32.244531, Long:-103.712082

BH24-02 at 0' bgs.

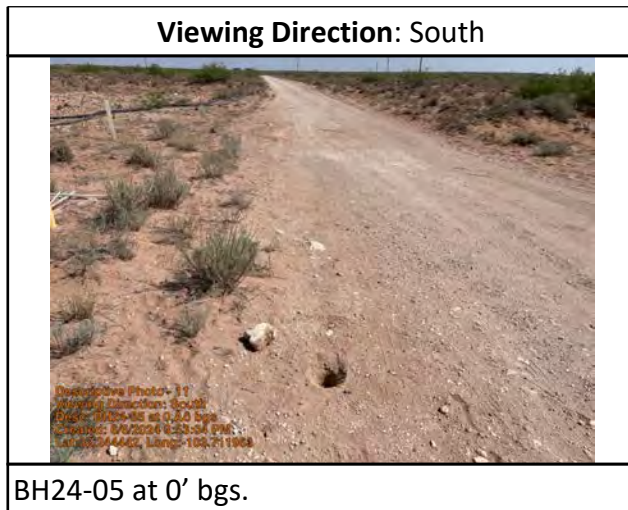


# Daily Site Visit Report






# Daily Site Visit Report





# Daily Site Visit Report


**Viewing Direction: East**



Descriptive Photo - 13  
Viewing Direction: East  
Date: 8/6/2024 at 3:24:06 PM  
Created: 8/6/2024 3:24:06 PM  
Lat:32.264834, Long:-103.711815

BH24-06 at 0' bgs. Sample exceeded criteria in field screen.

**Viewing Direction: North**



Descriptive Photo - 14  
Viewing Direction: North  
Date: 8/6/2024 through BH24-16 at 0, A0 bgs  
Created: 8/6/2024 3:28:04 PM  
Lat:32.264834, Long:-103.711815

BH24-12 through BH24-16 at 0' bgs.

# Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** John Rewis

**Signature:**

Signature 



# Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	6/7/2024
Site Location Name:	Mesa Verde 6 Federal CTB	Report Run Date:	6/8/2024 10:27 PM
Client Contact Name:	Dale Woodall	API #:	
Client Contact Phone #:	405-318-4697	Project Owner:	
Unique Project ID		Project Manager:	
Project Reference #			

## Summary of Times

Arrived at Site	6/7/2024 7:00 AM
Departed Site	6/7/2024 5:05 PM

## Field Notes

- 18:55** Arrived on site and completed safety paperwork and initial line locate.
- 18:57** Tasked with continuing delineation at the site and gathering vertical samples. The magnetic line sweeper was used prior to ground disturbance.
- 19:01** Collected samples BH24-01 through BH24-16 at depths of 2' and 4' bgs. Resampled BH24-06 and BH24-09 at 0' bgs due to the samples collected on 6-6-24 exceeding criteria. In total 34 samples were collected at the site today.
- 19:01** All samples were field screened for chlorides using an electrical conductivity meter and silver nitrate titration. 8 samples were screened for TPH using a petroflag. All samples met strictest criteria for both chlorides and TPH.
- 19:02** All 34 samples were jarred and prepped to be sent to Eurofins laboratory.

## Next Steps & Recommendations

- 1** Send samples to the lab.



# Daily Site Visit Report

## Site Photos

Viewing Direction: North



*Descriptive Photo - 1  
Viewing Direction: North  
Date: 6/7/2024 8:01 AM Samples taken at 2' and 4'  
Created: 6/7/2024 8:01 AM  
Lat: 32.244281, Long: -103.712084*

BH24-04 at 4' bgs. Samples taken at 2' and 4'.

Viewing Direction: Northeast



*Descriptive Photo - 2  
Viewing Direction: Northeast  
Date: 6/7/2024 8:01 AM Samples taken at 2' and 4'  
Created: 6/7/2024 8:01 AM  
Lat: 32.244281, Long: -103.712084*

BH24-07 at 4' bgs. Samples taken at 2' and 4'.

Viewing Direction: Northeast



*Descriptive Photo - 3  
Viewing Direction: Northeast  
Date: 6/7/2024 8:01 AM Samples taken at 2' and 4'  
Created: 6/7/2024 8:01 AM  
Lat: 32.244281, Long: -103.712084*

BH24-08 at 4' bgs. Samples taken at 2' and 4' bgs.

Viewing Direction: Northeast



*Descriptive Photo - 4  
Viewing Direction: Northeast  
Date: 6/7/2024 8:01 AM Samples taken at 2' and 4'  
Created: 6/7/2024 8:01 AM  
Lat: 32.244281, Long: -103.712084*

BH24-03 at 4' bgs. Samples taken at 2' and 4' bgs.



# Daily Site Visit Report

Viewing Direction: North



Descriptive Photo - 6  
Viewing Direction: North  
Date: 8/7/2024 11:46:38 AM  
Created: 8/7/2024 11:46:38 AM  
Lat: 32.546267, Long: -103.711210

BH24-11 at 4' bgs. Samples taken at 2' and 4'.

Viewing Direction: Southeast



Descriptive Photo - 5  
Viewing Direction: Southeast  
Date: 8/7/2024 11:46:38 AM  
Created: 8/7/2024 11:46:38 AM  
Lat: 32.546267, Long: -103.711210

BH24-02 at 4' bgs. Samples taken 2' and 4' bgs.

Viewing Direction: North



Descriptive Photo - 7  
Viewing Direction: North  
Date: 8/7/2024 11:46:38 AM  
Created: 8/7/2024 11:46:38 AM  
Lat: 32.546267, Long: -103.711210

BH24-01 at 4' bgs. Samples taken at 2' and 4' bgs.

Viewing Direction: East



Descriptive Photo - 8  
Viewing Direction: East  
Date: 8/7/2024 11:46:38 AM  
Created: 8/7/2024 11:46:38 AM  
Lat: 32.546267, Long: -103.711210

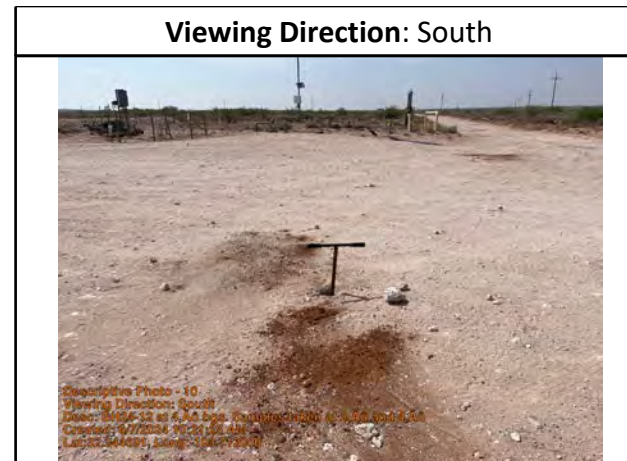
BH24-05 at 4' bgs. Samples taken at 2' and 4' bgs.



# Daily Site Visit Report



BH24-10 at 4' bgs. Samples taken at 2' and 4' bgs.



BH24-12 at 4' bgs. Samples taken at 2' and 4' bgs.



BH24-15 at 4' bgs. Samples taken at 2' and 4' bgs.



BH24-14 at 4' bgs. Sample's taken at 2' and 4' bgs.



# Daily Site Visit Report

**Viewing Direction: East**

Descriptive Photo - 13  
Viewing Direction: East  
Desc: BH24-13 at 4.00 bgs. Samples taken at 2.00 and 4.00  
Created: 6/7/2024 10:52:53 AM  
Lat:32.244871, Long:-103.712092

BH24-13 at 4' bgs. Samples taken at 2' and 4' bgs.

**Viewing Direction: North**

Descriptive Photo - 16  
Viewing Direction: North  
Desc: BH24-16 at 4.00 bgs. Samples taken at 2.00 and 4.00  
Created: 6/7/2024 11:00:18 AM  
Lat:32.244844, Long:-103.712005

BH24-16 at 4' bgs. Samples taken at 2' and 4' bgs.

# Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** John Rewis

**Signature:**

A handwritten signature in black ink, appearing to be 'JR', written over a horizontal line. The word 'Signature' is faintly visible below the line.



# Daily Site Visit Report

Client:	Devon Energy Corporation	Incident ID #:	
Site Location Name:	Mesa Verde 6 Federal CTB	API #:	
Inspection Date:	5/9/2025		

## Summary of Times

Arrived at Site	5/9/2025 9:00 AM
Departed Site	5/9/2025 11:20 AM

# Daily Site Visit Report



Site Sketch

Site Sketch

## Daily Site Visit Report



### Field Notes

- 9:38** Arrived on site at 09:00 and completed safety documentation. Assessed site for sampling.
- 11:15** Collected discrete borehole sample stepped out south from BH24-16 to delineate.
- 11:16** Field screened samples (BH25-17 at 0 and 2 feet) for hydrocarbons and chlorides.  
Sample results were below criteria limits.
- 11:16** Prepared sample for lab analysis per standards.

### Next Steps & Recommendations

- 1** Excavation of hydrocarbons



# Daily Site Visit Report

## Site Photos

Viewing Direction: North



Descriptive Photo: 1  
Viewing Direction: North  
Date: 5/12/2025 11:00:00 AM  
Created: 5/12/2025 9:33:42 AM  
Lat: 32.244554, Long: -103.711207

BH25-17 at 0 and 2 feet

Viewing Direction: East



Descriptive Photo: 2  
Viewing Direction: East  
Date: Sample area delineated to south  
Created: 5/12/2025 11:11:33 AM  
Lat: 32.244554, Long: -103.711207

Sample area delineated to south

# Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Stephanie McCartyM

**Signature:**

A handwritten signature in black ink, appearing to read 'Steph M', written over a thin horizontal line. The word 'Signature' is printed in small text below the line.



# Daily Site Visit Report

Client:	Devon Energy Corporation	Incident ID #:	nAPP2105050332
Site Location Name:	Mesa Verde 6 Federal CTB	API #:	
Inspection Date:	5/15/2025		

### Summary of Times

Arrived at Site	5/15/2025 8:30 AM
Departed Site	5/15/2025 1:15 PM

### Field Notes

- 9:11** Arrived on site and conducted job safety analysis. Completed safety documents.
- 10:33** Collected 5 point composite samples at no more than 200 sq ft per sample, along road and in pasture.
- 13:05** Field screened samples for chlorides and hydrocarbons. All samples screened close to or below criteria limits.
- 13:05** Prepared samples for lab analysis per standards.

### Next Steps & Recommendations

- 1 Collect lab analytics



# Daily Site Visit Report

## Site Photos

Viewing Direction: East



Descriptive Photo - 1  
Viewing Direction: East  
Date: 5/15/25 at 9:02  
Location: 27.728349, -102.161168  
Lat: 27.728349, Long: -102.161168

BS25-01 at 0 ft

Viewing Direction: Northeast



Descriptive Photo - 2  
Viewing Direction: Northeast  
Date: 5/15/25 at 9:02  
Location: 27.728349, -102.161168  
Lat: 27.728349, Long: -102.161168

BS25-02 at 0 ft

Viewing Direction: Northeast



Descriptive Photo - 3  
Viewing Direction: Northeast  
Date: 5/15/25 at 9:02  
Location: 27.728349, -102.161168  
Lat: 27.728349, Long: -102.161168

BS25-03 at 0 ft

Viewing Direction: North

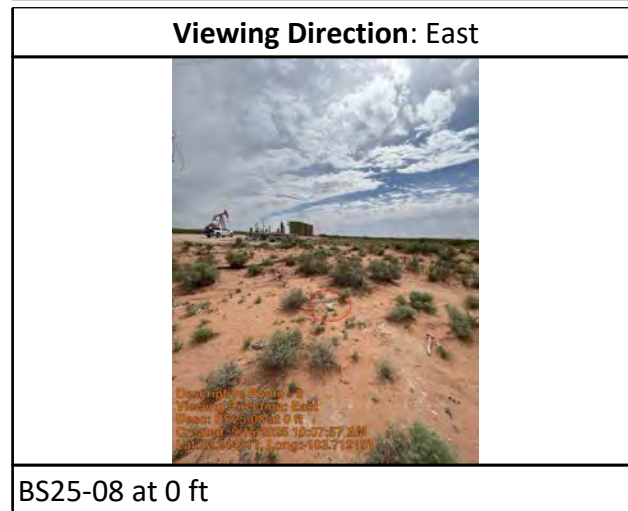
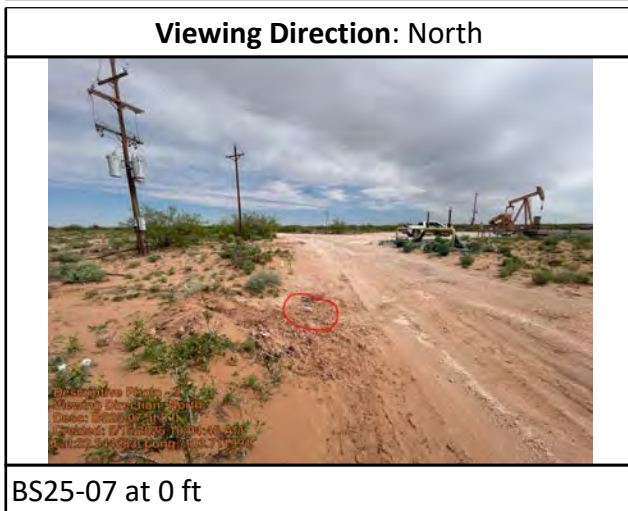
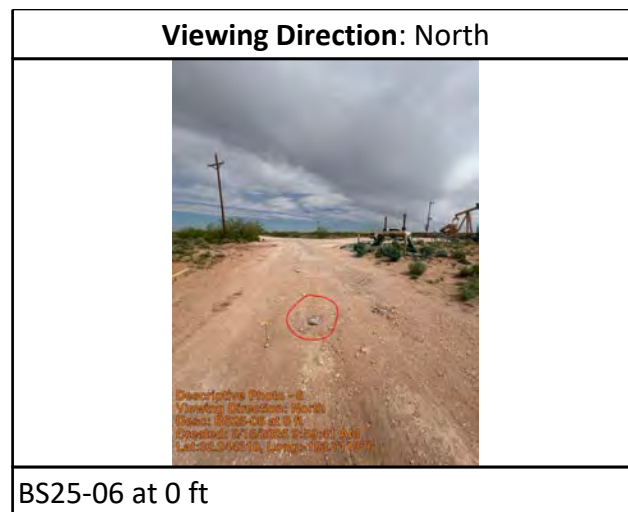
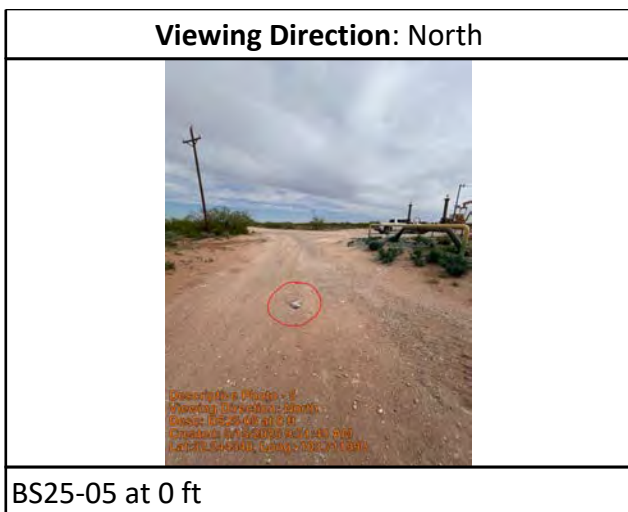


Descriptive Photo - 4  
Viewing Direction: North  
Date: 5/15/25 at 9:02  
Location: 27.728349, -102.161168  
Lat: 27.728349, Long: -102.161168

BS25-04 at 0 ft



# Daily Site Visit Report





# Daily Site Visit Report

**Viewing Direction: North**

BS25-09 at 0 ft

Description Photo - 09  
Viewing Direction: North  
Elev: BS25-09 at 0 ft  
Created: 5/15/2025 10:07:30 AM  
Lat: 32.44036, Long: -101.71571

**Viewing Direction: North**

BS25-10 at 0 ft

Description Photo - 10  
Viewing Direction: North  
Elev: BS25-10 at 0 ft  
Created: 5/15/2025 10:21:38 AM  
Lat: 32.44036, Long: -101.71571

**Viewing Direction: North**

BS25-11 at 0 ft

Description Photo - 11  
Viewing Direction: North  
Elev: BS25-11 at 0 ft  
Created: 5/15/2025 10:08:48 AM  
Lat: 32.44036, Long: -101.71571

**Viewing Direction: Southwest**

Entire sample area

Description Photo - 12  
Viewing Direction: Southwest  
Elev: Entire sample area  
Created: 5/15/2025 10:08:48 AM  
Lat: 32.44036, Long: -101.71571



# Daily Site Visit Report




# Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Stephanie McCartyM

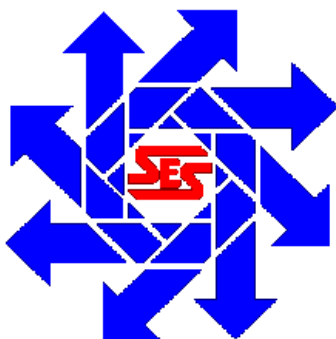
**Signature:** A handwritten signature in black ink, appearing to read 'Steph M', written over a thin horizontal line. The word 'Signature' is printed in small text below the line.

**APPENDIX D – Safety & Environmental Solutions, Inc. (SESI)  
Remediation Plan & Closure Report**

**Devon Energy Production Company  
Mesa Verde 6 Federal #2**

**Remediation Plan & Closure Report  
U/L J, Section 06, T24S, R32E  
Lea County, New Mexico  
NAPP2105050332**

**May 7, 2021**



**Prepared for:**

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

**By:**

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

## Company Contacts

Representative	Company	Telephone	E-mail
Amanda Davis	Devon Energy	575-748-0176	Amanda.Davis@dvn.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

## Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Devon Energy to perform a site assessment at the Mesa Verde 6 Federal #2 concerning a 367 bbls produced water leak on the south half of the location and into the pasture. According to the C-141, an over-pressured water vessel had a rupture causing the release. A vacuum truck was dispatched but was only able to recover around 5 bbs. This site is situated in Lea County, Section 06, Township 24S, and Range 32E.

SESI personnel performed an assessment of the site in January of 2021 based on generator knowledge of the leak location and visual evidence of the leak. SESI personnel mapped the leak and performed delineation.

## Surface and Ground Water

Based on the NMOCD Oil and Gas map included in this report, surface water, or remnants thereof, do not appear to be within 3000 feet of this release. The New Mexico Office of the State Engineer records indicates the average depth to groundwater for the area to be over 300' bgs; however, since no wells less than 25 years old and less than a half mile away are known to be present, SESI will delineate this release to the most stringent criteria established by NMOCD.

## Characterization

In January of 2021, SESI personnel performed sampling to determine vertical and horizontal extent of the release. SESI advanced twenty-eight auger holes in and around the release area. Twenty of the auger holes were to determine vertical extent and were obtained at the surface, 1 foot bgs, and 2 foot and 3 foot bgs on some of them. The other 8 samples were taken at the surface to establish horizontal extent. Sample locations are shown on the map included in this report. The samples were properly packaged and preserved and sent to Hall Environmental Laboratories for analyzation. The results of the testing are captured in the summary below:

Devon, Mesa Verde 6 Federal #2 Hall Environmental Labs: 1/5/21 to 1/7/21								
Sample ID	Chloride	DRO	MRO	GRO	Benzene	Toluene	Ethyl benzene	Total Xylenes
AH1 @ SURFACE	8200	7600	3300	750	ND	1.6	2.8	20
AH1 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND

AH2 @ SURFACE	<b>7800</b>	<b>97</b>	<b>72</b>	ND	ND	ND	ND	ND
AH2 @ 1'	<b>86</b>	ND	ND	ND	ND	ND	ND	ND
AH3 @ SURFACE	<b>5100</b>	<b>18</b>	ND	ND	ND	ND	ND	ND
AH3 @ 1'	<b>90</b>	ND	ND	ND	ND	ND	ND	ND
AH4 @ SURFACE	<b>6500</b>	<b>48</b>	ND	ND	ND	ND	ND	ND
AH4 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND
AH5 @ SURFACE	<b>7000</b>	<b>230</b>	<b>290</b>	ND	ND	ND	ND	ND
AH5 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND
AH6 @ SURFACE	<b>8100</b>	<b>120</b>	<b>99</b>	ND	ND	ND	ND	ND
AH6 @ 1'	<b>5100</b>	ND	ND	ND	ND	ND	ND	ND
AH6 @ 3'	<b>67</b>	ND	ND	ND	ND	ND	ND	ND
AH7 @ SURFACE	<b>5100</b>	<b>1500</b>	<b>630</b>	<b>140</b>	ND	<b>0.95</b>	<b>1.5</b>	<b>8</b>
AH7 @ 1'	<b>1900</b>	<b>10</b>	ND	ND	ND	ND	ND	ND
AH7 @ 2'	<b>69</b>	ND	ND	ND	ND	ND	ND	ND
AH8 @ SURFACE	<b>8700</b>	ND	ND	ND	ND	ND	ND	ND
AH8 @ 1'	<b>1300</b>	ND	ND	ND	ND	ND	ND	ND
AH8 @ 2'	ND	ND	ND	ND	ND	ND	ND	ND
AH9 @ SURFACE	<b>800</b>	ND	ND	ND	ND	ND	ND	ND
AH9 @ 1'	<b>780</b>	ND	ND	ND	ND	ND	ND	ND
AH9 @ 2'	ND	ND	ND	ND	ND	ND	ND	ND
AH10 @ SURFACE	<b>6800</b>	ND	ND	ND	ND	ND	ND	ND
AH10 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND
AH11 @ SURFACE	<b>6500</b>	<b>130</b>	<b>72</b>	<b>6.6</b>	ND	ND	ND	<b>0.21</b>
AH11 @ 1'	<b>510</b>	ND	ND	ND	ND	ND	ND	ND
AH11 @ 2'	<b>190</b>	ND	ND	ND	ND	ND	ND	ND
AH12 @ SURFACE	<b>3000</b>	ND	ND	ND	ND	ND	ND	ND
AH12 @ 1'	<b>960</b>	ND	ND	ND	ND	ND	ND	ND
AH12 @ 2'	ND	ND	ND	ND	ND	ND	ND	ND
AH13 @ SURFACE	<b>7600</b>	<b>120</b>	<b>63</b>	ND	ND	ND	ND	ND
AH13 @ 1'	<b>550</b>	ND	ND	ND	ND	ND	ND	ND
AH13 @ 2'	ND	ND	ND	ND	ND	ND	ND	ND
AH14 @ SURFACE	<b>5200</b>	ND	ND	ND	ND	ND	ND	ND
AH14 @ 1'	<b>960</b>	ND	ND	ND	ND	ND	ND	ND
AH14 @ 3'	ND	ND	ND	ND	ND	ND	ND	ND
AH15 @ SURFACE	<b>6000</b>	ND	ND	ND	ND	ND	ND	ND
AH15 @ 1'	<b>1300</b>	ND	ND	ND	ND	ND	ND	ND

AH15 @ 2'	<b>290</b>	ND	ND	ND	ND	ND	ND	ND
AH16 @ SURFACE	<b>4500</b>	ND	ND	ND	ND	ND	ND	ND
AH16 @ 1'	<b>1100</b>	ND	ND	ND	ND	ND	ND	ND
AH16 @ 2'	<b>310</b>	ND	ND	ND	ND	ND	ND	ND
AH17 @ SURFACE	<b>540</b>	ND	ND	ND	ND	ND	ND	ND
AH17 @ 1'	<b>1100</b>	ND	ND	ND	ND	ND	ND	ND
AH17 @ 2'	ND	ND	ND	ND	ND	ND	ND	ND
AH18 @ SURFACE	<b>15000</b>	<b>2300</b>	<b>1000</b>	<b>190</b>	ND	<b>1.4</b>	<b>1.7</b>	<b>9.6</b>
AH18 @ 1'	<b>9600</b>	<b>390</b>	<b>1100</b>	<b>29</b>	ND	<b>0.39</b>	ND	<b>0.97</b>
AH18 @ 3'	<b>9000</b>	ND	ND	ND	ND	ND	ND	ND
AH19 @ SURFACE	<b>3800</b>	<b>13000</b>	<b>5700</b>	<b>3800</b>	<b>8.5</b>	<b>83</b>	<b>32</b>	<b>140</b>
AH19 @ 1'	<b>5700</b>	ND	ND	ND	ND	ND	ND	ND
AH19 @ 2'	<b>210</b>	ND	ND	ND	ND	ND	ND	ND
AH20 @ SURFACE	<b>2100</b>	<b>23</b>	<b>120</b>	ND	ND	ND	ND	ND
AH20 @ 1'	<b>5500</b>	ND	ND	ND	ND	ND	ND	ND
AH20 @ 2'	<b>230</b>	ND	ND	ND	ND	ND	ND	ND
<b>HORIZONTAL SAMPLES</b>								
H-21 NORTH	ND	ND	ND	ND	ND	ND	ND	ND
H-22 NORTH	ND	ND	ND	ND	ND	ND	ND	ND
H-23 WEST	ND	ND	ND	ND	ND	ND	ND	ND
H-24 WEST	ND	ND	ND	ND	ND	ND	ND	ND
H-25 SOUTH	ND	ND	ND	ND	ND	ND	ND	ND
H-26 SOUTH	ND	ND	ND	ND	ND	ND	ND	ND
H-27 EAST	ND	ND	ND	ND	ND	ND	ND	ND
H-27 EAST	ND	ND	ND	ND	ND	ND	ND	ND

Based on these results, SESI determined that vertical and horizontal extent had been achieved, except at AH18. It was decided to proceed with remediation of the release and vertical extent at AH18 would be established during the remediation activities. Horizontal extent was fully accomplished.

## Remediation

A review of the sampling results revealed that extensive remediation would need to be performed. During the months of February and March of 2021, the contaminated soil in the areas of AH1- AH5, AH10, AH11, and AH13 was removed to a depth of 1 foot. In the areas of AH6- AH9, AH12, AH14- AH20, the contaminated soil was removed to a depth of 2 feet or until all contaminated material was excavated in accordance with the closure criteria established by NMOCD. Approximately 1500 cubic yards of contaminated material were removed via shovel, loader, hydrovac, and backhoe. The contaminated soil was disposed of in a NMOCD-approved landfill.

Upon excavation completion, thirty-four confirmation samples were taken to ensure successful remediation efforts had been completed. The sample locations are outlined on the map included in this report. The samples were properly preserved and packaged then sent to Hall Laboratories for analyzation. The results of the sampling are captured in the table below.

Devon, Mesa Verde 6 Federal #2 CONFIRMATION SAMPLES								
Hall Environmental Labs: 2/10/21-2/17/21								
Sample ID	Chloride	DRO	MRO	GRO	Benzene	Toluene	Ethyl benzene	Total Xylenes
SP1 @ 2.5' BTM	260	11	ND	ND	ND	ND	ND	ND
SP2 @ 2' BTM	ND	ND	ND	ND	ND	ND	ND	ND
SP3 @ 2' BTM	ND	ND	ND	ND	ND	ND	ND	ND
SP4 @ 2' BTM	ND	ND	ND	ND	ND	ND	ND	ND
SP5 @ 2' BTM	260	20	ND	ND	ND	ND	ND	ND
SP6 @ 2' BTM	71	ND	ND	ND	ND	ND	ND	ND
SP7 @ 2' BTM	73	12	ND	ND	ND	ND	ND	ND
SP8 @ 2' BTM	ND	ND	ND	ND	ND	ND	ND	ND
SP9 @ 2 BTM	ND	ND	ND	ND	ND	ND	ND	ND
SP10 @ 2' BTM	ND	ND	ND	ND	ND	ND	ND	ND
SP11 @ 2' BTM	ND	ND	ND	ND	ND	ND	ND	ND
SP12 @ 2' BTM	ND	ND	ND	ND	ND	ND	ND	ND
SP13 @ W WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP14 @ S WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP15 @ S WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP16 @ S WALL	87	ND	ND	ND	ND	ND	ND	ND
SP17 @ E WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP18 @ 1' BTM	250	ND	ND	ND	ND	ND	ND	ND
SP19 @ 2' BTM	250	12	ND	ND	ND	ND	ND	ND
SP20 @ 2' BTM	ND	ND	ND	ND	ND	ND	ND	ND
SP21 @ 2' BTM	ND	ND	ND	ND	ND	ND	ND	ND
SP22 @ 2' BTM	ND	ND	ND	ND	ND	ND	ND	ND
SP23 @ 2' BTM	81	ND	ND	ND	ND	ND	ND	ND
SP24 @ 2' BTM	ND	ND	ND	ND	ND	ND	ND	ND
SP25 @ W WALL	71	ND	ND	ND	ND	ND	ND	ND
SP26 @ W WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP27 @ 1' BTM	90	ND	ND	ND	ND	ND	ND	ND
SP28 @ 1' BTM	88	ND	ND	ND	ND	ND	ND	ND
SP29 @ 1' BTM	88	ND	ND	ND	ND	ND	ND	ND
SP30 @ 1' BTM	89	ND	ND	ND	ND	ND	ND	ND
SP31 @ 1' BTM	92	ND	ND	ND	ND	ND	ND	ND
SP32 @ E WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP33 @ N WALL	75	ND	ND	ND	ND	ND	ND	ND
SP34 @ N WALL	85	ND	ND	ND	ND	ND	ND	ND

Once sample results verified successful remediation had been achieved, the site was backfilled with clean soil. Pictures of the remediation are included in this report.

## **Closure Request**

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

## **Supplemental Documentation for Closure**

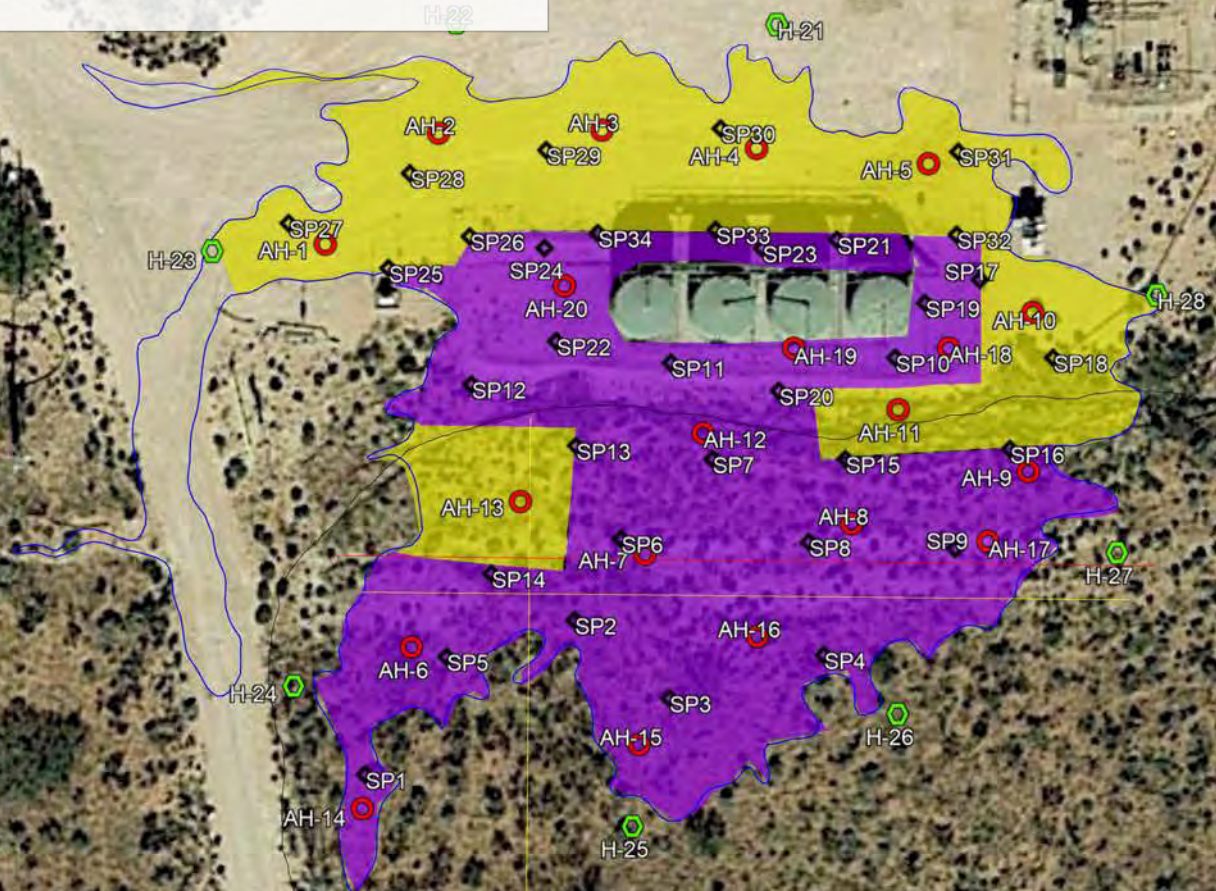
Map of Release with sample locations  
Photos of remediation  
NMOCD Oil and Gas Map  
BLM Cave Karst Map  
Arch Survey Results  
FEMA Floodplain Map  
Laboratory Analysis  
C-141, pages 3-6

# Devon, Mesa Verde 6 Fed 2 Battery

napp2105050332

**Legend**

- 1' Excavation
- 2' Excavation
- Confirmation samples
- Flow line
- Horizontal extent samples
- Line
- Line
- Spill area (blue)
- Vertical extent samples









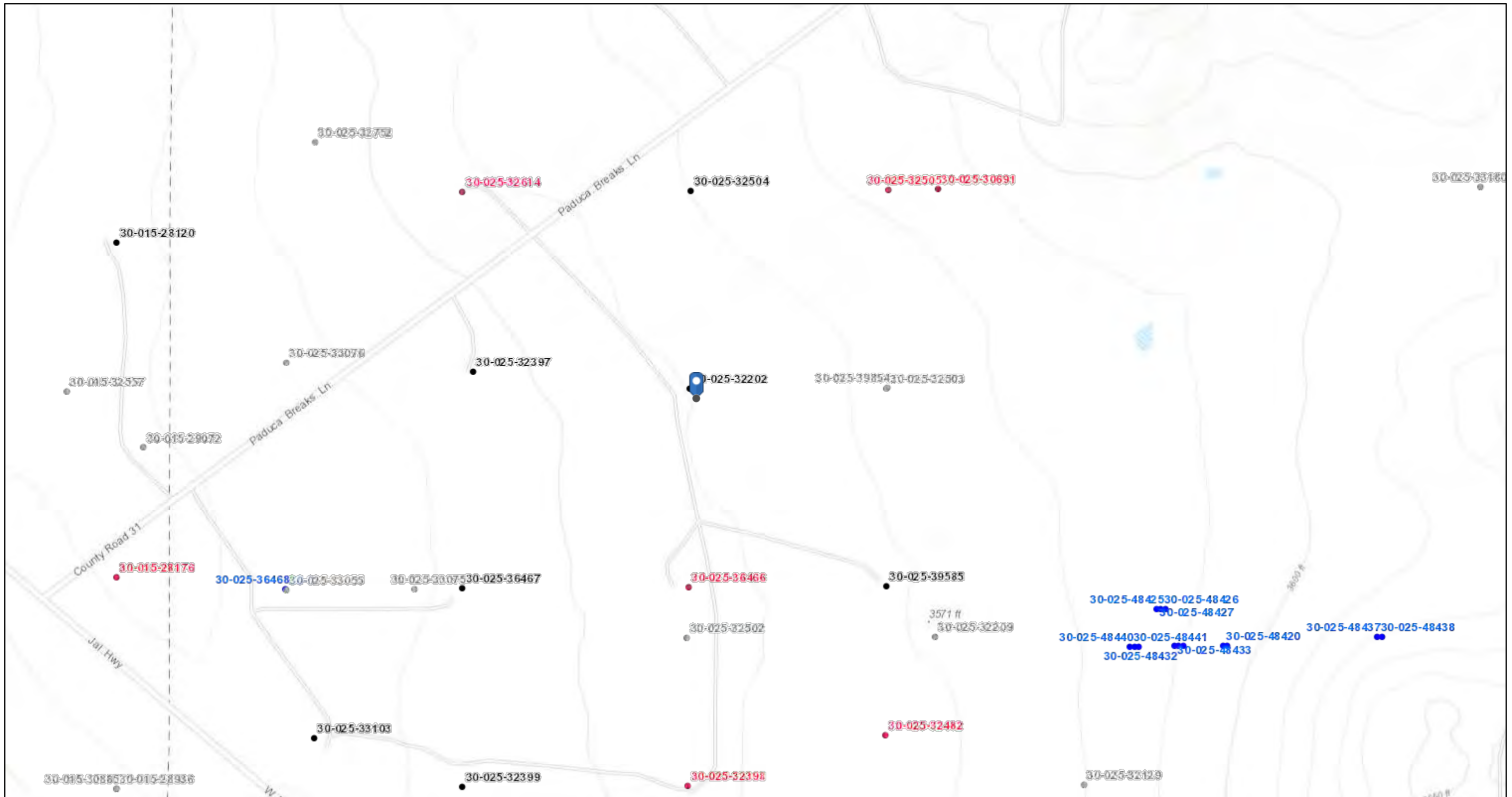






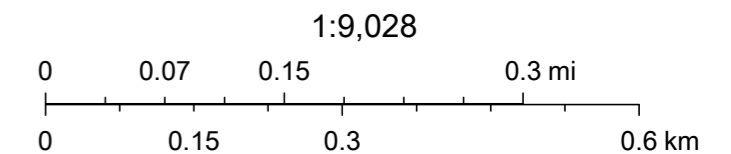


# Devon, Mesa Verde 6 Federal #2



5/7/2021, 8:14:08 AM

- |                     |                               |                                    |   |                                 |
|---------------------|-------------------------------|------------------------------------|---|---------------------------------|
| Wells - Large Scale | ☀️ CO2, Temporarily Abandoned | 🚰 Injection, Cancelled             | ● Oil, Plugged                                | ⬆️ Water, Active                |
| ⚪ undefined         | ⚙️ Gas, Active                | 🚰 Injection, New                   | ● Oil, Temporarily Abandoned                  | ⬆️ Water, Cancelled             |
| ⚪ Miscellaneous     | ⚙️ Gas, Cancelled             | 🚰 Injection, Plugged               | ⚪ Salt Water Injection, Active                | ⬆️ Water, New                   |
| ☀️ CO2, Active      | ⚙️ Gas, New                   | 🚰 Injection, Temporarily Abandoned | ⚪ Salt Water Injection, Cancelled             | ⬆️ Water, Plugged               |
| ☀️ CO2, Cancelled   | ☀️ Gas, Plugged               | ● Oil, Active                      | ⚪ Salt Water Injection, New                   | ⬆️ Water, Temporarily Abandoned |
| ☀️ CO2, New         | ☀️ Gas, Temporarily Abandoned | ⚪ Oil, Cancelled                   | ⚪ Salt Water Injection, Plugged               | ★ OCD District Offices          |
| ☀️ CO2, Plugged     | 🚰 Injection, Active           | ● Oil, New                         | ⚪ Salt Water Injection, Temporarily Abandoned |                                 |




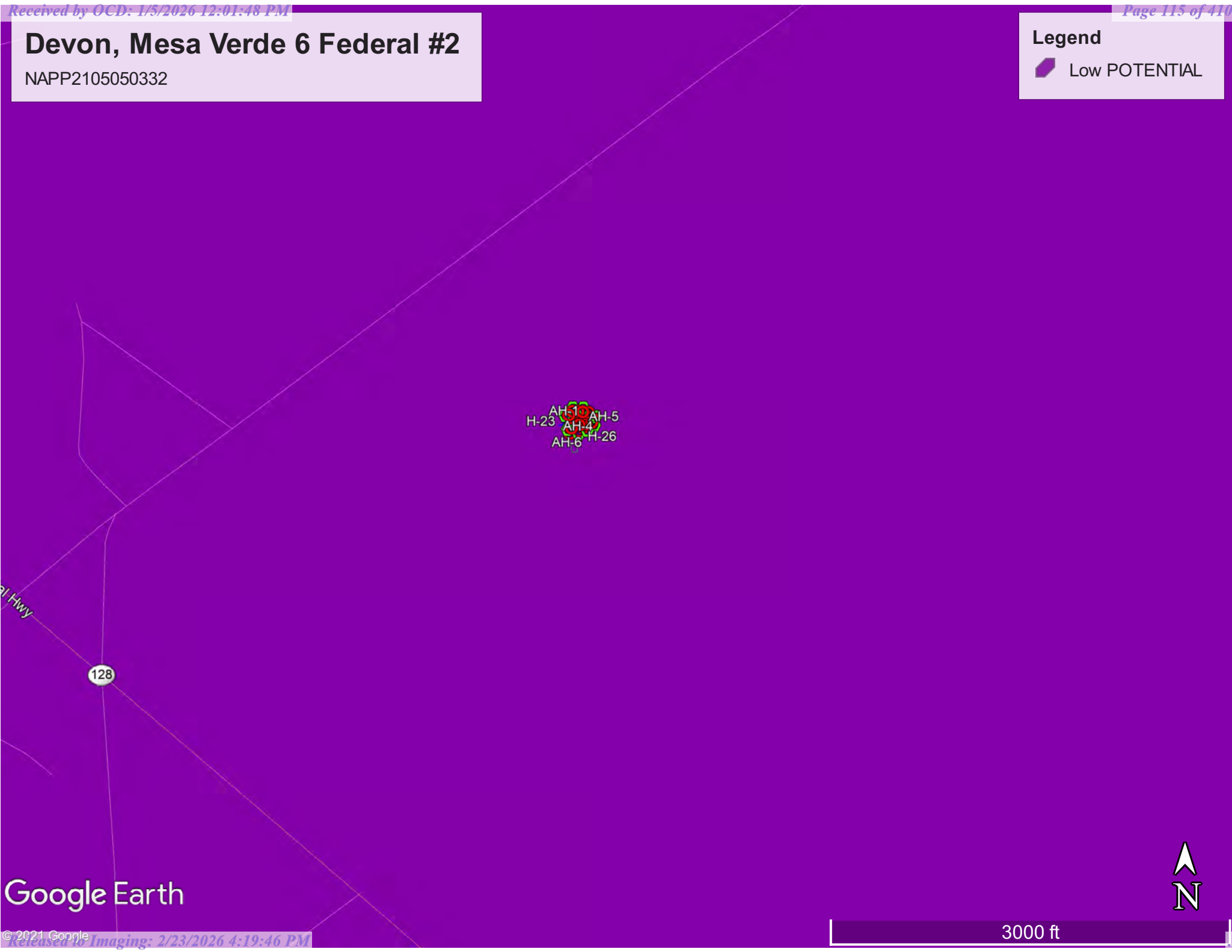
Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., OCD

# Devon, Mesa Verde 6 Federal #2

NAPP2105050332

**Legend**

-  Low POTENTIAL



Google Earth



NMCRIS No.: 147233

## NMCRIS INVESTIGATION ABSTRACT FORM (NIAF)

<b>1. NMCRIS Activity No.:</b>  147233	<b>2a. Lead Agency:</b> US Bureau of Land Management Carlsbad Field Office	<b>2b. Other Agency(ies):</b>	<b>3. Lead Agency Report No.:</b>
--	---	-------------------------------	-----------------------------------

<b>4. Title of Report:</b> A Class III Archaeological Survey for the Devon Mesa Verde 6 Fed 2 Battery Produced Water Release, Lea County, New Mexico  <b>Author(s)</b> Galassini, Stacy K. and Joshua W. Broxson	<b>5. Type of Report</b> <input checked="" type="checkbox"/> Negative  <input type="checkbox"/> Positive
--	---

**6. Investigation Type**

Research Design   
  Archaeological Survey/Inventory   
  Architectural Survey/Inventory   
  Test Excavation   
  Excavation  
 Collections/Non-Field Study   
  Compliance Decision Based on Previous Inventory   
  Overview/Lit Review   
  Monitoring  
 Ethnographic Study   
  Site/Property Specific Visit   
  Historic Structures Report   
  Other

**7. Description of Undertaking (what does the project entail?):**

A pedestrian cultural resources survey was conducted at the request of Safety and Environmental Solutions, Inc. for a produced water release on federal land in Section 6 of T24S R32E. The release extends south from the Devon Mesa Verde 6 Fed 2 Battery and totals 0.64 acres.

[    ] Continuation

<b>8. Dates of Investigation:</b> from: 04-Jan-2021    to: 04-Jan-2021	<b>9. Report Date:</b> 15-Jan-2021
--	------------------------------------

**10. Performing Agency/Consultant:** Boone Archaeological Resource Consultants, LLC.

**Principal Investigator:** Stacy K. Galassini

**Field Supervisor:** Erick Martinez

**Field Personnel Names:** Dane Womble

**Historian / Other:**

**11. Performing Agency/Consultant Report No.:**  
BARC 01-21-02

**12. Applicable Cultural Resource Permit No(s):**  
BLM Permit No.: 190-2920-20-AA

**NMCRIS No.: 147233**

**13. Client/Customer (project proponent):**

Safety and Environmental Solutions, Inc.

**Contact:** Kathy Purvis

**Address:**

**Phone:** 575-397-0510

**14. Client/Customer Project No.:**

**15. Land Ownership Status (must be indicated on project map):**

Land Owner (By Agency)	Acres Surveyed	Acres in APE
US Bureau of Land Management Carlsbad Field Office	1.12	1.12
<b>TOTALS</b>	1.12	1.12

**16. Records Search(es):**

Date(s) of HPD/ARMS File Review: 12 Jan 21	Name of Reviewer(s): S.K. Galassini	
Date(s) of Other Agency File Review: 12 Jan 21	Name of Reviewer(s): S.K. Galassini	Agency: BLM/CFO

**17. Survey Data:**

**a. Source Graphics** [ ] NAD 27 [  ] NAD 83 **Note: NAD 83 is the NMCRIS standard.**

USGS 7.5' (1:24,000) topo map  Other topo map, Scale:

GPS Unit Accuracy  <1.0m  1-10m  10-100m  >100m  Aerial Photo(s)

**Other Source Graphic(s):**

**b. USGS 7.5' Topographic Map Name**

**USGS Quad Code**

Paduca Breaks NW, NM	32103-B6
----------------------	----------

**c. County(ies):** LEA

**d. Nearest City or Town:** Loving, NM

**e. Legal Description:**

**Township (N/S)**                      **Range (E/W)**                      **Section**

24S	32E	6
-----	-----	---

**Projected legal description?** [ ] Yes [  ] No [ ] Unplatted

**f. Other Description (e.g. well pad footages, mile markers, plats, land grant name, etc.):**

[ ] Continuation

**18. Survey Field Methods:**

**Intensity:**  100% coverage  <100% coverage

**NMCRIS No.: 147233**

**Configuration:**  block survey units  linear survey units (l x w):  
 other survey units (specify):

**Scope:**  non-selective (all sites/properties recorded)  selective/thematic (selected sites/properties recorded)

**Coverage Method:**  systematic pedestrian coverage  
 other method (describe):

**Survey Interval (m):** 15 **Crew Size:** 2 **Fieldwork Dates:** from: 04-Jan-2021 to: 04-Jan-2021

**Survey Person Hours:** 0.50 **Recording Person Hours:** 0.00 **Total Hours:** 0.50

**Additional Narrative:**

Those portions of the release which extended beyond the battery and previous survey were surveyed using 50 ft. parallel transects across an irregular block area providing at least 100 ft. of clearance. The survey area totals 1.12 acres. There is one previously recorded cultural resource within ¼ mile of the release area, LA 110831.

[ ] Continuation

**19. Environmental Setting (NRCS soil designation; vegetative community; elevation; etc.):**

According to the Natural Resources Conservation Service' online database, the release area soils consist of Pyote soils. These soils are associated with the Loamy Sand ecological site (R042XC003NM) which typically supports black grama, dropseed, and bluestem grasslands with an even distribution of sand sage, shinnery oak, and mesquite. The current vegetative community consists of mesquite, broom snakeweed, shinnery oak, sage, and desert forbs and grasses. The survey area falls on a flat scrubland. The elevation ranges from 3,550 ft. to 3,560 ft. above mean sea level.

[ ] Continuation

**20.a. Percent Ground Visibility:** 51%-75% **b. Condition of Survey Area (grazed, bladed, undistributed, etc.):**

The survey area has been affected by a buried pipeline, tank battery, lease road, electric line, flowline, produced water spill, burrowing, cattle grazing, and erosion.

[ ] Continuation

**21. CULTURAL RESOURCE FINDINGS**  Yes, see next report section  No, discuss why:

No cultural resources were updated or recorded during the survey. The lack of cultural materials is due to the small survey area and level of disturbance.

[ ] Continuation

**22. Attachments (check all appropriate boxes):**

- USGS 7.5 Topographic Map with sites, isolates, and survey area clearly drawn (required)
- Copy of NMCRIS Map Check (required)
- LA Site Forms - new sites (with sketch map & topographic map) if applicable
- LA Site Forms (update) - previously recorded & un-relocated sites (first 2 pages minimum)
- Historic Cultural Property Inventory Forms, if applicable
- List and Description of Isolates, if applicable
- List and Description of Collections, if applicable

**23. Other Attachments:**

[ ] Photographs and Log

[ x ] Other Attachments  
(Describe): Pre-field Form

**NMCRIS No.: 147233**

24. I certify the information provided above is correct and accurate and meets all applicable agency standards.

Principal Investigator/Qualified Supervisor: Printed Name: Stacy K. Galassini

Signature: Stacy K. Galassini Date: 1/15/21 Title: Principal Investigator

<p>25. Reviewing Agency</p> <p>Reviewer's Name/Date:</p> <p>Accepted [    ]                      Rejected [    ]</p>	<p>26. SHPO</p> <p>Reviewer's Name/Date:</p> <p>HPD Log #:</p> <p>Date sent to ARMS:</p>
--	--

**CULTURAL RESOURCE FINDINGS**

*[fill in appropriate section(s)]*

**SURVEY RESULTS:**

Archaeological Sites discovered and registered: 0

Archaeological Sites discovered and NOT registered: 0

Previously recorded archaeological sites revisited (site update form required): 0

Previously recorded archaeological sites not relocated (site update form required): 0

TOTAL ARCHAEOLOGICAL SITES (visited & recorded): 0

Total isolates recorded: 0

Non-selective isolate recording?

HCPI properties discovered and registered: 0

HCPI properties discovered and NOT registered: 0

Previously recorded HCPI properties revisited: 0

Previously recorded HCPI properties not relocated: 0

TOTAL HCPI PROPERTIES (visited & recorded, including acequias): 0

**MANAGEMENT SUMMARY:**

No cultural resources were updated or recorded during the survey. Completion of the release remediation will result in no effect to cultural resources which are eligible for listing to the NRHP. The release remediation is recommended for approval. If cultural materials are encountered during the remediation process, work should be halted and archaeologists with the BLM/CFO should be notified immediately.

[    ] Continuation

**IF REPORT IS NEGATIVE, YOU ARE DONE AT THIS POINT.**

**SURVEY LA/HCPI NUMBER LOG**

Sites/Properties Discovered:

LA/HCPI No.	Field/Agency No.	Eligible? (Y/N/U, applicable criteria)
-------------	------------------	--

**NMCRIS No.: 147233**

Previously recorded revisited sites/HCPI properties:

LA/HCPI No.      Field/Agency No.      Eligible? (Y/N/U, applicable criteria)

---

**MONITORING LA NUMBER LOG (site form required)**

Sites Discovered (site form required):

Previously recorded sites (site update form required):

LA No.      Field/Agency No.

LA No.      Field/Agency No.

Areas outside known nearby site boundaries monitored?      [    ] Yes      [    ] No, Explain why:

---

**TESTING & EXCAVATION LA NUMBER LOG (site form required)**

Tested LA number(s)

Excavated LA number(s)



**Figure 1. Release Extending South from Battery, View Northwest**



Figure 2. Release Extending South Along Lease Road West of Battery, View North



Figure 3. Release Area, View Southeast

# A Class III Archaeological Survey for the Devon Mesa Verde 6 Fed 2 Battery Produced Water Release, Lea County, New Mexico

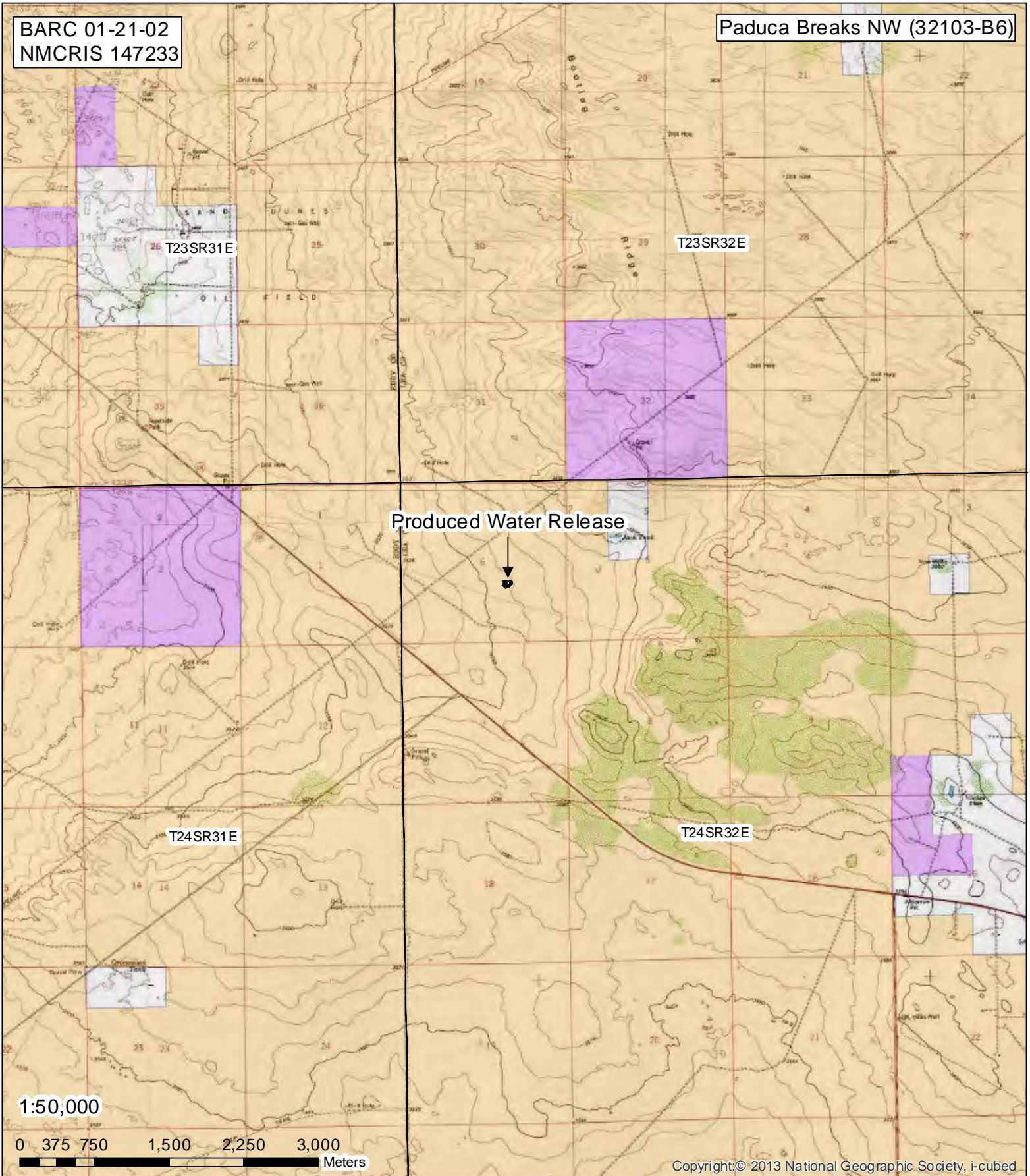
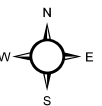


Figure 1. Release Area

Release
  BLM
  Private
  NM State



# A Class III Archaeological Survey for the Devon Mesa Verde 6 Fed 2 Battery Produced Water Release, Lea County, New Mexico

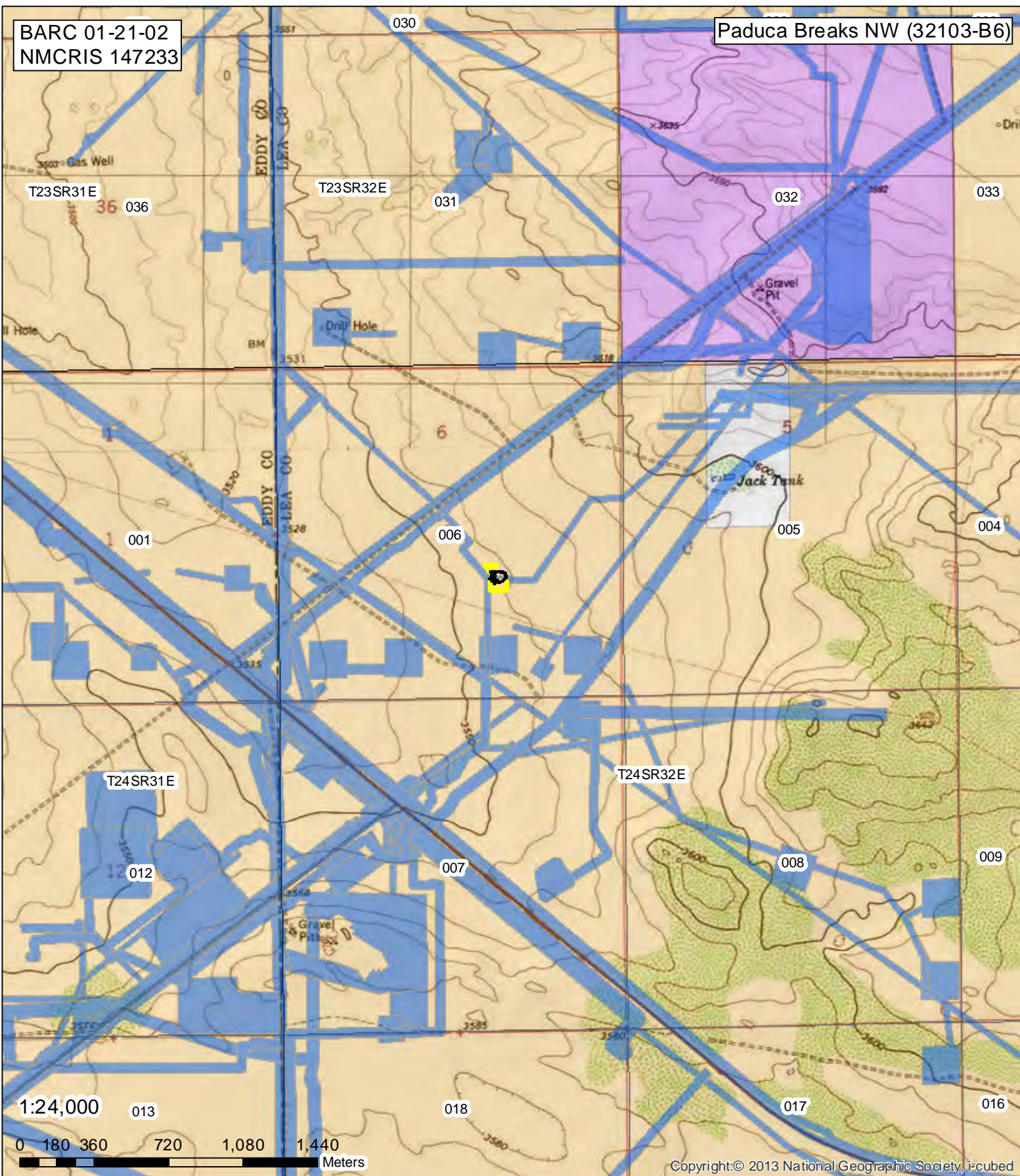
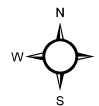


Figure 2. Current & Previous Survey

- Release
- Survey Area
- Previous Survey
- BLM
- Private
- NM State





**From:** [Morgan, Crisha A](#)  
**To:** [Bob Allen](#)  
**Cc:** [Sergio Contreras](#); [Kathy Purvis](#)  
**Subject:** Re: [EXTERNAL] Devon Mesa Verde 6 Fed 2 Battery Survey  
**Date:** Monday, January 18, 2021 10:34:54 AM  
**Attachments:** [image001.png](#)

---

Received!!

Please consider this my approval to proceed with the remediation process. Please send in the sundry notice for the additional disturbance area and the detailed C-141. If you have any questions or need any additional help, please let me know.

Have a great day!!

Crisha A. Morgan | Certified - Environmental Protection Specialist

Bureau of Land Management | Carlsbad Field Office

620 E. Greene Street Carlsbad, NM 88220

Cell 575-200-8648 | Office 575-234-5987 | [camorgan@blm.gov](mailto:camorgan@blm.gov)

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**From:** Bob Allen <[ballen@sesi-nm.com](mailto:ballen@sesi-nm.com)>  
**Sent:** Monday, January 18, 2021 10:11:50 AM  
**To:** Morgan, Crisha A <[camorgan@blm.gov](mailto:camorgan@blm.gov)>  
**Cc:** Sergio Contreras <[scontreras@sesi-nm.com](mailto:scontreras@sesi-nm.com)>; Kathy Purvis <[office2@sesi-nm.com](mailto:office2@sesi-nm.com)>  
**Subject:** [EXTERNAL] Devon Mesa Verde 6 Fed 2 Battery Survey

**This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.**

Crisha, here is the Boone report.

Bob Allen CSP, CHMM  
Office: (575) 397-0510  
Cell (575) 390-7063



# National Flood Hazard Layer FIRMette



103°43'W 32°14'55"N



## Legend

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

- |                                    |  |  |
|------------------------------------|--|--|
| <b>SPECIAL FLOOD HAZARD AREAS</b>  |  | Without Base Flood Elevation (BFE)<br><i>Zone A, V, A99</i>  |
|                                    |  | With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>   |
|                                    |  | Regulatory Floodway  |
| <b>OTHER AREAS OF FLOOD HAZARD</b> |  | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i> |
|                                    |  | Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>  |
|                                    |  | Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>  |
|                                    |  | Area with Flood Risk due to Levee <i>Zone D</i>  |
| <b>OTHER AREAS</b>                 |  | NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>   |
|                                    |  | Effective LOMRs  |
| <b>GENERAL STRUCTURES</b>          |  | Area of Undetermined Flood Hazard <i>Zone D</i>  |
|                                    |  | Channel, Culvert, or Storm Sewer   |
|                                    |  | Levee, Dike, or Floodwall  |
| <b>OTHER FEATURES</b>              |  | 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation  |
|                                    |  | 17.5 Water Surface Elevation   |
|                                    |  | Coastal Transect   |
|                                    |  | Base Flood Elevation Line (BFE)  |
|                                    |  | Limit of Study   |
|                                    |  | Jurisdiction Boundary  |
| <b>MAP PANELS</b>                  |  | Coastal Transect Baseline  |
|                                    |  | Profile Baseline   |
|                                    |  | Hydrographic Feature   |
|                                    |  | Digital Data Available   |
|                                    |  | No Digital Data Available  |
|                                    |  | Unmapped   |
- 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 5/7/2021 at 10:22 AM 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.

## APPENDIX E – Laboratory Data Reports with Chain of Custody



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

January 18, 2021

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

RE: Devon Mesa Verde 6 Fed 2

OrderNo.: 2101346

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 53 sample(s) on 1/9/2021 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white rectangular area.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH1 surface

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/5/2021 9:10:00 AM

**Lab ID:** 2101346-001

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	8200	300		mg/Kg	100	1/14/2021 2:39:01 PM	57529
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	750	49		mg/Kg	10	1/12/2021 10:50:33 AM	57439
Surr: BFB	117	70-130		%Rec	10	1/12/2021 10:50:33 AM	57439
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	7600	200		mg/Kg	20	1/12/2021 10:40:18 PM	57446
Motor Oil Range Organics (MRO)	3300	1000		mg/Kg	20	1/12/2021 10:40:18 PM	57446
Surr: DNOP	0	30.4-154	S	%Rec	20	1/12/2021 10:40:18 PM	57446
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.024		mg/Kg	1	1/12/2021 6:04:50 AM	57439
Toluene	1.6	0.049		mg/Kg	1	1/12/2021 6:04:50 AM	57439
Ethylbenzene	2.8	0.049		mg/Kg	1	1/12/2021 6:04:50 AM	57439
Xylenes, Total	20	0.98		mg/Kg	10	1/12/2021 10:50:33 AM	57439
Surr: 1,2-Dichloroethane-d4	117	70-130		%Rec	1	1/12/2021 6:04:50 AM	57439
Surr: Dibromofluoromethane	109	70-130		%Rec	1	1/12/2021 6:04:50 AM	57439
Surr: Toluene-d8	101	70-130		%Rec	1	1/12/2021 6:04:50 AM	57439

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-1 1ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/5/2021 9:15:00 AM

**Lab ID:** 2101346-002

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	1/14/2021 1:53:06 AM	57529
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/12/2021 11:47:52 AM	57439
Surr: BFB	103	70-130		%Rec	1	1/12/2021 11:47:52 AM	57439
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	1/12/2021 11:04:04 PM	57446
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/12/2021 11:04:04 PM	57446
Surr: DNOP	132	30.4-154		%Rec	1	1/12/2021 11:04:04 PM	57446
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.024		mg/Kg	1	1/12/2021 6:33:35 AM	57439
Toluene	ND	0.049		mg/Kg	1	1/12/2021 6:33:35 AM	57439
Ethylbenzene	ND	0.049		mg/Kg	1	1/12/2021 6:33:35 AM	57439
Xylenes, Total	ND	0.098		mg/Kg	1	1/12/2021 6:33:35 AM	57439
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	1/12/2021 6:33:35 AM	57439
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	1/12/2021 6:33:35 AM	57439
Surr: Dibromofluoromethane	114	70-130		%Rec	1	1/12/2021 6:33:35 AM	57439
Surr: Toluene-d8	97.5	70-130		%Rec	1	1/12/2021 6:33:35 AM	57439

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 2 surface

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/5/2021 9:25:00 AM

**Lab ID:** 2101346-003

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	7800	300		mg/Kg	100	1/14/2021 2:51:26 PM	57529
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/12/2021 7:02:05 AM	57439
Surr: BFB	103	70-130		%Rec	1	1/12/2021 7:02:05 AM	57439
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	97	9.4		mg/Kg	1	1/12/2021 11:27:57 PM	57446
Motor Oil Range Organics (MRO)	72	47		mg/Kg	1	1/12/2021 11:27:57 PM	57446
Surr: DNOP	127	30.4-154		%Rec	1	1/12/2021 11:27:57 PM	57446
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.024		mg/Kg	1	1/12/2021 7:02:05 AM	57439
Toluene	ND	0.049		mg/Kg	1	1/12/2021 7:02:05 AM	57439
Ethylbenzene	ND	0.049		mg/Kg	1	1/12/2021 7:02:05 AM	57439
Xylenes, Total	ND	0.098		mg/Kg	1	1/12/2021 7:02:05 AM	57439
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	1/12/2021 7:02:05 AM	57439
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	1/12/2021 7:02:05 AM	57439
Surr: Dibromofluoromethane	107	70-130		%Rec	1	1/12/2021 7:02:05 AM	57439
Surr: Toluene-d8	98.9	70-130		%Rec	1	1/12/2021 7:02:05 AM	57439

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 2 1ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/5/2021 9:50:00 AM

**Lab ID:** 2101346-004

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	86	60		mg/Kg	20	1/14/2021 2:17:56 AM	57529
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/12/2021 7:30:31 AM	57439
Surr: BFB	107	70-130		%Rec	1	1/12/2021 7:30:31 AM	57439
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	1/12/2021 11:51:43 PM	57446
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/12/2021 11:51:43 PM	57446
Surr: DNOP	140	30.4-154		%Rec	1	1/12/2021 11:51:43 PM	57446
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.024		mg/Kg	1	1/12/2021 7:30:31 AM	57439
Toluene	ND	0.049		mg/Kg	1	1/12/2021 7:30:31 AM	57439
Ethylbenzene	ND	0.049		mg/Kg	1	1/12/2021 7:30:31 AM	57439
Xylenes, Total	ND	0.098		mg/Kg	1	1/12/2021 7:30:31 AM	57439
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	1/12/2021 7:30:31 AM	57439
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	1/12/2021 7:30:31 AM	57439
Surr: Dibromofluoromethane	113	70-130		%Rec	1	1/12/2021 7:30:31 AM	57439
Surr: Toluene-d8	99.9	70-130		%Rec	1	1/12/2021 7:30:31 AM	57439

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 3 Surface

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/5/2021 9:55:00 AM

**Lab ID:** 2101346-005

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	5100	150		mg/Kg	50	1/14/2021 3:03:51 PM	57529
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/12/2021 7:59:08 AM	57439
Surr: BFB	103	70-130		%Rec	1	1/12/2021 7:59:08 AM	57439
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	18	9.2		mg/Kg	1	1/13/2021 12:15:45 AM	57446
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/13/2021 12:15:45 AM	57446
Surr: DNOP	117	30.4-154		%Rec	1	1/13/2021 12:15:45 AM	57446
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 7:59:08 AM	57439
Toluene	ND	0.049		mg/Kg	1	1/12/2021 7:59:08 AM	57439
Ethylbenzene	ND	0.049		mg/Kg	1	1/12/2021 7:59:08 AM	57439
Xylenes, Total	ND	0.098		mg/Kg	1	1/12/2021 7:59:08 AM	57439
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	1/12/2021 7:59:08 AM	57439
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	1/12/2021 7:59:08 AM	57439
Surr: Dibromofluoromethane	112	70-130		%Rec	1	1/12/2021 7:59:08 AM	57439
Surr: Toluene-d8	97.9	70-130		%Rec	1	1/12/2021 7:59:08 AM	57439

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 3 1ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/5/2021 10:20:00 AM

**Lab ID:** 2101346-006

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	90	61		mg/Kg	20	1/14/2021 2:42:45 AM	57529
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/12/2021 8:27:49 AM	57439
Surr: BFB	104	70-130		%Rec	1	1/12/2021 8:27:49 AM	57439
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	1/13/2021 12:39:34 AM	57446
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/13/2021 12:39:34 AM	57446
Surr: DNOP	118	30.4-154		%Rec	1	1/13/2021 12:39:34 AM	57446
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 8:27:49 AM	57439
Toluene	ND	0.049		mg/Kg	1	1/12/2021 8:27:49 AM	57439
Ethylbenzene	ND	0.049		mg/Kg	1	1/12/2021 8:27:49 AM	57439
Xylenes, Total	ND	0.098		mg/Kg	1	1/12/2021 8:27:49 AM	57439
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	1/12/2021 8:27:49 AM	57439
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	1/12/2021 8:27:49 AM	57439
Surr: Dibromofluoromethane	108	70-130		%Rec	1	1/12/2021 8:27:49 AM	57439
Surr: Toluene-d8	97.8	70-130		%Rec	1	1/12/2021 8:27:49 AM	57439

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 4 Surface

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/5/2021 10:25:00 AM

**Lab ID:** 2101346-007

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	6500	300		mg/Kg	100	1/14/2021 3:16:16 PM	57529
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2021 8:56:26 AM	57439
Surr: BFB	103	70-130		%Rec	1	1/12/2021 8:56:26 AM	57439
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	48	10		mg/Kg	1	1/13/2021 1:27:15 AM	57446
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/13/2021 1:27:15 AM	57446
Surr: DNOP	139	30.4-154		%Rec	1	1/13/2021 1:27:15 AM	57446
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 8:56:26 AM	57439
Toluene	ND	0.050		mg/Kg	1	1/12/2021 8:56:26 AM	57439
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2021 8:56:26 AM	57439
Xylenes, Total	ND	0.10		mg/Kg	1	1/12/2021 8:56:26 AM	57439
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	1/12/2021 8:56:26 AM	57439
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	1/12/2021 8:56:26 AM	57439
Surr: Dibromofluoromethane	110	70-130		%Rec	1	1/12/2021 8:56:26 AM	57439
Surr: Toluene-d8	96.9	70-130		%Rec	1	1/12/2021 8:56:26 AM	57439

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 4 1ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/5/2021 10:40:00 AM

**Lab ID:** 2101346-008

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	1/14/2021 3:32:23 AM	57529
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2021 9:25:00 AM	57439
Surr: BFB	107	70-130		%Rec	1	1/12/2021 9:25:00 AM	57439
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/13/2021 1:51:11 AM	57446
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/13/2021 1:51:11 AM	57446
Surr: DNOP	124	30.4-154		%Rec	1	1/13/2021 1:51:11 AM	57446
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 9:25:00 AM	57439
Toluene	ND	0.050		mg/Kg	1	1/12/2021 9:25:00 AM	57439
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2021 9:25:00 AM	57439
Xylenes, Total	ND	0.099		mg/Kg	1	1/12/2021 9:25:00 AM	57439
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	1/12/2021 9:25:00 AM	57439
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	1/12/2021 9:25:00 AM	57439
Surr: Dibromofluoromethane	108	70-130		%Rec	1	1/12/2021 9:25:00 AM	57439
Surr: Toluene-d8	98.0	70-130		%Rec	1	1/12/2021 9:25:00 AM	57439

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 5 Surface

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/5/2021 10:45:00 AM

**Lab ID:** 2101346-009

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	7000	300		mg/Kg	100	1/14/2021 3:28:40 PM	57529
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/12/2021 9:53:33 AM	57439
Surr: BFB	105	70-130		%Rec	1	1/12/2021 9:53:33 AM	57439
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	230	9.2		mg/Kg	1	1/14/2021 2:19:39 AM	57446
Motor Oil Range Organics (MRO)	290	46		mg/Kg	1	1/14/2021 2:19:39 AM	57446
Surr: DNOP	137	30.4-154		%Rec	1	1/14/2021 2:19:39 AM	57446
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 9:53:33 AM	57439
Toluene	ND	0.049		mg/Kg	1	1/12/2021 9:53:33 AM	57439
Ethylbenzene	ND	0.049		mg/Kg	1	1/12/2021 9:53:33 AM	57439
Xylenes, Total	ND	0.098		mg/Kg	1	1/12/2021 9:53:33 AM	57439
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	1/12/2021 9:53:33 AM	57439
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	1/12/2021 9:53:33 AM	57439
Surr: Dibromofluoromethane	111	70-130		%Rec	1	1/12/2021 9:53:33 AM	57439
Surr: Toluene-d8	98.7	70-130		%Rec	1	1/12/2021 9:53:33 AM	57439

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 5 1ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/5/2021 11:10:00 AM

**Lab ID:** 2101346-010

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	59		mg/Kg	20	1/14/2021 3:57:11 AM	57529
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2021 10:22:03 AM	57439
Surr: BFB	103	70-130		%Rec	1	1/12/2021 10:22:03 AM	57439
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/12/2021 6:55:07 PM	57447
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/12/2021 6:55:07 PM	57447
Surr: DNOP	110	30.4-154		%Rec	1	1/12/2021 6:55:07 PM	57447
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 10:22:03 AM	57439
Toluene	ND	0.050		mg/Kg	1	1/12/2021 10:22:03 AM	57439
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2021 10:22:03 AM	57439
Xylenes, Total	ND	0.099		mg/Kg	1	1/12/2021 10:22:03 AM	57439
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	1/12/2021 10:22:03 AM	57439
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	1/12/2021 10:22:03 AM	57439
Surr: Dibromofluoromethane	111	70-130		%Rec	1	1/12/2021 10:22:03 AM	57439
Surr: Toluene-d8	97.4	70-130		%Rec	1	1/12/2021 10:22:03 AM	57439

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 6 surface

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/5/2021 11:30:00 AM

**Lab ID:** 2101346-011

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	8100	300		mg/Kg	100	1/14/2021 3:41:04 PM	57529
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	120	9.8		mg/Kg	1	1/14/2021 1:31:52 AM	57447
Motor Oil Range Organics (MRO)	99	49		mg/Kg	1	1/14/2021 1:31:52 AM	57447
Surr: DNOP	123	30.4-154		%Rec	1	1/14/2021 1:31:52 AM	57447
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2021 8:07:23 PM	57440
Surr: BFB	114	75.3-105	S	%Rec	1	1/12/2021 8:07:23 PM	57440
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 8:07:23 PM	57440
Toluene	ND	0.050		mg/Kg	1	1/12/2021 8:07:23 PM	57440
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2021 8:07:23 PM	57440
Xylenes, Total	ND	0.099		mg/Kg	1	1/12/2021 8:07:23 PM	57440
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	1/12/2021 8:07:23 PM	57440

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 6 1ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/5/2021 11:35:00 AM

**Lab ID:** 2101346-012

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	5100	300		mg/Kg	100	1/14/2021 3:53:29 PM	57529
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/12/2021 8:28:14 PM	57447
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/12/2021 8:28:14 PM	57447
Surr: DNOP	98.4	30.4-154		%Rec	1	1/12/2021 8:28:14 PM	57447
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2021 10:29:09 PM	57440
Surr: BFB	103	75.3-105		%Rec	1	1/12/2021 10:29:09 PM	57440
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 10:29:09 PM	57440
Toluene	ND	0.050		mg/Kg	1	1/12/2021 10:29:09 PM	57440
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2021 10:29:09 PM	57440
Xylenes, Total	ND	0.10		mg/Kg	1	1/12/2021 10:29:09 PM	57440
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	1/12/2021 10:29:09 PM	57440

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 6 3ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/5/2021 12:00:00 PM

**Lab ID:** 2101346-013

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	67	60		mg/Kg	20	1/14/2021 4:34:25 AM	57529
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/12/2021 8:51:29 PM	57447
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/12/2021 8:51:29 PM	57447
Surr: DNOP	86.5	30.4-154		%Rec	1	1/12/2021 8:51:29 PM	57447
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/12/2021 11:40:20 PM	57440
Surr: BFB	103	75.3-105		%Rec	1	1/12/2021 11:40:20 PM	57440
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 11:40:20 PM	57440
Toluene	ND	0.049		mg/Kg	1	1/12/2021 11:40:20 PM	57440
Ethylbenzene	ND	0.049		mg/Kg	1	1/12/2021 11:40:20 PM	57440
Xylenes, Total	ND	0.099		mg/Kg	1	1/12/2021 11:40:20 PM	57440
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	1/12/2021 11:40:20 PM	57440

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 7 surface

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/5/2021 12:15:00 PM

**Lab ID:** 2101346-014

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	5100	300		mg/Kg	100	1/14/2021 4:05:53 PM	57529
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	1500	97		mg/Kg	10	1/12/2021 9:14:45 PM	57447
Motor Oil Range Organics (MRO)	630	490		mg/Kg	10	1/12/2021 9:14:45 PM	57447
Surr: DNOP	0	30.4-154	S	%Rec	10	1/12/2021 9:14:45 PM	57447
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	140	4.9		mg/Kg	1	1/13/2021 12:03:47 AM	57440
Surr: BFB	835	75.3-105	S	%Rec	1	1/13/2021 12:03:47 AM	57440
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/13/2021 12:03:47 AM	57440
Toluene	0.95	0.049		mg/Kg	1	1/13/2021 12:03:47 AM	57440
Ethylbenzene	1.5	0.049		mg/Kg	1	1/13/2021 12:03:47 AM	57440
Xylenes, Total	8.0	0.098		mg/Kg	1	1/13/2021 12:03:47 AM	57440
Surr: 4-Bromofluorobenzene	166	80-120	S	%Rec	1	1/13/2021 12:03:47 AM	57440

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 7 1ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/5/2021 12:35:00 PM

**Lab ID:** 2101346-015

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	1900	60		mg/Kg	20	1/14/2021 5:32:46 PM	57537
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	10	9.9		mg/Kg	1	1/12/2021 9:37:59 PM	57447
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/12/2021 9:37:59 PM	57447
Surr: DNOP	111	30.4-154		%Rec	1	1/12/2021 9:37:59 PM	57447
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/13/2021 12:27:15 AM	57440
Surr: BFB	124	75.3-105	S	%Rec	1	1/13/2021 12:27:15 AM	57440
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/13/2021 12:27:15 AM	57440
Toluene	ND	0.050		mg/Kg	1	1/13/2021 12:27:15 AM	57440
Ethylbenzene	ND	0.050		mg/Kg	1	1/13/2021 12:27:15 AM	57440
Xylenes, Total	ND	0.099		mg/Kg	1	1/13/2021 12:27:15 AM	57440
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	1/13/2021 12:27:15 AM	57440

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 7 2ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/5/2021 1:00:00 PM

**Lab ID:** 2101346-016

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	69	61		mg/Kg	20	1/14/2021 6:10:02 PM	57537
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/12/2021 10:01:12 PM	57447
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/12/2021 10:01:12 PM	57447
Surr: DNOP	110	30.4-154		%Rec	1	1/12/2021 10:01:12 PM	57447
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/13/2021 12:50:35 AM	57440
Surr: BFB	102	75.3-105		%Rec	1	1/13/2021 12:50:35 AM	57440
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/13/2021 12:50:35 AM	57440
Toluene	ND	0.050		mg/Kg	1	1/13/2021 12:50:35 AM	57440
Ethylbenzene	ND	0.050		mg/Kg	1	1/13/2021 12:50:35 AM	57440
Xylenes, Total	ND	0.099		mg/Kg	1	1/13/2021 12:50:35 AM	57440
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	1/13/2021 12:50:35 AM	57440

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH8 surface

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/5/2021 1:20:00 PM

**Lab ID:** 2101346-017

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	8700	300		mg/Kg	100	1/15/2021 5:57:12 PM	57537
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/12/2021 10:24:23 PM	57447
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/12/2021 10:24:23 PM	57447
Surr: DNOP	100	30.4-154		%Rec	1	1/12/2021 10:24:23 PM	57447
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/13/2021 1:13:57 AM	57440
Surr: BFB	103	75.3-105		%Rec	1	1/13/2021 1:13:57 AM	57440
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/13/2021 1:13:57 AM	57440
Toluene	ND	0.050		mg/Kg	1	1/13/2021 1:13:57 AM	57440
Ethylbenzene	ND	0.050		mg/Kg	1	1/13/2021 1:13:57 AM	57440
Xylenes, Total	ND	0.099		mg/Kg	1	1/13/2021 1:13:57 AM	57440
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	1/13/2021 1:13:57 AM	57440

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 8 1ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/5/2021 1:45:00 PM

**Lab ID:** 2101346-018

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	1300	60		mg/Kg	20	1/14/2021 7:24:31 PM	57537
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	1/12/2021 10:47:34 PM	57447
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/12/2021 10:47:34 PM	57447
Surr: DNOP	107	30.4-154		%Rec	1	1/12/2021 10:47:34 PM	57447
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/13/2021 1:37:22 AM	57440
Surr: BFB	102	75.3-105		%Rec	1	1/13/2021 1:37:22 AM	57440
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/13/2021 1:37:22 AM	57440
Toluene	ND	0.049		mg/Kg	1	1/13/2021 1:37:22 AM	57440
Ethylbenzene	ND	0.049		mg/Kg	1	1/13/2021 1:37:22 AM	57440
Xylenes, Total	ND	0.098		mg/Kg	1	1/13/2021 1:37:22 AM	57440
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	1/13/2021 1:37:22 AM	57440

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 8 2ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/5/2021 2:00:00 PM

**Lab ID:** 2101346-019

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	1/14/2021 7:36:55 PM	57537
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	1/12/2021 11:10:44 PM	57447
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/12/2021 11:10:44 PM	57447
Surr: DNOP	110	30.4-154		%Rec	1	1/12/2021 11:10:44 PM	57447
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/13/2021 2:01:05 AM	57440
Surr: BFB	102	75.3-105		%Rec	1	1/13/2021 2:01:05 AM	57440
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/13/2021 2:01:05 AM	57440
Toluene	ND	0.050		mg/Kg	1	1/13/2021 2:01:05 AM	57440
Ethylbenzene	ND	0.050		mg/Kg	1	1/13/2021 2:01:05 AM	57440
Xylenes, Total	ND	0.099		mg/Kg	1	1/13/2021 2:01:05 AM	57440
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	1/13/2021 2:01:05 AM	57440

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 9 surface

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/5/2021 2:15:00 PM

**Lab ID:** 2101346-020

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	800	60		mg/Kg	20	1/14/2021 7:49:21 PM	57537
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/12/2021 11:33:57 PM	57447
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/12/2021 11:33:57 PM	57447
Surr: DNOP	106	30.4-154		%Rec	1	1/12/2021 11:33:57 PM	57447
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/13/2021 2:25:00 AM	57440
Surr: BFB	100	75.3-105		%Rec	1	1/13/2021 2:25:00 AM	57440
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/13/2021 2:25:00 AM	57440
Toluene	ND	0.049		mg/Kg	1	1/13/2021 2:25:00 AM	57440
Ethylbenzene	ND	0.049		mg/Kg	1	1/13/2021 2:25:00 AM	57440
Xylenes, Total	ND	0.099		mg/Kg	1	1/13/2021 2:25:00 AM	57440
Surr: 4-Bromofluorobenzene	99.0	80-120		%Rec	1	1/13/2021 2:25:00 AM	57440

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 9 1ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/5/2021 2:40:00 PM

**Lab ID:** 2101346-021

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	780	61		mg/Kg	20	1/14/2021 8:01:46 PM	57537
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/12/2021 11:57:08 PM	57447
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/12/2021 11:57:08 PM	57447
Surr: DNOP	111	30.4-154		%Rec	1	1/12/2021 11:57:08 PM	57447
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/13/2021 2:48:41 AM	57440
Surr: BFB	100	75.3-105		%Rec	1	1/13/2021 2:48:41 AM	57440
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/13/2021 2:48:41 AM	57440
Toluene	ND	0.049		mg/Kg	1	1/13/2021 2:48:41 AM	57440
Ethylbenzene	ND	0.049		mg/Kg	1	1/13/2021 2:48:41 AM	57440
Xylenes, Total	ND	0.098		mg/Kg	1	1/13/2021 2:48:41 AM	57440
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	1/13/2021 2:48:41 AM	57440

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 9 2ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/5/2021 2:55:00 PM

**Lab ID:** 2101346-022

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	1/14/2021 8:14:12 PM	57537
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	1/13/2021 12:20:17 AM	57447
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/13/2021 12:20:17 AM	57447
Surr: DNOP	110	30.4-154		%Rec	1	1/13/2021 12:20:17 AM	57447
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/13/2021 3:35:24 AM	57440
Surr: BFB	102	75.3-105		%Rec	1	1/13/2021 3:35:24 AM	57440
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/13/2021 3:35:24 AM	57440
Toluene	ND	0.050		mg/Kg	1	1/13/2021 3:35:24 AM	57440
Ethylbenzene	ND	0.050		mg/Kg	1	1/13/2021 3:35:24 AM	57440
Xylenes, Total	ND	0.10		mg/Kg	1	1/13/2021 3:35:24 AM	57440
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	1/13/2021 3:35:24 AM	57440

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 10 Surface

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/5/2021 3:00:00 PM

**Lab ID:** 2101346-023

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	6800	300		mg/Kg	100	1/15/2021 6:09:37 PM	57537
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	1/13/2021 12:43:26 AM	57447
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/13/2021 12:43:26 AM	57447
Surr: DNOP	131	30.4-154		%Rec	1	1/13/2021 12:43:26 AM	57447
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/13/2021 3:58:49 AM	57440
Surr: BFB	101	75.3-105		%Rec	1	1/13/2021 3:58:49 AM	57440
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/13/2021 3:58:49 AM	57440
Toluene	ND	0.050		mg/Kg	1	1/13/2021 3:58:49 AM	57440
Ethylbenzene	ND	0.050		mg/Kg	1	1/13/2021 3:58:49 AM	57440
Xylenes, Total	ND	0.10		mg/Kg	1	1/13/2021 3:58:49 AM	57440
Surr: 4-Bromofluorobenzene	99.2	80-120		%Rec	1	1/13/2021 3:58:49 AM	57440

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 10 1ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/5/2021 3:10:00 PM

**Lab ID:** 2101346-024

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	1/14/2021 8:39:02 PM	57537
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/13/2021 1:06:36 AM	57447
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/13/2021 1:06:36 AM	57447
Surr: DNOP	102	30.4-154		%Rec	1	1/13/2021 1:06:36 AM	57447
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/13/2021 4:22:19 AM	57440
Surr: BFB	103	75.3-105		%Rec	1	1/13/2021 4:22:19 AM	57440
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/13/2021 4:22:19 AM	57440
Toluene	ND	0.049		mg/Kg	1	1/13/2021 4:22:19 AM	57440
Ethylbenzene	ND	0.049		mg/Kg	1	1/13/2021 4:22:19 AM	57440
Xylenes, Total	ND	0.097		mg/Kg	1	1/13/2021 4:22:19 AM	57440
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	1/13/2021 4:22:19 AM	57440

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 18 surface

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/6/2021 9:45:00 AM

**Lab ID:** 2101346-025

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	15000	600		mg/Kg	200	1/15/2021 6:22:02 PM	57537
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	2300	180		mg/Kg	20	1/13/2021 1:29:48 AM	57447
Motor Oil Range Organics (MRO)	1000	890		mg/Kg	20	1/13/2021 1:29:48 AM	57447
Surr: DNOP	0	30.4-154	S	%Rec	20	1/13/2021 1:29:48 AM	57447
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	190	25		mg/Kg	5	1/13/2021 4:46:10 AM	57440
Surr: BFB	299	75.3-105	S	%Rec	5	1/13/2021 4:46:10 AM	57440
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.12		mg/Kg	5	1/13/2021 4:46:10 AM	57440
Toluene	1.4	0.25		mg/Kg	5	1/13/2021 4:46:10 AM	57440
Ethylbenzene	1.7	0.25		mg/Kg	5	1/13/2021 4:46:10 AM	57440
Xylenes, Total	9.6	0.49		mg/Kg	5	1/13/2021 4:46:10 AM	57440
Surr: 4-Bromofluorobenzene	119	80-120		%Rec	5	1/13/2021 4:46:10 AM	57440

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 18 1ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/6/2021 9:50:00 AM

**Lab ID:** 2101346-026

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	9600	600		mg/Kg	200	1/15/2021 6:59:16 PM	57537
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	390	92		mg/Kg	10	1/14/2021 1:55:38 AM	57447
Motor Oil Range Organics (MRO)	1100	460		mg/Kg	10	1/14/2021 1:55:38 AM	57447
Surr: DNOP	0	30.4-154	S	%Rec	10	1/14/2021 1:55:38 AM	57447
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	29	25		mg/Kg	5	1/13/2021 1:27:51 PM	57440
Surr: BFB	230	75.3-105	S	%Rec	5	1/13/2021 1:27:51 PM	57440
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.12		mg/Kg	5	1/13/2021 1:27:51 PM	57440
Toluene	0.39	0.25		mg/Kg	5	1/13/2021 1:27:51 PM	57440
Ethylbenzene	ND	0.25		mg/Kg	5	1/13/2021 1:27:51 PM	57440
Xylenes, Total	0.97	0.49		mg/Kg	5	1/13/2021 1:27:51 PM	57440
Surr: 4-Bromofluorobenzene	222	80-120	S	%Rec	5	1/13/2021 1:27:51 PM	57440

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 18 3ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/6/2021 10:30:00 AM

**Lab ID:** 2101346-027

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	9000	600		mg/Kg	200	1/15/2021 7:11:41 PM	57537
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/13/2021 2:16:04 AM	57447
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/13/2021 2:16:04 AM	57447
Surr: DNOP	94.8	30.4-154		%Rec	1	1/13/2021 2:16:04 AM	57447
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/13/2021 1:51:11 PM	57440
Surr: BFB	107	75.3-105	S	%Rec	1	1/13/2021 1:51:11 PM	57440
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/13/2021 1:51:11 PM	57440
Toluene	ND	0.049		mg/Kg	1	1/13/2021 1:51:11 PM	57440
Ethylbenzene	ND	0.049		mg/Kg	1	1/13/2021 1:51:11 PM	57440
Xylenes, Total	ND	0.098		mg/Kg	1	1/13/2021 1:51:11 PM	57440
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	1/13/2021 1:51:11 PM	57440

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 19 surface

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/6/2021 10:40:00 AM

**Lab ID:** 2101346-028

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	3800	150		mg/Kg	50	1/15/2021 7:24:06 PM	57537
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	13000	480		mg/Kg	50	1/13/2021 2:39:21 AM	57447
Motor Oil Range Organics (MRO)	5700	2400		mg/Kg	50	1/13/2021 2:39:21 AM	57447
Surr: DNOP	0	30.4-154	S	%Rec	50	1/13/2021 2:39:21 AM	57447
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	3800	250		mg/Kg	50	1/13/2021 3:48:17 PM	57440
Surr: BFB	344	75.3-105	S	%Rec	50	1/13/2021 3:48:17 PM	57440
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	8.5	0.12		mg/Kg	5	1/13/2021 2:14:43 PM	57440
Toluene	83	2.5		mg/Kg	50	1/13/2021 3:48:17 PM	57440
Ethylbenzene	32	2.5		mg/Kg	50	1/13/2021 3:48:17 PM	57440
Xylenes, Total	140	4.9		mg/Kg	50	1/13/2021 3:48:17 PM	57440
Surr: 4-Bromofluorobenzene	124	80-120	S	%Rec	50	1/13/2021 3:48:17 PM	57440

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 19 1 ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/6/2021 10:50:00 AM

**Lab ID:** 2101346-029

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	5700	300		mg/Kg	100	1/15/2021 7:36:31 PM	57537
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/13/2021 3:02:30 AM	57447
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/13/2021 3:02:30 AM	57447
Surr: DNOP	97.7	30.4-154		%Rec	1	1/13/2021 3:02:30 AM	57447
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/13/2021 4:11:31 PM	57440
Surr: BFB	105	75.3-105		%Rec	1	1/13/2021 4:11:31 PM	57440
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/13/2021 4:11:31 PM	57440
Toluene	ND	0.049		mg/Kg	1	1/13/2021 4:11:31 PM	57440
Ethylbenzene	ND	0.049		mg/Kg	1	1/13/2021 4:11:31 PM	57440
Xylenes, Total	ND	0.098		mg/Kg	1	1/13/2021 4:11:31 PM	57440
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	1/13/2021 4:11:31 PM	57440

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 19 2 ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/6/2021 11:10:00 AM

**Lab ID:** 2101346-030

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	210	60		mg/Kg	20	1/14/2021 10:18:21 PM	57537
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/13/2021 2:38:53 AM	57448
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/13/2021 2:38:53 AM	57448
Surr: DNOP	148	30.4-154		%Rec	1	1/13/2021 2:38:53 AM	57448
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/13/2021 4:35:06 PM	57440
Surr: BFB	105	75.3-105	S	%Rec	1	1/13/2021 4:35:06 PM	57440
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/13/2021 4:35:06 PM	57440
Toluene	ND	0.050		mg/Kg	1	1/13/2021 4:35:06 PM	57440
Ethylbenzene	ND	0.050		mg/Kg	1	1/13/2021 4:35:06 PM	57440
Xylenes, Total	ND	0.099		mg/Kg	1	1/13/2021 4:35:06 PM	57440
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	1/13/2021 4:35:06 PM	57440

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 20 surface

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/6/2021 11:20:00 AM

**Lab ID:** 2101346-031

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	2100	60		mg/Kg	20	1/14/2021 10:30:46 PM	57537
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/11/2021 10:14:32 PM	57442
Surr: BFB	83.8	70-130		%Rec	1	1/11/2021 10:14:32 PM	57442
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	23	9.0		mg/Kg	1	1/14/2021 3:07:26 AM	57448
Motor Oil Range Organics (MRO)	120	45		mg/Kg	1	1/14/2021 3:07:26 AM	57448
Surr: DNOP	118	30.4-154		%Rec	1	1/14/2021 3:07:26 AM	57448
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/11/2021 10:14:32 PM	57442
Toluene	ND	0.050		mg/Kg	1	1/11/2021 10:14:32 PM	57442
Ethylbenzene	ND	0.050		mg/Kg	1	1/11/2021 10:14:32 PM	57442
Xylenes, Total	ND	0.099		mg/Kg	1	1/11/2021 10:14:32 PM	57442
Surr: 1,2-Dichloroethane-d4	98.3	70-130		%Rec	1	1/11/2021 10:14:32 PM	57442
Surr: 4-Bromofluorobenzene	91.9	70-130		%Rec	1	1/11/2021 10:14:32 PM	57442
Surr: Dibromofluoromethane	91.4	70-130		%Rec	1	1/11/2021 10:14:32 PM	57442
Surr: Toluene-d8	98.5	70-130		%Rec	1	1/11/2021 10:14:32 PM	57442

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 20 1 ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/6/2021 11:25:00 AM

**Lab ID:** 2101346-032

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	5500	300		mg/Kg	100	1/15/2021 7:48:56 PM	57537
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/12/2021 1:24:41 AM	57442
Surr: BFB	89.1	70-130		%Rec	1	1/12/2021 1:24:41 AM	57442
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/13/2021 4:14:51 AM	57448
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/13/2021 4:14:51 AM	57448
Surr: DNOP	124	30.4-154		%Rec	1	1/13/2021 4:14:51 AM	57448
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.024		mg/Kg	1	1/12/2021 1:24:41 AM	57442
Toluene	ND	0.049		mg/Kg	1	1/12/2021 1:24:41 AM	57442
Ethylbenzene	ND	0.049		mg/Kg	1	1/12/2021 1:24:41 AM	57442
Xylenes, Total	ND	0.098		mg/Kg	1	1/12/2021 1:24:41 AM	57442
Surr: 1,2-Dichloroethane-d4	96.6	70-130		%Rec	1	1/12/2021 1:24:41 AM	57442
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	1/12/2021 1:24:41 AM	57442
Surr: Dibromofluoromethane	91.0	70-130		%Rec	1	1/12/2021 1:24:41 AM	57442
Surr: Toluene-d8	99.6	70-130		%Rec	1	1/12/2021 1:24:41 AM	57442

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 20 2 ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/6/2021 11:50:00 AM

**Lab ID:** 2101346-033

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	230	60		mg/Kg	20	1/14/2021 10:55:35 PM	57537
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2021 2:46:19 AM	57442
Surr: BFB	86.2	70-130		%Rec	1	1/12/2021 2:46:19 AM	57442
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/13/2021 4:38:41 AM	57448
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/13/2021 4:38:41 AM	57448
Surr: DNOP	135	30.4-154		%Rec	1	1/13/2021 4:38:41 AM	57448
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 2:46:19 AM	57442
Toluene	ND	0.050		mg/Kg	1	1/12/2021 2:46:19 AM	57442
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2021 2:46:19 AM	57442
Xylenes, Total	ND	0.099		mg/Kg	1	1/12/2021 2:46:19 AM	57442
Surr: 1,2-Dichloroethane-d4	99.4	70-130		%Rec	1	1/12/2021 2:46:19 AM	57442
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	1/12/2021 2:46:19 AM	57442
Surr: Dibromofluoromethane	93.4	70-130		%Rec	1	1/12/2021 2:46:19 AM	57442
Surr: Toluene-d8	96.2	70-130		%Rec	1	1/12/2021 2:46:19 AM	57442

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 11 surface

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/6/2021 11:55:00 AM

**Lab ID:** 2101346-034

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	6500	300		mg/Kg	100	1/15/2021 8:01:20 PM	57558
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	6.6	4.9		mg/Kg	1	1/12/2021 3:13:24 AM	57442
Surr: BFB	93.0	70-130		%Rec	1	1/12/2021 3:13:24 AM	57442
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	130	9.8		mg/Kg	1	1/13/2021 5:02:39 AM	57448
Motor Oil Range Organics (MRO)	72	49		mg/Kg	1	1/13/2021 5:02:39 AM	57448
Surr: DNOP	120	30.4-154		%Rec	1	1/13/2021 5:02:39 AM	57448
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 3:13:24 AM	57442
Toluene	ND	0.049		mg/Kg	1	1/12/2021 3:13:24 AM	57442
Ethylbenzene	ND	0.049		mg/Kg	1	1/12/2021 3:13:24 AM	57442
Xylenes, Total	0.21	0.099		mg/Kg	1	1/12/2021 3:13:24 AM	57442
Surr: 1,2-Dichloroethane-d4	98.0	70-130		%Rec	1	1/12/2021 3:13:24 AM	57442
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	1/12/2021 3:13:24 AM	57442
Surr: Dibromofluoromethane	91.7	70-130		%Rec	1	1/12/2021 3:13:24 AM	57442
Surr: Toluene-d8	95.1	70-130		%Rec	1	1/12/2021 3:13:24 AM	57442

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 11 1ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/6/2021 12:05:00 PM

**Lab ID:** 2101346-035

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	510	61		mg/Kg	20	1/15/2021 12:59:21 PM	57558
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/12/2021 3:40:40 AM	57442
Surr: BFB	83.2	70-130		%Rec	1	1/12/2021 3:40:40 AM	57442
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/13/2021 5:26:36 AM	57448
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/13/2021 5:26:36 AM	57448
Surr: DNOP	129	30.4-154		%Rec	1	1/13/2021 5:26:36 AM	57448
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 3:40:40 AM	57442
Toluene	ND	0.049		mg/Kg	1	1/12/2021 3:40:40 AM	57442
Ethylbenzene	ND	0.049		mg/Kg	1	1/12/2021 3:40:40 AM	57442
Xylenes, Total	ND	0.099		mg/Kg	1	1/12/2021 3:40:40 AM	57442
Surr: 1,2-Dichloroethane-d4	96.3	70-130		%Rec	1	1/12/2021 3:40:40 AM	57442
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	1/12/2021 3:40:40 AM	57442
Surr: Dibromofluoromethane	89.1	70-130		%Rec	1	1/12/2021 3:40:40 AM	57442
Surr: Toluene-d8	95.4	70-130		%Rec	1	1/12/2021 3:40:40 AM	57442

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 11 2 ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/6/2021 12:30:00 PM

**Lab ID:** 2101346-036

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	190	59		mg/Kg	20	1/15/2021 2:01:25 PM	57558
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/12/2021 4:07:58 AM	57442
Surr: BFB	84.9	70-130		%Rec	1	1/12/2021 4:07:58 AM	57442
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	1/13/2021 5:50:41 AM	57448
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/13/2021 5:50:41 AM	57448
Surr: DNOP	155	30.4-154	S	%Rec	1	1/13/2021 5:50:41 AM	57448
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 4:07:58 AM	57442
Toluene	ND	0.049		mg/Kg	1	1/12/2021 4:07:58 AM	57442
Ethylbenzene	ND	0.049		mg/Kg	1	1/12/2021 4:07:58 AM	57442
Xylenes, Total	ND	0.098		mg/Kg	1	1/12/2021 4:07:58 AM	57442
Surr: 1,2-Dichloroethane-d4	92.9	70-130		%Rec	1	1/12/2021 4:07:58 AM	57442
Surr: 4-Bromofluorobenzene	92.0	70-130		%Rec	1	1/12/2021 4:07:58 AM	57442
Surr: Dibromofluoromethane	88.2	70-130		%Rec	1	1/12/2021 4:07:58 AM	57442
Surr: Toluene-d8	99.2	70-130		%Rec	1	1/12/2021 4:07:58 AM	57442

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 15 surface

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/7/2021 9:20:00 AM

**Lab ID:** 2101346-037

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	6000	300		mg/Kg	100	1/15/2021 8:13:44 PM	57558
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/12/2021 4:35:06 AM	57442
Surr: BFB	83.9	70-130		%Rec	1	1/12/2021 4:35:06 AM	57442
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/13/2021 6:14:39 AM	57448
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/13/2021 6:14:39 AM	57448
Surr: DNOP	159	30.4-154	S	%Rec	1	1/13/2021 6:14:39 AM	57448
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 4:35:06 AM	57442
Toluene	ND	0.049		mg/Kg	1	1/12/2021 4:35:06 AM	57442
Ethylbenzene	ND	0.049		mg/Kg	1	1/12/2021 4:35:06 AM	57442
Xylenes, Total	ND	0.099		mg/Kg	1	1/12/2021 4:35:06 AM	57442
Surr: 1,2-Dichloroethane-d4	97.4	70-130		%Rec	1	1/12/2021 4:35:06 AM	57442
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	1/12/2021 4:35:06 AM	57442
Surr: Dibromofluoromethane	88.6	70-130		%Rec	1	1/12/2021 4:35:06 AM	57442
Surr: Toluene-d8	95.1	70-130		%Rec	1	1/12/2021 4:35:06 AM	57442

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 15 1ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/7/2021 9:30:00 AM

**Lab ID:** 2101346-038

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	1300	60		mg/Kg	20	1/15/2021 2:26:14 PM	57558
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2021 5:02:10 AM	57442
Surr: BFB	83.2	70-130		%Rec	1	1/12/2021 5:02:10 AM	57442
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	1/13/2021 6:38:36 AM	57448
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	1/13/2021 6:38:36 AM	57448
Surr: DNOP	123	30.4-154		%Rec	1	1/13/2021 6:38:36 AM	57448
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 5:02:10 AM	57442
Toluene	ND	0.050		mg/Kg	1	1/12/2021 5:02:10 AM	57442
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2021 5:02:10 AM	57442
Xylenes, Total	ND	0.099		mg/Kg	1	1/12/2021 5:02:10 AM	57442
Surr: 1,2-Dichloroethane-d4	94.8	70-130		%Rec	1	1/12/2021 5:02:10 AM	57442
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	1/12/2021 5:02:10 AM	57442
Surr: Dibromofluoromethane	83.9	70-130		%Rec	1	1/12/2021 5:02:10 AM	57442
Surr: Toluene-d8	97.0	70-130		%Rec	1	1/12/2021 5:02:10 AM	57442

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 15 2ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/7/2021 9:55:00 AM

**Lab ID:** 2101346-039

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	290	60		mg/Kg	20	1/15/2021 2:38:39 PM	57558
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2021 5:29:30 AM	57442
Surr: BFB	86.4	70-130		%Rec	1	1/12/2021 5:29:30 AM	57442
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/13/2021 7:02:28 AM	57448
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/13/2021 7:02:28 AM	57448
Surr: DNOP	121	30.4-154		%Rec	1	1/13/2021 7:02:28 AM	57448
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 5:29:30 AM	57442
Toluene	ND	0.050		mg/Kg	1	1/12/2021 5:29:30 AM	57442
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2021 5:29:30 AM	57442
Xylenes, Total	ND	0.099		mg/Kg	1	1/12/2021 5:29:30 AM	57442
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	1/12/2021 5:29:30 AM	57442
Surr: 4-Bromofluorobenzene	91.1	70-130		%Rec	1	1/12/2021 5:29:30 AM	57442
Surr: Dibromofluoromethane	87.1	70-130		%Rec	1	1/12/2021 5:29:30 AM	57442
Surr: Toluene-d8	93.0	70-130		%Rec	1	1/12/2021 5:29:30 AM	57442

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 16 surface

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/7/2021 10:00:00 AM

**Lab ID:** 2101346-040

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	4500	150		mg/Kg	50	1/15/2021 8:26:09 PM	57558
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2021 5:56:49 AM	57442
Surr: BFB	90.1	70-130		%Rec	1	1/12/2021 5:56:49 AM	57442
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/13/2021 7:26:28 AM	57448
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/13/2021 7:26:28 AM	57448
Surr: DNOP	119	30.4-154		%Rec	1	1/13/2021 7:26:28 AM	57448
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 5:56:49 AM	57442
Toluene	ND	0.050		mg/Kg	1	1/12/2021 5:56:49 AM	57442
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2021 5:56:49 AM	57442
Xylenes, Total	ND	0.099		mg/Kg	1	1/12/2021 5:56:49 AM	57442
Surr: 1,2-Dichloroethane-d4	98.0	70-130		%Rec	1	1/12/2021 5:56:49 AM	57442
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	1/12/2021 5:56:49 AM	57442
Surr: Dibromofluoromethane	91.1	70-130		%Rec	1	1/12/2021 5:56:49 AM	57442
Surr: Toluene-d8	98.7	70-130		%Rec	1	1/12/2021 5:56:49 AM	57442

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-16 1ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/7/2021 10:10:00 AM

**Lab ID:** 2101346-041

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	1100	60		mg/Kg	20	1/15/2021 3:03:29 PM	57558
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2021 6:23:53 AM	57442
Surr: BFB	91.8	70-130		%Rec	1	1/12/2021 6:23:53 AM	57442
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/13/2021 7:50:35 AM	57448
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/13/2021 7:50:35 AM	57448
Surr: DNOP	112	30.4-154		%Rec	1	1/13/2021 7:50:35 AM	57448
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 6:23:53 AM	57442
Toluene	ND	0.050		mg/Kg	1	1/12/2021 6:23:53 AM	57442
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2021 6:23:53 AM	57442
Xylenes, Total	ND	0.099		mg/Kg	1	1/12/2021 6:23:53 AM	57442
Surr: 1,2-Dichloroethane-d4	96.7	70-130		%Rec	1	1/12/2021 6:23:53 AM	57442
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	1/12/2021 6:23:53 AM	57442
Surr: Dibromofluoromethane	85.3	70-130		%Rec	1	1/12/2021 6:23:53 AM	57442
Surr: Toluene-d8	97.5	70-130		%Rec	1	1/12/2021 6:23:53 AM	57442

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 16 2ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/7/2021 10:35:00 AM

**Lab ID:** 2101346-042

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	310	61		mg/Kg	20	1/15/2021 3:15:53 PM	57558
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2021 6:51:06 AM	57442
Surr: BFB	87.8	70-130		%Rec	1	1/12/2021 6:51:06 AM	57442
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/13/2021 8:14:33 AM	57448
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/13/2021 8:14:33 AM	57448
Surr: DNOP	123	30.4-154		%Rec	1	1/13/2021 8:14:33 AM	57448
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 6:51:06 AM	57442
Toluene	ND	0.050		mg/Kg	1	1/12/2021 6:51:06 AM	57442
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2021 6:51:06 AM	57442
Xylenes, Total	ND	0.10		mg/Kg	1	1/12/2021 6:51:06 AM	57442
Surr: 1,2-Dichloroethane-d4	89.4	70-130		%Rec	1	1/12/2021 6:51:06 AM	57442
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	1/12/2021 6:51:06 AM	57442
Surr: Dibromofluoromethane	84.3	70-130		%Rec	1	1/12/2021 6:51:06 AM	57442
Surr: Toluene-d8	101	70-130		%Rec	1	1/12/2021 6:51:06 AM	57442

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 17 surface

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/7/2021 10:45:00 AM

**Lab ID:** 2101346-043

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	540	60		mg/Kg	20	1/15/2021 3:28:18 PM	57558
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2021 7:18:28 AM	57442
Surr: BFB	91.7	70-130		%Rec	1	1/12/2021 7:18:28 AM	57442
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/13/2021 8:38:28 AM	57448
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/13/2021 8:38:28 AM	57448
Surr: DNOP	123	30.4-154		%Rec	1	1/13/2021 8:38:28 AM	57448
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 7:18:28 AM	57442
Toluene	ND	0.050		mg/Kg	1	1/12/2021 7:18:28 AM	57442
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2021 7:18:28 AM	57442
Xylenes, Total	ND	0.099		mg/Kg	1	1/12/2021 7:18:28 AM	57442
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	1/12/2021 7:18:28 AM	57442
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	1/12/2021 7:18:28 AM	57442
Surr: Dibromofluoromethane	92.2	70-130		%Rec	1	1/12/2021 7:18:28 AM	57442
Surr: Toluene-d8	102	70-130		%Rec	1	1/12/2021 7:18:28 AM	57442

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 17 1ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/7/2021 11:00:00 AM

**Lab ID:** 2101346-044

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	1100	61		mg/Kg	20	1/15/2021 3:40:43 PM	57558
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2021 7:45:37 AM	57442
Surr: BFB	90.4	70-130		%Rec	1	1/12/2021 7:45:37 AM	57442
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/13/2021 12:14:43 PM	57448
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/13/2021 12:14:43 PM	57448
Surr: DNOP	125	30.4-154		%Rec	1	1/13/2021 12:14:43 PM	57448
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 7:45:37 AM	57442
Toluene	ND	0.050		mg/Kg	1	1/12/2021 7:45:37 AM	57442
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2021 7:45:37 AM	57442
Xylenes, Total	ND	0.10		mg/Kg	1	1/12/2021 7:45:37 AM	57442
Surr: 1,2-Dichloroethane-d4	88.5	70-130		%Rec	1	1/12/2021 7:45:37 AM	57442
Surr: 4-Bromofluorobenzene	96.5	70-130		%Rec	1	1/12/2021 7:45:37 AM	57442
Surr: Dibromofluoromethane	82.0	70-130		%Rec	1	1/12/2021 7:45:37 AM	57442
Surr: Toluene-d8	102	70-130		%Rec	1	1/12/2021 7:45:37 AM	57442

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 17 2 ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/7/2021 11:20:00 AM

**Lab ID:** 2101346-045

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	1/15/2021 3:53:07 PM	57558
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/12/2021 8:12:47 AM	57442
Surr: BFB	86.9	70-130		%Rec	1	1/12/2021 8:12:47 AM	57442
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/13/2021 12:38:44 PM	57448
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/13/2021 12:38:44 PM	57448
Surr: DNOP	124	30.4-154		%Rec	1	1/13/2021 12:38:44 PM	57448
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 8:12:47 AM	57442
Toluene	ND	0.049		mg/Kg	1	1/12/2021 8:12:47 AM	57442
Ethylbenzene	ND	0.049		mg/Kg	1	1/12/2021 8:12:47 AM	57442
Xylenes, Total	ND	0.098		mg/Kg	1	1/12/2021 8:12:47 AM	57442
Surr: 1,2-Dichloroethane-d4	95.1	70-130		%Rec	1	1/12/2021 8:12:47 AM	57442
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	1/12/2021 8:12:47 AM	57442
Surr: Dibromofluoromethane	85.6	70-130		%Rec	1	1/12/2021 8:12:47 AM	57442
Surr: Toluene-d8	98.7	70-130		%Rec	1	1/12/2021 8:12:47 AM	57442

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** H-21 North

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/7/2021 12:30:00 PM

**Lab ID:** 2101346-046

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	1/15/2021 4:30:20 PM	57558
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2021 8:40:00 AM	57442
Surr: BFB	87.3	70-130		%Rec	1	1/12/2021 8:40:00 AM	57442
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/13/2021 1:02:42 PM	57448
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/13/2021 1:02:42 PM	57448
Surr: DNOP	74.2	30.4-154		%Rec	1	1/13/2021 1:02:42 PM	57448
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 8:40:00 AM	57442
Toluene	ND	0.050		mg/Kg	1	1/12/2021 8:40:00 AM	57442
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2021 8:40:00 AM	57442
Xylenes, Total	ND	0.10		mg/Kg	1	1/12/2021 8:40:00 AM	57442
Surr: 1,2-Dichloroethane-d4	92.5	70-130		%Rec	1	1/12/2021 8:40:00 AM	57442
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	1	1/12/2021 8:40:00 AM	57442
Surr: Dibromofluoromethane	84.8	70-130		%Rec	1	1/12/2021 8:40:00 AM	57442
Surr: Toluene-d8	103	70-130		%Rec	1	1/12/2021 8:40:00 AM	57442

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** H-22 North

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/7/2021 12:45:00 PM

**Lab ID:** 2101346-047

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	61		mg/Kg	20	1/15/2021 4:42:45 PM	57558
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2021 9:07:10 AM	57442
Surr: BFB	87.0	70-130		%Rec	1	1/12/2021 9:07:10 AM	57442
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/13/2021 1:26:47 PM	57448
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/13/2021 1:26:47 PM	57448
Surr: DNOP	89.3	30.4-154		%Rec	1	1/13/2021 1:26:47 PM	57448
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 9:07:10 AM	57442
Toluene	ND	0.050		mg/Kg	1	1/12/2021 9:07:10 AM	57442
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2021 9:07:10 AM	57442
Xylenes, Total	ND	0.10		mg/Kg	1	1/12/2021 9:07:10 AM	57442
Surr: 1,2-Dichloroethane-d4	93.8	70-130		%Rec	1	1/12/2021 9:07:10 AM	57442
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	1/12/2021 9:07:10 AM	57442
Surr: Dibromofluoromethane	86.4	70-130		%Rec	1	1/12/2021 9:07:10 AM	57442
Surr: Toluene-d8	101	70-130		%Rec	1	1/12/2021 9:07:10 AM	57442

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** H-23 West

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/7/2021 1:00:00 PM

**Lab ID:** 2101346-048

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	1/15/2021 4:55:10 PM	57558
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2021 9:34:20 AM	57442
Surr: BFB	88.8	70-130		%Rec	1	1/12/2021 9:34:20 AM	57442
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/13/2021 1:50:40 PM	57448
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/13/2021 1:50:40 PM	57448
Surr: DNOP	93.1	30.4-154		%Rec	1	1/13/2021 1:50:40 PM	57448
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 9:34:20 AM	57442
Toluene	ND	0.050		mg/Kg	1	1/12/2021 9:34:20 AM	57442
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2021 9:34:20 AM	57442
Xylenes, Total	ND	0.099		mg/Kg	1	1/12/2021 9:34:20 AM	57442
Surr: 1,2-Dichloroethane-d4	97.0	70-130		%Rec	1	1/12/2021 9:34:20 AM	57442
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	1/12/2021 9:34:20 AM	57442
Surr: Dibromofluoromethane	84.4	70-130		%Rec	1	1/12/2021 9:34:20 AM	57442
Surr: Toluene-d8	101	70-130		%Rec	1	1/12/2021 9:34:20 AM	57442

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** H-24 West

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/7/2021 1:10:00 PM

**Lab ID:** 2101346-049

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	1/15/2021 5:07:35 PM	57558
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/12/2021 10:01:31 AM	57442
Surr: BFB	85.1	70-130		%Rec	1	1/12/2021 10:01:31 AM	57442
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/13/2021 12:27:32 PM	57483
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/13/2021 12:27:32 PM	57483
Surr: DNOP	106	30.4-154		%Rec	1	1/13/2021 12:27:32 PM	57483
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.024		mg/Kg	1	1/12/2021 10:01:31 AM	57442
Toluene	ND	0.049		mg/Kg	1	1/12/2021 10:01:31 AM	57442
Ethylbenzene	ND	0.049		mg/Kg	1	1/12/2021 10:01:31 AM	57442
Xylenes, Total	ND	0.098		mg/Kg	1	1/12/2021 10:01:31 AM	57442
Surr: 1,2-Dichloroethane-d4	99.2	70-130		%Rec	1	1/12/2021 10:01:31 AM	57442
Surr: 4-Bromofluorobenzene	91.0	70-130		%Rec	1	1/12/2021 10:01:31 AM	57442
Surr: Dibromofluoromethane	86.9	70-130		%Rec	1	1/12/2021 10:01:31 AM	57442
Surr: Toluene-d8	102	70-130		%Rec	1	1/12/2021 10:01:31 AM	57442

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** H-25 South

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/7/2021 1:25:00 PM

**Lab ID:** 2101346-050

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	59		mg/Kg	20	1/15/2021 5:19:59 PM	57558
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2021 10:28:56 AM	57442
Surr: BFB	89.2	70-130		%Rec	1	1/12/2021 10:28:56 AM	57442
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/13/2021 1:38:44 PM	57483
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/13/2021 1:38:44 PM	57483
Surr: DNOP	109	30.4-154		%Rec	1	1/13/2021 1:38:44 PM	57483
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 10:28:56 AM	57442
Toluene	ND	0.050		mg/Kg	1	1/12/2021 10:28:56 AM	57442
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2021 10:28:56 AM	57442
Xylenes, Total	ND	0.10		mg/Kg	1	1/12/2021 10:28:56 AM	57442
Surr: 1,2-Dichloroethane-d4	93.5	70-130		%Rec	1	1/12/2021 10:28:56 AM	57442
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	1/12/2021 10:28:56 AM	57442
Surr: Dibromofluoromethane	86.5	70-130		%Rec	1	1/12/2021 10:28:56 AM	57442
Surr: Toluene-d8	95.1	70-130		%Rec	1	1/12/2021 10:28:56 AM	57442

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** H-26 South

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/7/2021 1:35:00 PM

**Lab ID:** 2101346-051

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	1/15/2021 5:32:23 PM	57558
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/12/2021 7:44:06 PM	57467
Surr: BFB	105	70-130		%Rec	1	1/12/2021 7:44:06 PM	57467
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/13/2021 2:02:33 PM	57483
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/13/2021 2:02:33 PM	57483
Surr: DNOP	89.9	30.4-154		%Rec	1	1/13/2021 2:02:33 PM	57483
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.024		mg/Kg	1	1/12/2021 7:44:06 PM	57467
Toluene	ND	0.048		mg/Kg	1	1/12/2021 7:44:06 PM	57467
Ethylbenzene	ND	0.048		mg/Kg	1	1/12/2021 7:44:06 PM	57467
Xylenes, Total	ND	0.097		mg/Kg	1	1/12/2021 7:44:06 PM	57467
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	1/12/2021 7:44:06 PM	57467
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	1/12/2021 7:44:06 PM	57467
Surr: Dibromofluoromethane	111	70-130		%Rec	1	1/12/2021 7:44:06 PM	57467
Surr: Toluene-d8	98.8	70-130		%Rec	1	1/12/2021 7:44:06 PM	57467

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** H-27 East

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/7/2021 1:50:00 PM

**Lab ID:** 2101346-052

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	1/15/2021 5:44:47 PM	57558
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/12/2021 9:09:50 PM	57467
Surr: BFB	104	70-130		%Rec	1	1/12/2021 9:09:50 PM	57467
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/13/2021 2:26:24 PM	57483
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/13/2021 2:26:24 PM	57483
Surr: DNOP	108	30.4-154		%Rec	1	1/13/2021 2:26:24 PM	57483
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.024		mg/Kg	1	1/12/2021 9:09:50 PM	57467
Toluene	ND	0.048		mg/Kg	1	1/12/2021 9:09:50 PM	57467
Ethylbenzene	ND	0.048		mg/Kg	1	1/12/2021 9:09:50 PM	57467
Xylenes, Total	ND	0.096		mg/Kg	1	1/12/2021 9:09:50 PM	57467
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	1/12/2021 9:09:50 PM	57467
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	1/12/2021 9:09:50 PM	57467
Surr: Dibromofluoromethane	112	70-130		%Rec	1	1/12/2021 9:09:50 PM	57467
Surr: Toluene-d8	98.3	70-130		%Rec	1	1/12/2021 9:09:50 PM	57467

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

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

**Analytical Report**

Lab Order **2101346**

Date Reported: **1/18/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** H-28 East

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/7/2021 2:10:00 PM

**Lab ID:** 2101346-053

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	61		mg/Kg	20	1/16/2021 11:04:19 AM	57571
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2021 9:38:17 PM	57467
Surr: BFB	107	70-130		%Rec	1	1/12/2021 9:38:17 PM	57467
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/13/2021 2:50:15 PM	57483
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/13/2021 2:50:15 PM	57483
Surr: DNOP	73.8	30.4-154		%Rec	1	1/13/2021 2:50:15 PM	57483
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 9:38:17 PM	57467
Toluene	ND	0.050		mg/Kg	1	1/12/2021 9:38:17 PM	57467
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2021 9:38:17 PM	57467
Xylenes, Total	ND	0.099		mg/Kg	1	1/12/2021 9:38:17 PM	57467
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	1/12/2021 9:38:17 PM	57467
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	1/12/2021 9:38:17 PM	57467
Surr: Dibromofluoromethane	110	70-130		%Rec	1	1/12/2021 9:38:17 PM	57467
Surr: Toluene-d8	100	70-130		%Rec	1	1/12/2021 9:38:17 PM	57467

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2101346

18-Jan-21

**Client:** Safety & Environmental Solutions

**Project:** Devon Mesa Verde 6 Fed 2

Sample ID: <b>MB-57529</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>57529</b>	RunNo: <b>74587</b>								
Prep Date: <b>1/13/2021</b>	Analysis Date: <b>1/13/2021</b>	SeqNo: <b>2633358</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-57529</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>57529</b>	RunNo: <b>74587</b>								
Prep Date: <b>1/13/2021</b>	Analysis Date: <b>1/13/2021</b>	SeqNo: <b>2633359</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.1	90	110			

Sample ID: <b>MB-57537</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>57537</b>	RunNo: <b>74618</b>								
Prep Date: <b>1/14/2021</b>	Analysis Date: <b>1/14/2021</b>	SeqNo: <b>2634142</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-57537</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>57537</b>	RunNo: <b>74618</b>								
Prep Date: <b>1/14/2021</b>	Analysis Date: <b>1/14/2021</b>	SeqNo: <b>2634143</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.2	90	110			

Sample ID: <b>MB-57558</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>57558</b>	RunNo: <b>74648</b>								
Prep Date: <b>1/15/2021</b>	Analysis Date: <b>1/15/2021</b>	SeqNo: <b>2635328</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-57558</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>57558</b>	RunNo: <b>74648</b>								
Prep Date: <b>1/15/2021</b>	Analysis Date: <b>1/15/2021</b>	SeqNo: <b>2635329</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	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
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2101346

18-Jan-21

**Client:** Safety & Environmental Solutions

**Project:** Devon Mesa Verde 6 Fed 2

Sample ID: <b>MB-57571</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>57571</b>	RunNo: <b>74671</b>								
Prep Date: <b>1/15/2021</b>	Analysis Date: <b>1/16/2021</b>	SeqNo: <b>2635376</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-57571</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>57571</b>	RunNo: <b>74671</b>								
Prep Date: <b>1/15/2021</b>	Analysis Date: <b>1/16/2021</b>	SeqNo: <b>2635377</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.1	90	110			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2101346

18-Jan-21

**Client:** Safety & Environmental Solutions

**Project:** Devon Mesa Verde 6 Fed 2

Sample ID: <b>LCS-57448</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>57448</b>	RunNo: <b>74564</b>								
Prep Date: <b>1/11/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2631924</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	10	50.00	0	121	68.9	141			
Surr: DNOP	5.9		5.000		117	30.4	154			

Sample ID: <b>MB-57448</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>57448</b>	RunNo: <b>74564</b>								
Prep Date: <b>1/11/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2631926</b>	Units: <b>mg/Kg</b>							
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	13		10.00		125	30.4	154			

Sample ID: <b>MB-57447</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>57447</b>	RunNo: <b>74585</b>								
Prep Date: <b>1/11/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2632945</b>	Units: <b>mg/Kg</b>							
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	10		10.00		104	30.4	154			

Sample ID: <b>LCS-57447</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>57447</b>	RunNo: <b>74585</b>								
Prep Date: <b>1/11/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2632946</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	108	68.9	141			
Surr: DNOP	4.8		5.000		96.0	30.4	154			

Sample ID: <b>2101346-010AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>AH 5 1ft</b>	Batch ID: <b>57447</b>	RunNo: <b>74585</b>								
Prep Date: <b>1/11/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2632948</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	9.1	45.70	0	86.7	15	184			
Surr: DNOP	3.6		4.570		78.5	30.4	154			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2101346

18-Jan-21

**Client:** Safety & Environmental Solutions

**Project:** Devon Mesa Verde 6 Fed 2

Sample ID: <b>2101346-010AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>AH 5 1ft</b>	Batch ID: <b>57447</b>	RunNo: <b>74585</b>								
Prep Date: <b>1/11/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2632949</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	9.7	48.50	0	105	15	184	25.3	23.9	R
Surr: DNOP	4.8		4.850		99.4	30.4	154	0	0	

Sample ID: <b>2101346-030AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>AH 19 2 ft</b>	Batch ID: <b>57448</b>	RunNo: <b>74564</b>								
Prep Date: <b>1/11/2021</b>	Analysis Date: <b>1/13/2021</b>	SeqNo: <b>2632998</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	9.0	45.00	3.842	106	15	184			
Surr: DNOP	4.5		4.500		100	30.4	154			

Sample ID: <b>2101346-030AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>AH 19 2 ft</b>	Batch ID: <b>57448</b>	RunNo: <b>74564</b>								
Prep Date: <b>1/11/2021</b>	Analysis Date: <b>1/13/2021</b>	SeqNo: <b>2632999</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	75	9.3	46.73	3.842	153	15	184	37.6	23.9	R
Surr: DNOP	7.4		4.673		159	30.4	154	0	0	S

Sample ID: <b>LCS-57446</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>57446</b>	RunNo: <b>74564</b>								
Prep Date: <b>1/11/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2633015</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	10	50.00	0	119	68.9	141			
Surr: DNOP	5.5		5.000		110	30.4	154			

Sample ID: <b>MB-57446</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>57446</b>	RunNo: <b>74564</b>								
Prep Date: <b>1/11/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2633016</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		116	30.4	154			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2101346

18-Jan-21

**Client:** Safety & Environmental Solutions

**Project:** Devon Mesa Verde 6 Fed 2

Sample ID: <b>MB-57483</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>57483</b>	RunNo: <b>74586</b>								
Prep Date: <b>1/12/2021</b>	Analysis Date: <b>1/13/2021</b>	SeqNo: <b>2633674</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		121	30.4	154			

Sample ID: <b>LCS-57483</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>57483</b>	RunNo: <b>74586</b>								
Prep Date: <b>1/12/2021</b>	Analysis Date: <b>1/13/2021</b>	SeqNo: <b>2633675</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	105	68.9	141			
Surr: DNOP	5.4		5.000		108	30.4	154			

Sample ID: <b>2101346-049AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>H-24 West</b>	Batch ID: <b>57483</b>	RunNo: <b>74586</b>								
Prep Date: <b>1/12/2021</b>	Analysis Date: <b>1/13/2021</b>	SeqNo: <b>2633677</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.1	45.54	3.486	87.8	15	184			
Surr: DNOP	3.9		4.554		85.3	30.4	154			

Sample ID: <b>2101346-049AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>H-24 West</b>	Batch ID: <b>57483</b>	RunNo: <b>74586</b>								
Prep Date: <b>1/12/2021</b>	Analysis Date: <b>1/13/2021</b>	SeqNo: <b>2633678</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	9.9	49.31	3.486	101	15	184	20.4	23.9	
Surr: DNOP	5.2		4.931		106	30.4	154	0	0	

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2101346

18-Jan-21

**Client:** Safety & Environmental Solutions

**Project:** Devon Mesa Verde 6 Fed 2

Sample ID: <b>mb-57440</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>57440</b>	RunNo: <b>74578</b>								
Prep Date: <b>1/10/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2632245</b>	Units: <b>mg/Kg</b>							
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		105	75.3	105			

Sample ID: <b>lcs-57440</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>57440</b>	RunNo: <b>74578</b>								
Prep Date: <b>1/10/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2632246</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.7	72.5	106			
Surr: BFB	1100		1000		112	75.3	105			S

Sample ID: <b>2101346-012ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>AH 6 1ft</b>	Batch ID: <b>57440</b>	RunNo: <b>74578</b>								
Prep Date: <b>1/10/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2632249</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.4	61.3	114			
Surr: BFB	1100		1000		112	75.3	105			S

Sample ID: <b>2101346-012amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>AH 6 1ft</b>	Batch ID: <b>57440</b>	RunNo: <b>74578</b>								
Prep Date: <b>1/10/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2632250</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.65	0	91.6	61.3	114	3.38	20	
Surr: BFB	1100		986.2		112	75.3	105	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2101346

18-Jan-21

**Client:** Safety & Environmental Solutions

**Project:** Devon Mesa Verde 6 Fed 2

Sample ID: <b>mb-57440</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>57440</b>	RunNo: <b>74578</b>								
Prep Date: <b>1/10/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2632292</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID: <b>LCS-57440</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>57440</b>	RunNo: <b>74578</b>								
Prep Date: <b>1/10/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2632293</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.2	80	120			
Toluene	0.98	0.050	1.000	0	97.7	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.8	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	80	120			

Sample ID: <b>2101346-011ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>AH 6 surface</b>	Batch ID: <b>57440</b>	RunNo: <b>74578</b>								
Prep Date: <b>1/10/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2632295</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	0.9901	0.01338	92.2	76.3	120			
Toluene	0.97	0.050	0.9901	0.01625	96.8	78.5	120			
Ethylbenzene	0.98	0.050	0.9901	0.01824	97.1	78.1	124			
Xylenes, Total	3.0	0.099	2.970	0.08870	97.9	79.3	125			
Surr: 4-Bromofluorobenzene	1.0		0.9901		103	80	120			

Sample ID: <b>2101346-011amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>AH 6 surface</b>	Batch ID: <b>57440</b>	RunNo: <b>74578</b>								
Prep Date: <b>1/10/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2632296</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	0.9940	0.01338	92.2	76.3	120	0.343	20	
Toluene	0.97	0.050	0.9940	0.01625	95.8	78.5	120	0.614	20	
Ethylbenzene	0.97	0.050	0.9940	0.01824	95.7	78.1	124	1.11	20	
Xylenes, Total	3.0	0.099	2.982	0.08870	96.2	79.3	125	1.34	20	
Surr: 4-Bromofluorobenzene	1.0		0.9940		105	80	120	0	0	

**Qualifiers:**

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2101346

18-Jan-21

**Client:** Safety & Environmental Solutions

**Project:** Devon Mesa Verde 6 Fed 2

Sample ID: <b>Ics-57442</b>	SampType: <b>LCS4</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>BatchQC</b>	Batch ID: <b>57442</b>	RunNo: <b>74546</b>								
Prep Date: <b>1/10/2021</b>	Analysis Date: <b>1/11/2021</b>	SeqNo: <b>2631554</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	109	80	120			
Toluene	1.0	0.050	1.000	0	104	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.0	80	120			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.3	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.4	70	130			
Surr: Dibromofluoromethane	0.42		0.5000		84.0	70	130			
Surr: Toluene-d8	0.48		0.5000		96.7	70	130			

Sample ID: <b>mb-57442</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>PBS</b>	Batch ID: <b>57442</b>	RunNo: <b>74546</b>								
Prep Date: <b>1/10/2021</b>	Analysis Date: <b>1/11/2021</b>	SeqNo: <b>2631555</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.4	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		101	70	130			
Surr: Dibromofluoromethane	0.42		0.5000		84.4	70	130			
Surr: Toluene-d8	0.49		0.5000		98.7	70	130			

Sample ID: <b>2101346-031ams</b>	SampType: <b>MS4</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>AH 20 surface</b>	Batch ID: <b>57442</b>	RunNo: <b>74546</b>								
Prep Date: <b>1/10/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2631557</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	0.9911	0	124	71.1	115			S
Toluene	1.1	0.050	0.9911	0.01029	111	79.6	132			
Ethylbenzene	1.2	0.050	0.9911	0.01643	119	83.8	134			
Xylenes, Total	3.3	0.099	2.973	0.06544	108	82.4	132			
Surr: 1,2-Dichloroethane-d4	0.48		0.4955		97.7	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.4955		95.9	70	130			
Surr: Dibromofluoromethane	0.45		0.4955		90.2	70	130			
Surr: Toluene-d8	0.47		0.4955		95.8	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2101346

18-Jan-21

**Client:** Safety & Environmental Solutions

**Project:** Devon Mesa Verde 6 Fed 2

Sample ID: <b>2101346-031amsd</b>	SampType: <b>MSD4</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>AH 20 surface</b>	Batch ID: <b>57442</b>	RunNo: <b>74546</b>								
Prep Date: <b>1/10/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2631558</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	0.9980	0	120	71.1	115	2.67	20	S
Toluene	1.1	0.050	0.9980	0.01029	108	79.6	132	1.66	20	
Ethylbenzene	1.1	0.050	0.9980	0.01643	110	83.8	134	7.50	20	
Xylenes, Total	3.2	0.10	2.994	0.06544	105	82.4	132	2.31	20	
Surr: 1,2-Dichloroethane-d4	0.49		0.4990		99.2	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.50		0.4990		100	70	130	0	0	
Surr: Dibromofluoromethane	0.47		0.4990		93.2	70	130	0	0	
Surr: Toluene-d8	0.47		0.4990		94.1	70	130	0	0	

Sample ID: <b>ics-57439</b>	SampType: <b>LCS4</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>BatchQC</b>	Batch ID: <b>57439</b>	RunNo: <b>74552</b>								
Prep Date: <b>1/9/2021</b>	Analysis Date: <b>1/11/2021</b>	SeqNo: <b>2631691</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	108	80	120			
Toluene	1.1	0.050	1.000	0	106	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.4	0.10	3.000	0	113	80	120			
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		103	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		104	70	130			
Surr: Dibromofluoromethane	0.56		0.5000		111	70	130			
Surr: Toluene-d8	0.49		0.5000		97.8	70	130			

Sample ID: <b>mb-57439</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>PBS</b>	Batch ID: <b>57439</b>	RunNo: <b>74552</b>								
Prep Date: <b>1/9/2021</b>	Analysis Date: <b>1/11/2021</b>	SeqNo: <b>2631692</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.51		0.5000		101	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130			
Surr: Dibromofluoromethane	0.56		0.5000		112	70	130			
Surr: Toluene-d8	0.49		0.5000		98.2	70	130			

**Qualifiers:**

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

# QC SUMMARY REPORT

WO#: 2101346

## Hall Environmental Analysis Laboratory, Inc.

18-Jan-21

**Client:** Safety & Environmental Solutions

**Project:** Devon Mesa Verde 6 Fed 2

Sample ID: <b>ics-57467</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>57467</b>	RunNo: <b>74592</b>								
Prep Date: <b>1/11/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2633072</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	112	70	130			
Toluene	1.0	0.050	1.000	0	105	70	130			
Surr: 1,2-Dichloroethane-d4	0.53		0.5000		107	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		103	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		97.8	70	130			
Surr: Toluene-d8	0.49		0.5000		97.6	70	130			

Sample ID: <b>mb-57467</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>PBS</b>	Batch ID: <b>57467</b>	RunNo: <b>74592</b>								
Prep Date: <b>1/11/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2633073</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		103	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		101	70	130			
Surr: Dibromofluoromethane	0.55		0.5000		109	70	130			
Surr: Toluene-d8	0.51		0.5000		102	70	130			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2101346

18-Jan-21

**Client:** Safety & Environmental Solutions

**Project:** Devon Mesa Verde 6 Fed 2

Sample ID: <b>Ics-57442</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>57442</b>		RunNo: <b>74546</b>							
Prep Date: <b>1/10/2021</b>	Analysis Date: <b>1/11/2021</b>		SeqNo: <b>2631589</b>	Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.9	70	130			
Surr: BFB	470		500.0		94.6	70	130			

Sample ID: <b>2101346-032ams</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>							
Client ID: <b>AH 20 1 ft</b>	Batch ID: <b>57442</b>		RunNo: <b>74546</b>							
Prep Date: <b>1/10/2021</b>	Analysis Date: <b>1/12/2021</b>		SeqNo: <b>2631593</b>	Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.61	0	97.0	49.2	122			
Surr: BFB	430		492.1		87.0	70	130			

Sample ID: <b>2101346-032amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>							
Client ID: <b>AH 20 1 ft</b>	Batch ID: <b>57442</b>		RunNo: <b>74546</b>							
Prep Date: <b>1/10/2021</b>	Analysis Date: <b>1/12/2021</b>		SeqNo: <b>2631594</b>	Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.51	0	98.0	49.2	122	0.715	20	
Surr: BFB	460		490.2		92.9	70	130	0	0	

Sample ID: <b>mb-57442</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>57442</b>		RunNo: <b>74546</b>							
Prep Date: <b>1/10/2021</b>	Analysis Date: <b>1/11/2021</b>		SeqNo: <b>2631613</b>	Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	440		500.0		87.4	70	130			

Sample ID: <b>Ics-57439</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>57439</b>		RunNo: <b>74552</b>							
Prep Date: <b>1/9/2021</b>	Analysis Date: <b>1/11/2021</b>		SeqNo: <b>2631723</b>	Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.0	70	130			
Surr: BFB	530		500.0		106	70	130			

Sample ID: <b>mb-57439</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>57439</b>		RunNo: <b>74552</b>							
Prep Date: <b>1/9/2021</b>	Analysis Date: <b>1/11/2021</b>		SeqNo: <b>2631724</b>	Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2101346

18-Jan-21

**Client:** Safety & Environmental Solutions

**Project:** Devon Mesa Verde 6 Fed 2

Sample ID: <b>mb-57439</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>57439</b>	RunNo: <b>74552</b>								
Prep Date: <b>1/9/2021</b>	Analysis Date: <b>1/11/2021</b>	SeqNo: <b>2631724</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	530		500.0		105	70	130			

Sample ID: <b>lcs-57467</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>57467</b>	RunNo: <b>74592</b>								
Prep Date: <b>1/11/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2633078</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.5	70	130			
Surr: BFB	510		500.0		102	70	130			

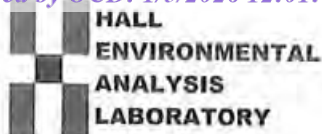
Sample ID: <b>mb-57467</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>57467</b>	RunNo: <b>74592</b>								
Prep Date: <b>1/11/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2633079</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	540		500.0		108	70	130			

Sample ID: <b>2101346-051ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>H-26 South</b>	Batch ID: <b>57467</b>	RunNo: <b>74592</b>								
Prep Date: <b>1/11/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2633081</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.7	23.41	0	91.0	49.2	122			
Surr: BFB	500		468.2		108	70	130			

Sample ID: <b>2101346-051amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>H-26 South</b>	Batch ID: <b>57467</b>	RunNo: <b>74592</b>								
Prep Date: <b>1/11/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2633082</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	23.92	0	92.8	49.2	122	4.13	20	
Surr: BFB	510		478.5		106	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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

Sample Log-In Check List

Client Name: Safety & Environmental Solutions Work Order Number: 2101346 RcptNo: 1

Received By: Emily Mocho 1/9/2021 8:40:00 AM

Completed By: Emily Mocho 1/9/2021 9:41:32 AM

Reviewed By: [Signature] 1/9/2021

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [ ] Not Present [ ]
2. How was the sample delivered? Client

Log In

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

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [checked]

Person Notified: [ ] Date: [ ]
By Whom: [ ] Via: [ ] eMail [ ] Phone [ ] Fax [ ] In Person [ ]
Regarding: [ ]
Client Instructions: [ ]

16. Additional remarks:

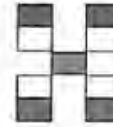
17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 0.8, Good, [ ], [ ], [ ], [ ]

# Chain-of-Custody Record

Client: *Safety & Environmental Solution*  
 Mailing Address: *703 E. Clinton Hobbs NM 88240*  
 Phone #: *575-397-0910*  
 email or Fax#: \_\_\_\_\_  
 QA/QC Package:  
 Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  NELAC  Other  
 EDD (Type)

Turn-Around Time: *5 Days*  
 Standard  Rush  
 Project Name: *Devon*  
*Mesa Verde 6 Feb 2*  
 Project #: *Dev-21-001*  
 Project Manager: *Allen, Bob*  
 Sampler: *Son Jony*  
 On Ice:  Yes  No  
 # of Coolers: *1*  
 Cooler Temp (including CF): *1.0-0.2-0.8 (°C)*



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com  
 4901 Hawkins NE - Albuquerque, NM 87109  
 Tel. 505-345-3975 Fax 505-345-4107

### Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / 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	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
<i>01/05</i>	<i>0910</i>	<i>S</i>	<i>AH-1 Surface</i>	<i>1</i>	<i>Freeze</i>	<i>2101346</i>	<i>X</i>	<i>X</i>								<i>X</i>
	<i>0915</i>	<i>S</i>	<i>AH-1 I/F</i>	<i>1</i>	<i>Freeze</i>	<i>002</i>										
	<i>0925</i>	<i>S</i>	<i>AH-2 Surface</i>	<i>1</i>		<i>003</i>										
	<i>0950</i>	<i>S</i>	<i>AH-2 I/F</i>	<i>1</i>		<i>004</i>										
	<i>0955</i>	<i>S</i>	<i>AH-3 Surface</i>	<i>1</i>		<i>005</i>										
	<i>1020</i>	<i>S</i>	<i>AH-3 I/F</i>	<i>1</i>		<i>006</i>										
	<i>1025</i>	<i>S</i>	<i>AH-4 Surface</i>	<i>1</i>		<i>007</i>										
	<i>1040</i>	<i>S</i>	<i>AH-4 I/F</i>	<i>1</i>		<i>008</i>										
	<i>1045</i>	<i>S</i>	<i>AH-5 Surface</i>	<i>1</i>		<i>009</i>										
	<i>1110</i>	<i>S</i>	<i>AH-5 I/F</i>	<i>1</i>		<i>010</i>										
	<i>1130</i>	<i>S</i>	<i>AH-6 Surface</i>	<i>1</i>		<i>011</i>										
<i>01/05</i>	<i>1135</i>	<i>S</i>	<i>AH-6 I/F</i>	<i>1</i>		<i>012</i>	<i>X</i>									<i>X</i>

Date: *01/08* Time: *1600* Relinquished by: *Son Jony*  
 Received by: *Adriano* Via: \_\_\_\_\_ Date: *1/8/21* Time: *1645*  
 Date: *1/8/20* Time: *1900* Relinquished by: *Adriano*  
 Received by: *EM Courier* Via: \_\_\_\_\_ Date: *11/9/21* Time: *840*

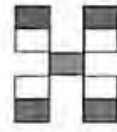
Remarks: *Bill Devon Direct*

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

# Chain-of-Custody Record

Client: Safety & Environmental Solutions  
 Mailing Address: 703 E Clinton  
Albuquerque NM 88240  
 Phone #: 575-397-0510  
 email or Fax#: \_\_\_\_\_  
 QA/QC Package:  
 Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  
 NELAC  Other \_\_\_\_\_  
 EDD (Type) \_\_\_\_\_

Turn-Around Time: to Dave  
 Standard  Rush  
 Project Name: Devon  
Mercede 6 Feb 2  
 Project #: DEV-21-001  
 Project Manager: Allen, Bob  
 Sampler: Sen Jerry  
 On Ice:  Yes  No  
 # of Coolers: \_\_\_\_\_  
 Cooler Temp (including CF): \_\_\_\_\_ (°C)



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com  
 4901 Hawkins NE - Albuquerque, NM 87109  
 Tel. 505-345-3975 Fax 505-345-4107

### Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / 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	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Remarks			
																	2101346			
01/05	1200	S	AH-6 3Fr	1	Ice	013	X	X												
	1215	S	AH-7 Super	1	Next	014														
	1235	S	AH-7 1Fr	1		015														
	1300	S	AH-7 2Fr	1		016														
	1320	S	AH-8 Super	1		017														
	1345	S	AH-8 1Fr	1		018														
	1400	S	AH-8 2Fr	1		019														
	1415	S	AH-9 Super	1		020														
	1440	S	AH-9 1Fr	1		021														
	1455	S	AH-9 2Fr	1		022														
	1500	S	AH-10 Super	1		023														
01/05	1510	S	AH-10 1Fr	1		024	X	X												

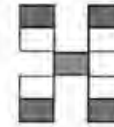
Date: 01/09 Time: 1500 Relinquished by: Sen Jerry  
 Received by: Mummies Via: \_\_\_\_\_ Date: 1/8/21 Time: 1645  
 Date: 1/8/20 Time: 1900 Relinquished by: Allen  
 Received by: Sen courier Via: \_\_\_\_\_ Date: 1/9/21 Time: 840

Remarks: Bill Devon Direct.

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

# Chain-of-Custody Record

Turn-Around Time: 5 days  
 Standard  Rush  
 Project Name: Devon  
 Mess Verde 6 Feb 2  
 Project #: DEV-21-001



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: Safety & Environmental Solutions  
 Mailing Address: 703 E. Chiswick Hobbs N.M. 88240  
 Phone #: 575-397-0570  
 email or Fax#: \_\_\_\_\_  
 QA/QC Package:  
 Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  NELAC  Other \_\_\_\_\_  
 EDD (Type) \_\_\_\_\_

Project Manager: Allen, Bob  
 Sampler: Son Jerry  
 On Ice:  Yes  No  
 # of Coolers: \_\_\_\_\_  
 Cooler Temp (including CF): \_\_\_\_\_ (°C)

### Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / 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	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	
01/06	0945	S	AH-18 Surface	1	Free	025	X	X									X
	0950	S	AH-18 1ft	1	None	026											
	1030	S	AH-18 3ft	1		027											
	1040	S	AH-19 Surface	1		028											
	1050	S	AH-19 1ft	1		029											
	1110	S	AH-19 2ft	1		030											
	1120	S	AH-20 Surface	1		031											
	1125	S	AH-20 1ft	1		032											
	1150	S	AH-20 2ft	1		033											
	1154	S	AH-11 Surface	1		034											
	1205	S	AH-11 1ft	1		035											
01/06	1230	S	AH-11 2ft	1		036	X	X									X

Date: 01/08 Time: 1600 Relinquished by: Son Jerry  
 Received by: [Signature] Via: [Signature] Date: 1/8/21 Time: 1645  
 Date: 1/8/21 Time: 1900 Relinquished by: [Signature]  
 Received by: gm courier Via: gm courier Date: 1/9/21 Time: 840

Remarks: Bill Devon Direct.

# Chain-of-Custody Record

Turn-Around Time: 5 Days

Client: Safety & Environmental Solutions

Standard  Rush

Project Name: Devon Mesa Verde 6-Fed 2

Mailing Address: 703 E. Clunta  
Holops NM 88240

Project #: DW-21-001

Phone #: 575-397-0510

Project Manager: Allen Rob

email or Fax#:

QA/QC Package:  
 Standard  Level 4 (Full Validation)

Accreditation:  Az Compliance  
 NELAC  Other

EDD (Type)

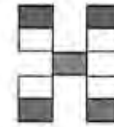
Sampler: Son Jany

On Ice:  Yes  No

# of Coolers:

Cooler Temp (including CP): \_\_\_\_\_ (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
01/07	0920	S	AH-15 Super	1	Fox	037
	0930	S	AH-15 1F	1	Net	038
	0955	S	AH-15 2F	1		039
	1000	S	AH-16 Super	1		040
	1010	S	AH-16 1F	1		041
	1035	S	AH-16 2F	1		042
	1045	S	AH-17 Super	1		043
	1100	S	AH-17 1F	1		044
	1120	S	AH-17 2F	1		045
	1230	S	H-21 North	1		046
	1245	S	H-22 North	1		047
01/07	1300	S	H-23 West	1		048



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

### Analysis Request

BTEX / 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	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
X	X								Chlorides

Date: 01/08 Time: 1600 Relinquished by: Son Jany

Received by: Almiraj Date: 1/8/21 Time: 1645

Date: 1/8/21 Time: 1900 Relinquished by: Almiraj

Received by: Em courier Date: 1/9/21 Time: 840

Remarks:

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

# Chain-of-Custody Record

Client: Safety Environmental Solutions

Mailing Address: 703 E. Clifton Hobbs N.M 89240

Phone #: 575-397-0510

email or Fax#:

QA/QC Package:  
 Standard       Level 4 (Full Validation)

Accreditation:     Az Compliance  
 NELAC       Other \_\_\_\_\_

EDD (Type) \_\_\_\_\_

Turn-Around Time: 5 days

Standard     Rush

Project Name: Devon Mesa Verde 6 Feb 2

Project #: DEV-21-001

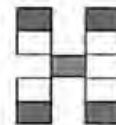
Project Manager: Allen Bob

Sampler: Sa Jun

On Ice:     Yes     No

# of Coolers: 1

Cooler Temp (including CP): 2.4 - 4.2 = 2.2 (°C)



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com  
 4901 Hawkins NE - Albuquerque, NM 87109  
 Tel. 505-345-3975    Fax 505-345-4107

### Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / 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	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	
01/07	1310	S	H-24 WEST	1	Tel	049	X	X									X
1	1325	S	H-25 South	1	Need	050											
	1335	S	H-26 South	1		051											
	1350	S	H-27 EAST	1		052											
01/07	1410	S	H-28 EAST	1		053	X	X									X

Date: <u>01/08</u>	Time: <u>1600</u>	Relinquished by: <u>Sa Jun</u>	Received by: <u>Allen Bob</u>	Via: _____	Date: <u>1/8/21</u>	Time: <u>1645</u>
Date: <u>1/8/21</u>	Time: <u>1900</u>	Relinquished by: <u>Allen Bob</u>	Received by: <u>EM Courier</u>	Via: _____	Date: <u>1/9/21</u>	Time: <u>840</u>

Remarks:

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

EM 119121



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

January 15, 2021

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

RE: Devon Mesa Verde 6 Fed 2

OrderNo.: 2101345

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 9 sample(s) on 1/9/2021 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order **2101345**

Date Reported: **1/15/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 12 Surface

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/6/2021 12:40:00 PM

**Lab ID:** 2101345-001

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	3000	150		mg/Kg	50	1/14/2021 5:48:52 AM	57517
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2021 9:31:28 PM	57439
Surr: BFB	106	70-130		%Rec	1	1/11/2021 9:31:28 PM	57439
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/12/2021 7:05:12 PM	57446
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/12/2021 7:05:12 PM	57446
Surr: DNOP	133	30.4-154		%Rec	1	1/12/2021 7:05:12 PM	57446
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/11/2021 9:31:28 PM	57439
Toluene	ND	0.049		mg/Kg	1	1/11/2021 9:31:28 PM	57439
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2021 9:31:28 PM	57439
Xylenes, Total	ND	0.099		mg/Kg	1	1/11/2021 9:31:28 PM	57439
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	1/11/2021 9:31:28 PM	57439
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	1/11/2021 9:31:28 PM	57439
Surr: Dibromofluoromethane	107	70-130		%Rec	1	1/11/2021 9:31:28 PM	57439
Surr: Toluene-d8	100	70-130		%Rec	1	1/11/2021 9:31:28 PM	57439

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

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

**Analytical Report**

Lab Order **2101345**

Date Reported: **1/15/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 12 1 ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/6/2021 12:50:00 PM

**Lab ID:** 2101345-002

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	960	61		mg/Kg	20	1/13/2021 3:57:28 PM	57517
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/11/2021 10:57:17 PM	57439
Surr: BFB	107	70-130		%Rec	1	1/11/2021 10:57:17 PM	57439
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/12/2021 7:29:09 PM	57446
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/12/2021 7:29:09 PM	57446
Surr: DNOP	119	30.4-154		%Rec	1	1/12/2021 7:29:09 PM	57446
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/11/2021 10:57:17 PM	57439
Toluene	ND	0.050		mg/Kg	1	1/11/2021 10:57:17 PM	57439
Ethylbenzene	ND	0.050		mg/Kg	1	1/11/2021 10:57:17 PM	57439
Xylenes, Total	ND	0.099		mg/Kg	1	1/11/2021 10:57:17 PM	57439
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	1/11/2021 10:57:17 PM	57439
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	1/11/2021 10:57:17 PM	57439
Surr: Dibromofluoromethane	111	70-130		%Rec	1	1/11/2021 10:57:17 PM	57439
Surr: Toluene-d8	100	70-130		%Rec	1	1/11/2021 10:57:17 PM	57439

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

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

**Analytical Report**

Lab Order **2101345**

Date Reported: **1/15/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 12 2 ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/6/2021 1:10:00 PM

**Lab ID:** 2101345-003

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	1/13/2021 4:09:52 PM	57517
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2021 2:16:48 AM	57439
Surr: BFB	106	70-130		%Rec	1	1/12/2021 2:16:48 AM	57439
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/12/2021 7:53:03 PM	57446
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/12/2021 7:53:03 PM	57446
Surr: DNOP	96.9	30.4-154		%Rec	1	1/12/2021 7:53:03 PM	57446
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 2:16:48 AM	57439
Toluene	ND	0.050		mg/Kg	1	1/12/2021 2:16:48 AM	57439
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2021 2:16:48 AM	57439
Xylenes, Total	ND	0.099		mg/Kg	1	1/12/2021 2:16:48 AM	57439
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	1/12/2021 2:16:48 AM	57439
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	1/12/2021 2:16:48 AM	57439
Surr: Dibromofluoromethane	111	70-130		%Rec	1	1/12/2021 2:16:48 AM	57439
Surr: Toluene-d8	101	70-130		%Rec	1	1/12/2021 2:16:48 AM	57439

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

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

**Analytical Report**

Lab Order **2101345**

Date Reported: **1/15/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 13 Surface

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/6/2021 1:20:00 PM

**Lab ID:** 2101345-004

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	7600	300		mg/Kg	100	1/14/2021 6:01:17 AM	57517
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2021 2:45:14 AM	57439
Surr: BFB	107	70-130		%Rec	1	1/12/2021 2:45:14 AM	57439
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	120	9.6		mg/Kg	1	1/12/2021 8:16:58 PM	57446
Motor Oil Range Organics (MRO)	63	48		mg/Kg	1	1/12/2021 8:16:58 PM	57446
Surr: DNOP	116	30.4-154		%Rec	1	1/12/2021 8:16:58 PM	57446
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 2:45:14 AM	57439
Toluene	ND	0.050		mg/Kg	1	1/12/2021 2:45:14 AM	57439
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2021 2:45:14 AM	57439
Xylenes, Total	ND	0.10		mg/Kg	1	1/12/2021 2:45:14 AM	57439
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	1/12/2021 2:45:14 AM	57439
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	1/12/2021 2:45:14 AM	57439
Surr: Dibromofluoromethane	106	70-130		%Rec	1	1/12/2021 2:45:14 AM	57439
Surr: Toluene-d8	99.8	70-130		%Rec	1	1/12/2021 2:45:14 AM	57439

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

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

**Analytical Report**

Lab Order **2101345**

Date Reported: **1/15/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 13 1 ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/6/2021 1:35:00 PM

**Lab ID:** 2101345-005

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	550	60		mg/Kg	20	1/13/2021 4:34:41 PM	57517
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2021 3:13:38 AM	57439
Surr: BFB	107	70-130		%Rec	1	1/12/2021 3:13:38 AM	57439
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/12/2021 8:40:45 PM	57446
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/12/2021 8:40:45 PM	57446
Surr: DNOP	116	30.4-154		%Rec	1	1/12/2021 8:40:45 PM	57446
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 3:13:38 AM	57439
Toluene	ND	0.050		mg/Kg	1	1/12/2021 3:13:38 AM	57439
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2021 3:13:38 AM	57439
Xylenes, Total	ND	0.10		mg/Kg	1	1/12/2021 3:13:38 AM	57439
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	1/12/2021 3:13:38 AM	57439
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	1/12/2021 3:13:38 AM	57439
Surr: Dibromofluoromethane	113	70-130		%Rec	1	1/12/2021 3:13:38 AM	57439
Surr: Toluene-d8	101	70-130		%Rec	1	1/12/2021 3:13:38 AM	57439

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

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

**Analytical Report**

Lab Order **2101345**

Date Reported: **1/15/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 13 2 ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/6/2021 2:00:00 PM

**Lab ID:** 2101345-006

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	1/13/2021 11:36:36 PM	57529
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2021 3:42:11 AM	57439
Surr: BFB	103	70-130		%Rec	1	1/12/2021 3:42:11 AM	57439
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/12/2021 9:04:44 PM	57446
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/12/2021 9:04:44 PM	57446
Surr: DNOP	116	30.4-154		%Rec	1	1/12/2021 9:04:44 PM	57446
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 3:42:11 AM	57439
Toluene	ND	0.050		mg/Kg	1	1/12/2021 3:42:11 AM	57439
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2021 3:42:11 AM	57439
Xylenes, Total	ND	0.10		mg/Kg	1	1/12/2021 3:42:11 AM	57439
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	1/12/2021 3:42:11 AM	57439
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	1/12/2021 3:42:11 AM	57439
Surr: Dibromofluoromethane	114	70-130		%Rec	1	1/12/2021 3:42:11 AM	57439
Surr: Toluene-d8	98.0	70-130		%Rec	1	1/12/2021 3:42:11 AM	57439

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

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

**Analytical Report**

Lab Order **2101345**

Date Reported: **1/15/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 14 Surface

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/6/2021 2:05:00 PM

**Lab ID:** 2101345-007

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	5200	150		mg/Kg	50	1/14/2021 2:26:36 PM	57529
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/12/2021 4:10:45 AM	57439
Surr: BFB	104	70-130		%Rec	1	1/12/2021 4:10:45 AM	57439
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	1/12/2021 9:28:32 PM	57446
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/12/2021 9:28:32 PM	57446
Surr: DNOP	108	30.4-154		%Rec	1	1/12/2021 9:28:32 PM	57446
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.024		mg/Kg	1	1/12/2021 4:10:45 AM	57439
Toluene	ND	0.048		mg/Kg	1	1/12/2021 4:10:45 AM	57439
Ethylbenzene	ND	0.048		mg/Kg	1	1/12/2021 4:10:45 AM	57439
Xylenes, Total	ND	0.097		mg/Kg	1	1/12/2021 4:10:45 AM	57439
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	1/12/2021 4:10:45 AM	57439
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	1/12/2021 4:10:45 AM	57439
Surr: Dibromofluoromethane	112	70-130		%Rec	1	1/12/2021 4:10:45 AM	57439
Surr: Toluene-d8	100	70-130		%Rec	1	1/12/2021 4:10:45 AM	57439

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

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

**Analytical Report**

Lab Order **2101345**

Date Reported: **1/15/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 14 1 ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/6/2021 2:15:00 PM

**Lab ID:** 2101345-008

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	960	60		mg/Kg	20	1/14/2021 12:01:24 AM	57529
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/12/2021 4:39:11 AM	57439
Surr: BFB	106	70-130		%Rec	1	1/12/2021 4:39:11 AM	57439
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	1/12/2021 9:52:33 PM	57446
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	1/12/2021 9:52:33 PM	57446
Surr: DNOP	124	30.4-154		%Rec	1	1/12/2021 9:52:33 PM	57446
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 4:39:11 AM	57439
Toluene	ND	0.049		mg/Kg	1	1/12/2021 4:39:11 AM	57439
Ethylbenzene	ND	0.049		mg/Kg	1	1/12/2021 4:39:11 AM	57439
Xylenes, Total	ND	0.098		mg/Kg	1	1/12/2021 4:39:11 AM	57439
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	1/12/2021 4:39:11 AM	57439
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	1/12/2021 4:39:11 AM	57439
Surr: Dibromofluoromethane	114	70-130		%Rec	1	1/12/2021 4:39:11 AM	57439
Surr: Toluene-d8	98.5	70-130		%Rec	1	1/12/2021 4:39:11 AM	57439

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

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

**Analytical Report**

Lab Order **2101345**

Date Reported: **1/15/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH 14 3 ft

**Project:** Devon Mesa Verde 6 Fed 2

**Collection Date:** 1/6/2021 2:50:00 PM

**Lab ID:** 2101345-009

**Matrix:** SOIL

**Received Date:** 1/9/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	1/14/2021 12:13:49 AM	57529
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2021 5:07:45 AM	57439
Surr: BFB	105	70-130		%Rec	1	1/12/2021 5:07:45 AM	57439
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/12/2021 10:16:24 PM	57446
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/12/2021 10:16:24 PM	57446
Surr: DNOP	124	30.4-154		%Rec	1	1/12/2021 10:16:24 PM	57446
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.025		mg/Kg	1	1/12/2021 5:07:45 AM	57439
Toluene	ND	0.050		mg/Kg	1	1/12/2021 5:07:45 AM	57439
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2021 5:07:45 AM	57439
Xylenes, Total	ND	0.099		mg/Kg	1	1/12/2021 5:07:45 AM	57439
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	1/12/2021 5:07:45 AM	57439
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	1/12/2021 5:07:45 AM	57439
Surr: Dibromofluoromethane	115	70-130		%Rec	1	1/12/2021 5:07:45 AM	57439
Surr: Toluene-d8	98.6	70-130		%Rec	1	1/12/2021 5:07:45 AM	57439

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2101345

15-Jan-21

**Client:** Safety & Environmental Solutions

**Project:** Devon Mesa Verde 6 Fed 2

Sample ID: <b>MB-57517</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>57517</b>	RunNo: <b>74587</b>								
Prep Date: <b>1/13/2021</b>	Analysis Date: <b>1/13/2021</b>	SeqNo: <b>2633298</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-57517</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>57517</b>	RunNo: <b>74587</b>								
Prep Date: <b>1/13/2021</b>	Analysis Date: <b>1/13/2021</b>	SeqNo: <b>2633299</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.9	90	110			

Sample ID: <b>MB-57529</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>57529</b>	RunNo: <b>74587</b>								
Prep Date: <b>1/13/2021</b>	Analysis Date: <b>1/13/2021</b>	SeqNo: <b>2633358</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-57529</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>57529</b>	RunNo: <b>74587</b>								
Prep Date: <b>1/13/2021</b>	Analysis Date: <b>1/13/2021</b>	SeqNo: <b>2633359</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.1	90	110			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2101345

15-Jan-21

**Client:** Safety & Environmental Solutions

**Project:** Devon Mesa Verde 6 Fed 2

Sample ID: <b>LCS-57448</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>57448</b>	RunNo: <b>74564</b>								
Prep Date: <b>1/11/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2631924</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.9		5.000		117	30.4	154			

Sample ID: <b>MB-57448</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>57448</b>	RunNo: <b>74564</b>								
Prep Date: <b>1/11/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2631926</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	13		10.00		125	30.4	154			

Sample ID: <b>LCS-57446</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>57446</b>	RunNo: <b>74564</b>								
Prep Date: <b>1/11/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2633015</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	10	50.00	0	119	68.9	141			
Surr: DNOP	5.5		5.000		110	30.4	154			

Sample ID: <b>MB-57446</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>57446</b>	RunNo: <b>74564</b>								
Prep Date: <b>1/11/2021</b>	Analysis Date: <b>1/12/2021</b>	SeqNo: <b>2633016</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		116	30.4	154			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2101345

15-Jan-21

**Client:** Safety & Environmental Solutions

**Project:** Devon Mesa Verde 6 Fed 2

Sample ID: <b>Ics-57439</b>	SampType: <b>LCS4</b>		TestCode: <b>EPA Method 8260B: Volatiles Short List</b>							
Client ID: <b>BatchQC</b>	Batch ID: <b>57439</b>		RunNo: <b>74552</b>							
Prep Date: <b>1/9/2021</b>	Analysis Date: <b>1/11/2021</b>		SeqNo: <b>2631691</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	108	80	120			
Toluene	1.1	0.050	1.000	0	106	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.4	0.10	3.000	0	113	80	120			
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		103	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		104	70	130			
Surr: Dibromofluoromethane	0.56		0.5000		111	70	130			
Surr: Toluene-d8	0.49		0.5000		97.8	70	130			

Sample ID: <b>mb-57439</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8260B: Volatiles Short List</b>							
Client ID: <b>PBS</b>	Batch ID: <b>57439</b>		RunNo: <b>74552</b>							
Prep Date: <b>1/9/2021</b>	Analysis Date: <b>1/11/2021</b>		SeqNo: <b>2631692</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.51		0.5000		101	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130			
Surr: Dibromofluoromethane	0.56		0.5000		112	70	130			
Surr: Toluene-d8	0.49		0.5000		98.2	70	130			

Sample ID: <b>2101345-001ams</b>	SampType: <b>MS4</b>		TestCode: <b>EPA Method 8260B: Volatiles Short List</b>							
Client ID: <b>AH 12 Surface</b>	Batch ID: <b>57439</b>		RunNo: <b>74552</b>							
Prep Date: <b>1/9/2021</b>	Analysis Date: <b>1/11/2021</b>		SeqNo: <b>2631698</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9872	0	107	71.1	115			
Toluene	1.0	0.049	0.9872	0	106	79.6	132			
Ethylbenzene	1.0	0.049	0.9872	0	106	83.8	134			
Xylenes, Total	3.3	0.099	2.962	0	112	82.4	132			
Surr: 1,2-Dichloroethane-d4	0.51		0.4936		104	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.4936		101	70	130			
Surr: Dibromofluoromethane	0.54		0.4936		109	70	130			
Surr: Toluene-d8	0.48		0.4936		98.2	70	130			

**Qualifiers:**

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2101345

15-Jan-21

**Client:** Safety & Environmental Solutions

**Project:** Devon Mesa Verde 6 Fed 2

Sample ID: <b>2101345-001amsd</b>	SampType: <b>MSD4</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>AH 12 Surface</b>	Batch ID: <b>57439</b>	RunNo: <b>74552</b>								
Prep Date: <b>1/9/2021</b>	Analysis Date: <b>1/11/2021</b>	SeqNo: <b>2631699</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9990	0	114	71.1	115	7.80	20	
Toluene	1.1	0.050	0.9990	0	106	79.6	132	1.61	20	
Ethylbenzene	1.1	0.050	0.9990	0	108	83.8	134	3.21	20	
Xylenes, Total	3.4	0.10	2.997	0	112	82.4	132	1.15	20	
Surr: 1,2-Dichloroethane-d4	0.53		0.4995		107	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.50		0.4995		101	70	130	0	0	
Surr: Dibromofluoromethane	0.55		0.4995		111	70	130	0	0	
Surr: Toluene-d8	0.49		0.4995		97.2	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

WO#: 2101345

## Hall Environmental Analysis Laboratory, Inc.

15-Jan-21

**Client:** Safety & Environmental Solutions

**Project:** Devon Mesa Verde 6 Fed 2

Sample ID: <b>ics-57439</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>57439</b>	RunNo: <b>74552</b>								
Prep Date: <b>1/9/2021</b>	Analysis Date: <b>1/11/2021</b>	SeqNo: <b>2631723</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.0	70	130			
Surr: BFB	530		500.0		106	70	130			

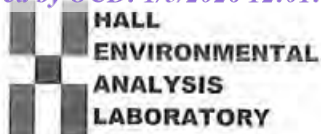
Sample ID: <b>mb-57439</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>57439</b>	RunNo: <b>74552</b>								
Prep Date: <b>1/9/2021</b>	Analysis Date: <b>1/11/2021</b>	SeqNo: <b>2631724</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	530		500.0		105	70	130			

Sample ID: <b>2101345-002ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>AH 12 1 ft</b>	Batch ID: <b>57439</b>	RunNo: <b>74552</b>								
Prep Date: <b>1/9/2021</b>	Analysis Date: <b>1/11/2021</b>	SeqNo: <b>2631732</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.44	0	91.6	49.2	122			
Surr: BFB	510		488.8		104	70	130			

Sample ID: <b>2101345-002amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>AH 12 1 ft</b>	Batch ID: <b>57439</b>	RunNo: <b>74552</b>								
Prep Date: <b>1/9/2021</b>	Analysis Date: <b>1/11/2021</b>	SeqNo: <b>2631733</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.58	0	92.4	49.2	122	1.41	20	
Surr: BFB	520		491.6		106	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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

### Sample Log-In Check List

Client Name: **Safety & Environmental Solutions**      Work Order Number: **2101345**      RcptNo: **1**

Received By: **Emily Mocho**      1/9/2021 8:40:00 AM

Completed By: **Emily Mocho**      1/9/2021 9:35:56 AM

Reviewed By: *DF 1/9/2021*

#### Chain of Custody

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

#### Log In

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

# of preserved bottles checked for pH:   
 (<2 or >12 unless noted)   
 Adjusted?   
 Checked by: *EM 1/9/21*

#### Special Handling (if applicable)

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

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

16. Additional remarks:

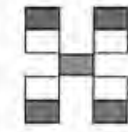
#### 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.8	Good				

# Chain-of-Custody Record

Client: Safety & Environmental Solutions  
 Mailing Address: 703 E. Clinton Hobbs N.M. 88240  
 Phone #: 575-397-0570  
 email or Fax#: \_\_\_\_\_  
 QA/QC Package:  
 Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  
 NELAC  Other \_\_\_\_\_  
 EDD (Type) \_\_\_\_\_

Turn-Around Time: 5 days  
 Standard  Rush  
 Project Name: Devon Mesa Verde 6 Feb 2  
 Project #: DEV-21-001  
 Project Manager: Allen, Bob  
 Sampler: Sn Juy  
 On Ice:  Yes  No  
 # of Coolers: 1  
 Cooler Temp (including CF): 2.2-0.2-2.2 (°C)



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com  
 4901 Hawkins NE - Albuquerque, NM 87109  
 Tel. 505-345-3975 Fax 505-345-4107

### Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. <sup>1/1/21</sup>
01/06	1240	S	AH-12 Surface	1	Ice	001
	1250	S	AH-12 1FT	1	Ice	002
	1310	S	AH-12 2FT	1		003
	1320	S	AH-13 Surface	1		004
	1335	S	AH-13 1FT	1		005
	1400	S	AH-13 2FT	1		006
	1405	S	AH-14 Surface	1		007
	1415	S	AH-14 1FT	1		008
01/06	1450	S	AH-14 3FT	1		009

BTEX / 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	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
X	X								X

Date: 01/08	Time: 1600	Relinquished by: <u>Sn Juy</u>	Received by: <u>Admiral</u>	Via: _____	Date: 1/8/21	Time: 1645	Remarks: <u>Bill Devon Direct</u>
Date: 1/8/21	Time: 1900	Relinquished by: <u>Admiral</u>	Received by: <u>Em Courier</u>	Via: _____	Date: 1/9/21	Time: 840	

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



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

February 23, 2021

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

RE: Devon Mesa Verde 6 Fed 2 Battery

OrderNo.: 2102813

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 17 sample(s) on 2/18/2021 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order **2102813**

Date Reported: **2/23/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-1 2.5ft Bottom

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/10/2021 11:00:00 AM

**Lab ID:** 2102813-001

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	260	59		mg/Kg	20	2/22/2021 11:26:30 AM	58233
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	11	9.7		mg/Kg	1	2/19/2021 10:08:59 AM	58191
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/19/2021 10:08:59 AM	58191
Surr: DNOP	110	70-130		%Rec	1	2/19/2021 10:08:59 AM	58191
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/19/2021 4:41:26 PM	58189
Surr: BFB	104	75.3-105		%Rec	1	2/19/2021 4:41:26 PM	58189
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/19/2021 4:41:26 PM	58189
Toluene	ND	0.049		mg/Kg	1	2/19/2021 4:41:26 PM	58189
Ethylbenzene	ND	0.049		mg/Kg	1	2/19/2021 4:41:26 PM	58189
Xylenes, Total	ND	0.098		mg/Kg	1	2/19/2021 4:41:26 PM	58189
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	2/19/2021 4:41:26 PM	58189

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

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

**Analytical Report**

Lab Order **2102813**

Date Reported: **2/23/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-2 2ft Bottom

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/10/2021 11:20:00 AM

**Lab ID:** 2102813-002

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	2/22/2021 12:28:32 PM	58233
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/19/2021 10:18:38 AM	58191
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/19/2021 10:18:38 AM	58191
Surr: DNOP	101	70-130		%Rec	1	2/19/2021 10:18:38 AM	58191
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/19/2021 5:05:34 PM	58189
Surr: BFB	103	75.3-105		%Rec	1	2/19/2021 5:05:34 PM	58189
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/19/2021 5:05:34 PM	58189
Toluene	ND	0.050		mg/Kg	1	2/19/2021 5:05:34 PM	58189
Ethylbenzene	ND	0.050		mg/Kg	1	2/19/2021 5:05:34 PM	58189
Xylenes, Total	ND	0.099		mg/Kg	1	2/19/2021 5:05:34 PM	58189
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	2/19/2021 5:05:34 PM	58189

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

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

**Analytical Report**

Lab Order **2102813**

Date Reported: **2/23/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-3 2ft Bottom

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/10/2021 12:00:00 PM

**Lab ID:** 2102813-003

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	2/22/2021 12:40:57 PM	58233
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/19/2021 10:28:19 AM	58191
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/19/2021 10:28:19 AM	58191
Surr: DNOP	98.4	70-130		%Rec	1	2/19/2021 10:28:19 AM	58191
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/19/2021 5:29:43 PM	58189
Surr: BFB	104	75.3-105		%Rec	1	2/19/2021 5:29:43 PM	58189
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/19/2021 5:29:43 PM	58189
Toluene	ND	0.049		mg/Kg	1	2/19/2021 5:29:43 PM	58189
Ethylbenzene	ND	0.049		mg/Kg	1	2/19/2021 5:29:43 PM	58189
Xylenes, Total	ND	0.097		mg/Kg	1	2/19/2021 5:29:43 PM	58189
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	2/19/2021 5:29:43 PM	58189

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

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

**Analytical Report**

Lab Order **2102813**

Date Reported: **2/23/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-4 2ft Bottom

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/10/2021 12:20:00 PM

**Lab ID:** 2102813-004

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	61		mg/Kg	20	2/22/2021 12:53:21 PM	58233
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/19/2021 10:38:08 AM	58191
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/19/2021 10:38:08 AM	58191
Surr: DNOP	98.7	70-130		%Rec	1	2/19/2021 10:38:08 AM	58191
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/19/2021 5:53:44 PM	58189
Surr: BFB	101	75.3-105		%Rec	1	2/19/2021 5:53:44 PM	58189
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/19/2021 5:53:44 PM	58189
Toluene	ND	0.050		mg/Kg	1	2/19/2021 5:53:44 PM	58189
Ethylbenzene	ND	0.050		mg/Kg	1	2/19/2021 5:53:44 PM	58189
Xylenes, Total	ND	0.099		mg/Kg	1	2/19/2021 5:53:44 PM	58189
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	2/19/2021 5:53:44 PM	58189

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

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

**Analytical Report**

Lab Order **2102813**

Date Reported: **2/23/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-5 2ft Bottom

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/10/2021 12:50:00 PM

**Lab ID:** 2102813-005

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	260	60		mg/Kg	20	2/22/2021 1:05:46 PM	58233
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	20	9.9		mg/Kg	1	2/19/2021 10:47:58 AM	58191
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/19/2021 10:47:58 AM	58191
Surr: DNOP	105	70-130		%Rec	1	2/19/2021 10:47:58 AM	58191
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/19/2021 6:17:45 PM	58189
Surr: BFB	101	75.3-105		%Rec	1	2/19/2021 6:17:45 PM	58189
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/19/2021 6:17:45 PM	58189
Toluene	ND	0.050		mg/Kg	1	2/19/2021 6:17:45 PM	58189
Ethylbenzene	ND	0.050		mg/Kg	1	2/19/2021 6:17:45 PM	58189
Xylenes, Total	ND	0.099		mg/Kg	1	2/19/2021 6:17:45 PM	58189
Surr: 4-Bromofluorobenzene	99.4	80-120		%Rec	1	2/19/2021 6:17:45 PM	58189

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

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

**Analytical Report**

Lab Order **2102813**

Date Reported: **2/23/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-6 2ft Bottom

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/10/2021 1:10:00 PM

**Lab ID:** 2102813-006

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	71	61		mg/Kg	20	2/22/2021 1:18:11 PM	58233
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/19/2021 12:18:13 PM	58191
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/19/2021 12:18:13 PM	58191
Surr: DNOP	89.0	70-130		%Rec	1	2/19/2021 12:18:13 PM	58191
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/19/2021 6:41:36 PM	58189
Surr: BFB	101	75.3-105		%Rec	1	2/19/2021 6:41:36 PM	58189
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/19/2021 6:41:36 PM	58189
Toluene	ND	0.049		mg/Kg	1	2/19/2021 6:41:36 PM	58189
Ethylbenzene	ND	0.049		mg/Kg	1	2/19/2021 6:41:36 PM	58189
Xylenes, Total	ND	0.098		mg/Kg	1	2/19/2021 6:41:36 PM	58189
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	2/19/2021 6:41:36 PM	58189

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

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

**Analytical Report**

Lab Order **2102813**

Date Reported: **2/23/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-7 2ft Bottom

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/10/2021 1:30:00 PM

**Lab ID:** 2102813-007

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	73	60		mg/Kg	20	2/22/2021 1:30:35 PM	58233
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	12	9.9		mg/Kg	1	2/19/2021 11:07:31 AM	58191
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/19/2021 11:07:31 AM	58191
Surr: DNOP	106	70-130		%Rec	1	2/19/2021 11:07:31 AM	58191
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/19/2021 7:05:29 PM	58189
Surr: BFB	105	75.3-105	S	%Rec	1	2/19/2021 7:05:29 PM	58189
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/19/2021 7:05:29 PM	58189
Toluene	ND	0.050		mg/Kg	1	2/19/2021 7:05:29 PM	58189
Ethylbenzene	ND	0.050		mg/Kg	1	2/19/2021 7:05:29 PM	58189
Xylenes, Total	ND	0.099		mg/Kg	1	2/19/2021 7:05:29 PM	58189
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	2/19/2021 7:05:29 PM	58189

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

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

**Analytical Report**

Lab Order **2102813**

Date Reported: **2/23/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-8 2ft Bottom

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/11/2021 11:30:00 AM

**Lab ID:** 2102813-008

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	2/22/2021 1:43:00 PM	58233
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/20/2021 1:10:44 PM	58201
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/20/2021 1:10:44 PM	58201
Surr: DNOP	90.7	70-130		%Rec	1	2/20/2021 1:10:44 PM	58201
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/19/2021 9:27:54 PM	58192
Surr: BFB	95.8	75.3-105		%Rec	1	2/19/2021 9:27:54 PM	58192
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/19/2021 9:27:54 PM	58192
Toluene	ND	0.049		mg/Kg	1	2/19/2021 9:27:54 PM	58192
Ethylbenzene	ND	0.049		mg/Kg	1	2/19/2021 9:27:54 PM	58192
Xylenes, Total	ND	0.098		mg/Kg	1	2/19/2021 9:27:54 PM	58192
Surr: 4-Bromofluorobenzene	96.9	80-120		%Rec	1	2/19/2021 9:27:54 PM	58192

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

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

**Analytical Report**

Lab Order **2102813**

Date Reported: **2/23/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-9 2ft Bottom

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/11/2021 11:55:00 AM

**Lab ID:** 2102813-009

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	2/22/2021 1:55:24 PM	58233
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/20/2021 1:34:38 PM	58201
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/20/2021 1:34:38 PM	58201
Surr: DNOP	89.8	70-130		%Rec	1	2/20/2021 1:34:38 PM	58201
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/19/2021 10:38:31 PM	58192
Surr: BFB	96.9	75.3-105		%Rec	1	2/19/2021 10:38:31 PM	58192
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/19/2021 10:38:31 PM	58192
Toluene	ND	0.049		mg/Kg	1	2/19/2021 10:38:31 PM	58192
Ethylbenzene	ND	0.049		mg/Kg	1	2/19/2021 10:38:31 PM	58192
Xylenes, Total	ND	0.098		mg/Kg	1	2/19/2021 10:38:31 PM	58192
Surr: 4-Bromofluorobenzene	98.5	80-120		%Rec	1	2/19/2021 10:38:31 PM	58192

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

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

**Analytical Report**

Lab Order **2102813**

Date Reported: **2/23/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-10 2ft Bottom

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/11/2021 12:10:00 PM

**Lab ID:** 2102813-010

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	2/22/2021 2:07:49 PM	58233
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/20/2021 1:58:30 PM	58201
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/20/2021 1:58:30 PM	58201
Surr: DNOP	90.7	70-130		%Rec	1	2/20/2021 1:58:30 PM	58201
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/19/2021 11:49:05 PM	58192
Surr: BFB	95.6	75.3-105		%Rec	1	2/19/2021 11:49:05 PM	58192
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/19/2021 11:49:05 PM	58192
Toluene	ND	0.048		mg/Kg	1	2/19/2021 11:49:05 PM	58192
Ethylbenzene	ND	0.048		mg/Kg	1	2/19/2021 11:49:05 PM	58192
Xylenes, Total	ND	0.096		mg/Kg	1	2/19/2021 11:49:05 PM	58192
Surr: 4-Bromofluorobenzene	96.6	80-120		%Rec	1	2/19/2021 11:49:05 PM	58192

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

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

**Analytical Report**

Lab Order **2102813**

Date Reported: **2/23/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-11 2ft Bottom

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/11/2021 12:25:00 PM

**Lab ID:** 2102813-011

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	2/22/2021 2:20:13 PM	58233
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/20/2021 2:22:24 PM	58201
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/20/2021 2:22:24 PM	58201
Surr: DNOP	93.5	70-130		%Rec	1	2/20/2021 2:22:24 PM	58201
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/20/2021 12:12:41 AM	58192
Surr: BFB	99.7	75.3-105		%Rec	1	2/20/2021 12:12:41 AM	58192
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/20/2021 12:12:41 AM	58192
Toluene	ND	0.049		mg/Kg	1	2/20/2021 12:12:41 AM	58192
Ethylbenzene	ND	0.049		mg/Kg	1	2/20/2021 12:12:41 AM	58192
Xylenes, Total	ND	0.099		mg/Kg	1	2/20/2021 12:12:41 AM	58192
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	2/20/2021 12:12:41 AM	58192

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

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

**Analytical Report**

Lab Order **2102813**

Date Reported: **2/23/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-12 2ft Bottom

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/11/2021 12:35:00 PM

**Lab ID:** 2102813-012

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	2/22/2021 2:57:27 PM	58233
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/20/2021 3:10:16 PM	58201
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/20/2021 3:10:16 PM	58201
Surr: DNOP	85.4	70-130		%Rec	1	2/20/2021 3:10:16 PM	58201
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/20/2021 12:36:17 AM	58192
Surr: BFB	97.4	75.3-105		%Rec	1	2/20/2021 12:36:17 AM	58192
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/20/2021 12:36:17 AM	58192
Toluene	ND	0.050		mg/Kg	1	2/20/2021 12:36:17 AM	58192
Ethylbenzene	ND	0.050		mg/Kg	1	2/20/2021 12:36:17 AM	58192
Xylenes, Total	ND	0.099		mg/Kg	1	2/20/2021 12:36:17 AM	58192
Surr: 4-Bromofluorobenzene	99.4	80-120		%Rec	1	2/20/2021 12:36:17 AM	58192

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

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

**Analytical Report**

Lab Order **2102813**

Date Reported: **2/23/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-13 West Wall

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/11/2021 12:55:00 PM

**Lab ID:** 2102813-013

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	2/22/2021 3:09:51 PM	58233
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/20/2021 3:34:15 PM	58201
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/20/2021 3:34:15 PM	58201
Surr: DNOP	88.8	70-130		%Rec	1	2/20/2021 3:34:15 PM	58201
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/20/2021 12:59:40 AM	58192
Surr: BFB	95.3	75.3-105		%Rec	1	2/20/2021 12:59:40 AM	58192
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/20/2021 12:59:40 AM	58192
Toluene	ND	0.048		mg/Kg	1	2/20/2021 12:59:40 AM	58192
Ethylbenzene	ND	0.048		mg/Kg	1	2/20/2021 12:59:40 AM	58192
Xylenes, Total	ND	0.097		mg/Kg	1	2/20/2021 12:59:40 AM	58192
Surr: 4-Bromofluorobenzene	96.7	80-120		%Rec	1	2/20/2021 12:59:40 AM	58192

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

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

**Analytical Report**

Lab Order **2102813**

Date Reported: **2/23/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-14 South Wall

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/11/2021 1:10:00 PM

**Lab ID:** 2102813-014

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	2/22/2021 3:22:15 PM	58233
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/20/2021 3:58:16 PM	58201
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/20/2021 3:58:16 PM	58201
Surr: DNOP	89.9	70-130		%Rec	1	2/20/2021 3:58:16 PM	58201
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/20/2021 1:23:12 AM	58192
Surr: BFB	98.9	75.3-105		%Rec	1	2/20/2021 1:23:12 AM	58192
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/20/2021 1:23:12 AM	58192
Toluene	ND	0.049		mg/Kg	1	2/20/2021 1:23:12 AM	58192
Ethylbenzene	ND	0.049		mg/Kg	1	2/20/2021 1:23:12 AM	58192
Xylenes, Total	ND	0.098		mg/Kg	1	2/20/2021 1:23:12 AM	58192
Surr: 4-Bromofluorobenzene	99.8	80-120		%Rec	1	2/20/2021 1:23:12 AM	58192

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

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

**Analytical Report**

Lab Order **2102813**

Date Reported: **2/23/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-15 South Wall

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/11/2021 1:25:00 PM

**Lab ID:** 2102813-015

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	2/22/2021 3:34:40 PM	58233
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/20/2021 4:22:12 PM	58201
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/20/2021 4:22:12 PM	58201
Surr: DNOP	89.6	70-130		%Rec	1	2/20/2021 4:22:12 PM	58201
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/20/2021 1:46:50 AM	58192
Surr: BFB	96.7	75.3-105		%Rec	1	2/20/2021 1:46:50 AM	58192
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/20/2021 1:46:50 AM	58192
Toluene	ND	0.049		mg/Kg	1	2/20/2021 1:46:50 AM	58192
Ethylbenzene	ND	0.049		mg/Kg	1	2/20/2021 1:46:50 AM	58192
Xylenes, Total	ND	0.097		mg/Kg	1	2/20/2021 1:46:50 AM	58192
Surr: 4-Bromofluorobenzene	97.1	80-120		%Rec	1	2/20/2021 1:46:50 AM	58192

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

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

**Analytical Report**

Lab Order **2102813**

Date Reported: **2/23/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-16 South Wall

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/11/2021 1:40:00 PM

**Lab ID:** 2102813-016

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	87	60		mg/Kg	20	2/22/2021 3:47:05 PM	58233
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/20/2021 4:46:08 PM	58201
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/20/2021 4:46:08 PM	58201
Surr: DNOP	88.2	70-130		%Rec	1	2/20/2021 4:46:08 PM	58201
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/20/2021 2:10:45 AM	58192
Surr: BFB	94.7	75.3-105		%Rec	1	2/20/2021 2:10:45 AM	58192
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	2/20/2021 2:10:45 AM	58192
Toluene	ND	0.047		mg/Kg	1	2/20/2021 2:10:45 AM	58192
Ethylbenzene	ND	0.047		mg/Kg	1	2/20/2021 2:10:45 AM	58192
Xylenes, Total	ND	0.093		mg/Kg	1	2/20/2021 2:10:45 AM	58192
Surr: 4-Bromofluorobenzene	95.3	80-120		%Rec	1	2/20/2021 2:10:45 AM	58192

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

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

**Analytical Report**

Lab Order **2102813**

Date Reported: **2/23/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-17 East Wall

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/11/2021 1:55:00 PM

**Lab ID:** 2102813-017

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	2/22/2021 3:59:29 PM	58233
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	2/20/2021 5:10:07 PM	58201
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	2/20/2021 5:10:07 PM	58201
Surr: DNOP	90.5	70-130		%Rec	1	2/20/2021 5:10:07 PM	58201
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/20/2021 2:34:40 AM	58192
Surr: BFB	98.8	75.3-105		%Rec	1	2/20/2021 2:34:40 AM	58192
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/20/2021 2:34:40 AM	58192
Toluene	ND	0.049		mg/Kg	1	2/20/2021 2:34:40 AM	58192
Ethylbenzene	ND	0.049		mg/Kg	1	2/20/2021 2:34:40 AM	58192
Xylenes, Total	ND	0.097		mg/Kg	1	2/20/2021 2:34:40 AM	58192
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	2/20/2021 2:34:40 AM	58192

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2102813

23-Feb-21

**Client:** Safety & Environmental Solutions  
**Project:** Devon Mesa Verde 6 Fed 2 Battery

Sample ID: <b>MB-58233</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>58233</b>	RunNo: <b>75450</b>								
Prep Date: <b>2/22/2021</b>	Analysis Date: <b>2/22/2021</b>	SeqNo: <b>2666492</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-58233</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>58233</b>	RunNo: <b>75450</b>								
Prep Date: <b>2/22/2021</b>	Analysis Date: <b>2/22/2021</b>	SeqNo: <b>2666493</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.1	90	110			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2102813

23-Feb-21

**Client:** Safety & Environmental Solutions  
**Project:** Devon Mesa Verde 6 Fed 2 Battery

Sample ID: <b>LCS-58191</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>58191</b>	RunNo: <b>75400</b>								
Prep Date: <b>2/18/2021</b>	Analysis Date: <b>2/19/2021</b>	SeqNo: <b>2664632</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.1	68.9	141			
Surr: DNOP	4.8		5.000		95.3	70	130			

Sample ID: <b>MB-58191</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>58191</b>	RunNo: <b>75400</b>								
Prep Date: <b>2/18/2021</b>	Analysis Date: <b>2/19/2021</b>	SeqNo: <b>2664633</b>	Units: <b>mg/Kg</b>							
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	10		10.00		103	70	130			

Sample ID: <b>MB-58201</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>58201</b>	RunNo: <b>75432</b>								
Prep Date: <b>2/19/2021</b>	Analysis Date: <b>2/20/2021</b>	SeqNo: <b>2665567</b>	Units: <b>mg/Kg</b>							
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	70	130			

Sample ID: <b>LCS-58201</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>58201</b>	RunNo: <b>75432</b>								
Prep Date: <b>2/19/2021</b>	Analysis Date: <b>2/20/2021</b>	SeqNo: <b>2665568</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	93.0	68.9	141			
Surr: DNOP	4.0		5.000		80.3	70	130			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2102813

23-Feb-21

**Client:** Safety & Environmental Solutions  
**Project:** Devon Mesa Verde 6 Fed 2 Battery

Sample ID: <b>mb-58189</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>58189</b>	RunNo: <b>75430</b>								
Prep Date: <b>2/18/2021</b>	Analysis Date: <b>2/19/2021</b>	SeqNo: <b>2665425</b>	Units: <b>mg/Kg</b>							
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		99.8	75.3	105			

Sample ID: <b>ics-58189</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>58189</b>	RunNo: <b>75430</b>								
Prep Date: <b>2/18/2021</b>	Analysis Date: <b>2/19/2021</b>	SeqNo: <b>2665426</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.7	80	120			
Surr: BFB	1100		1000		109	75.3	105			S

Sample ID: <b>mb-58192</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>58192</b>	RunNo: <b>75430</b>								
Prep Date: <b>2/18/2021</b>	Analysis Date: <b>2/19/2021</b>	SeqNo: <b>2665450</b>	Units: <b>mg/Kg</b>							
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	75.3	105			

Sample ID: <b>ics-58192</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>58192</b>	RunNo: <b>75430</b>								
Prep Date: <b>2/18/2021</b>	Analysis Date: <b>2/19/2021</b>	SeqNo: <b>2665451</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	80	120			
Surr: BFB	1100		1000		112	75.3	105			S

Sample ID: <b>2102813-008ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>SP-8 2ft Bottom</b>	Batch ID: <b>58192</b>	RunNo: <b>75430</b>								
Prep Date: <b>2/18/2021</b>	Analysis Date: <b>2/19/2021</b>	SeqNo: <b>2665453</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.30	0	99.8	61.3	114			
Surr: BFB	1000		971.8		106	75.3	105			S

Sample ID: <b>2102813-008amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>SP-8 2ft Bottom</b>	Batch ID: <b>58192</b>	RunNo: <b>75430</b>								
Prep Date: <b>2/18/2021</b>	Analysis Date: <b>2/19/2021</b>	SeqNo: <b>2665524</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2102813

23-Feb-21

**Client:** Safety & Environmental Solutions  
**Project:** Devon Mesa Verde 6 Fed 2 Battery

Sample ID: <b>2102813-008amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>SP-8 2ft Bottom</b>	Batch ID: <b>58192</b>	RunNo: <b>75430</b>								
Prep Date: <b>2/18/2021</b>	Analysis Date: <b>2/19/2021</b>	SeqNo: <b>2665524</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.51	0	97.3	61.3	114	1.60	20	
Surr: BFB	1000		980.4		104	75.3	105	0	0	

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2102813

23-Feb-21

**Client:** Safety & Environmental Solutions  
**Project:** Devon Mesa Verde 6 Fed 2 Battery

Sample ID: <b>mb-58189</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>58189</b>	RunNo: <b>75430</b>								
Prep Date: <b>2/18/2021</b>	Analysis Date: <b>2/19/2021</b>	SeqNo: <b>2665477</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID: <b>LCS-58189</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>58189</b>	RunNo: <b>75430</b>								
Prep Date: <b>2/18/2021</b>	Analysis Date: <b>2/19/2021</b>	SeqNo: <b>2665478</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.8	80	120			
Toluene	0.96	0.050	1.000	0	96.3	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.3	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID: <b>mb-58192</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>58192</b>	RunNo: <b>75430</b>								
Prep Date: <b>2/18/2021</b>	Analysis Date: <b>2/19/2021</b>	SeqNo: <b>2665501</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID: <b>LCS-58192</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>58192</b>	RunNo: <b>75430</b>								
Prep Date: <b>2/18/2021</b>	Analysis Date: <b>2/19/2021</b>	SeqNo: <b>2665502</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.1	80	120			
Toluene	0.92	0.050	1.000	0	91.7	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.2	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

**Qualifiers:**

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

# QC SUMMARY REPORT

WO#: 2102813

## Hall Environmental Analysis Laboratory, Inc.

23-Feb-21

**Client:** Safety & Environmental Solutions

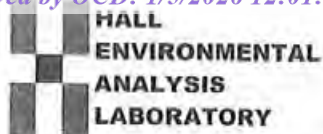
**Project:** Devon Mesa Verde 6 Fed 2 Battery

Sample ID: <b>2102813-009ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>SP-9 2ft Bottom</b>	Batch ID: <b>58192</b>	RunNo: <b>75430</b>								
Prep Date: <b>2/18/2021</b>	Analysis Date: <b>2/19/2021</b>	SeqNo: <b>2665505</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	0.9862	0	99.6	76.3	120			
Toluene	1.0	0.049	0.9862	0.01011	101	78.5	120			
Ethylbenzene	1.0	0.049	0.9862	0	102	78.1	124			
Xylenes, Total	3.0	0.099	2.959	0	102	79.3	125			
Surr: 4-Bromofluorobenzene	0.97		0.9862		97.9	80	120			

Sample ID: <b>2102813-009amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>SP-9 2ft Bottom</b>	Batch ID: <b>58192</b>	RunNo: <b>75430</b>								
Prep Date: <b>2/18/2021</b>	Analysis Date: <b>2/19/2021</b>	SeqNo: <b>2665506</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.024	0.9643	0	99.7	76.3	120	2.15	20	
Toluene	0.98	0.048	0.9643	0.01011	101	78.5	120	2.10	20	
Ethylbenzene	0.98	0.048	0.9643	0	102	78.1	124	2.33	20	
Xylenes, Total	2.9	0.096	2.893	0	101	79.3	125	2.69	20	
Surr: 4-Bromofluorobenzene	0.96		0.9643		100	80	120	0	0	

**Qualifiers:**

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



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

### Sample Log-In Check List

Client Name: **Safety & Environmental Solutions**      Work Order Number: **2102813**      RcptNo: 1

Received By: **Cheyenne Cason**      2/18/2021 8:20:00 AM

Completed By: **Cheyenne Cason**      2/18/2021 8:52:22 AM

Reviewed By: **ENM**      2/18/21

#### Chain of Custody

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

#### Log In

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

# of preserved bottles checked for pH: 10  
2/18/21  
(<2 or >12 unless noted)  
Adjusted?  
Checked by:

#### Special Handling (if applicable)

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

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

16. Additional remarks:

#### 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good				
2	1.0	Good				

### Chain-of-Custody Record

Client: Safety & Environmental Solutions

Mailing Address: 703 E Clanton Hobbs N.M 88240

Phone #: 575-397-0510

email or Fax#: QA/QC Package:  Standard  Level 4 (Full Validation)

Accreditation:  Az Compliance  NELAC  Other  EDD (Type)

Turn-Around Time: 5 day  
 Standard  Rush

Project Name: Devon MESA Verde 6 Fed 2 Battery

Project #: DEV-21-001

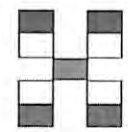
Project Manager: Allen, Bob

Sampler: Bob Allen  
On Ice:  Yes  No

# of Coolers: 2  
Cooler Temp (including CF): See Per (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
02/10	1100	S	SP-1 2.5ft Bottom	1	Ice	C01
	1120	S	SP-2 2ft Bottom	1	Nest	C02
	1200	S	SP-3 2ft Bottom	1		C03
	1220	S	SP-4 2ft Bottom	1		C04
	1250	S	SP-5 2ft Bottom	1		C05
	1310	S	SP-6 2ft Bottom	1		C06
02/10	1330	S	SP-7 2ft Bottom	1		C07
02/11	1130	S	SP-8 2ft Bottom	1		C08
	1155	S	SP-9 2ft Bottom	1		C09
	1210	S	SP-10 2ft Bottom	1		C10
	1225	S	SP-11 2ft Bottom	1		C11
02/11	1235	S	SP-12 2ft Bottom	1		C12

Container Type and #	Preservative Type	HEAL No.
1	Ice	C01
1	Nest	C02
1		C03
1		C04
1		C05
1		C06
1		C07
1		C08
1		C09
1		C10
1		C11
1		C12



### HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

#### Analysis Request

BTEX / 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	Cl, F, Br, NO3, NO2, PO4, SO4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
									X
									X
									X
									X
									X
									X
									X
									X
									X
									X
									X
									X
									X

Date: 02/17 Time: 0700 Relinquished by: [Signature]

Date: 2/17/21 Time: 1900 Relinquished by: [Signature]

Received by: [Signature] Via: Date: 2/17/21 Time: 1800

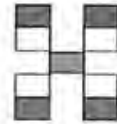
Received by: [Signature] Via: Date: 2/17/21 Time: 0820

Remarks: Bill Devon Duct.  
0.9 + 0.1 = 1.0  
0.9 + 0.1 = 1.0

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

# Chain-of-Custody Record

Turn-Around Time: 5 days  
 Standard  Rush  
 Project Name: Devon Mesa Verde 6 Feb 2 Battery  
 Project #: DEV-21-001



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: Safety + Environmental Solution  
 Mailing Address: 703 E. Chilton Hobbs NM 88240  
 Phone #: 575-397-0510  
 email or Fax#: \_\_\_\_\_  
 QA/QC Package:  
 Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  
 NELAC  Other \_\_\_\_\_  
 EDD (Type) \_\_\_\_\_

Project Manager: Allen, Bob  
 Sampler: Sam Sery  
 On Ice:  Yes  No  
 # of Coolers: 2  
 Cooler Temp (including CF): \_\_\_\_\_ (°C)

### Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / 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	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	
02/11	1255	S	SP-13 West Well	1	Mud	013	XX										X
	1310	S	SP-14 South Well	1	Ice	014											
	1325	S	SP-15 South Well	1		015											
	1340	S	SP-16 South Well	1		016											
02/11	1355	S	SP-17 East Well	1		017	XX										X

Date: 02/17 Time: 1800 Relinquished by: Sam Sery  
 Date: 2/18/21 Time: 0830 Relinquished by: [Signature]

Received by: [Signature] Via: \_\_\_\_\_ Date: 2/17/21 Time: 1800  
 Received by: [Signature] Via: \_\_\_\_\_ Date: 2/18/21 Time: 0830

Remarks: Bill Devon Direct.  
09101310  
04701110

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



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
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February 23, 2021

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

RE: Devon Mesa Verde 6 Fed 2 Battery

OrderNo.: 2102815

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 8 sample(s) on 2/18/2021 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order **2102815**

Date Reported: **2/23/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-18 1ft Bottom

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/16/2021 9:55:00 AM

**Lab ID:** 2102815-001

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	250	60		mg/Kg	20	2/22/2021 4:11:54 PM	58233
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/22/2021 11:00:00 AM	58209
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/22/2021 11:00:00 AM	58209
Surr: DNOP	112	70-130		%Rec	1	2/22/2021 11:00:00 AM	58209
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/20/2021 3:46:05 AM	58192
Surr: BFB	97.7	75.3-105		%Rec	1	2/20/2021 3:46:05 AM	58192
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/20/2021 3:46:05 AM	58192
Toluene	ND	0.049		mg/Kg	1	2/20/2021 3:46:05 AM	58192
Ethylbenzene	ND	0.049		mg/Kg	1	2/20/2021 3:46:05 AM	58192
Xylenes, Total	ND	0.099		mg/Kg	1	2/20/2021 3:46:05 AM	58192
Surr: 4-Bromofluorobenzene	98.8	80-120		%Rec	1	2/20/2021 3:46:05 AM	58192

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

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

**Analytical Report**

Lab Order **2102815**

Date Reported: **2/23/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-19 2ft Bottom

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/16/2021 10:15:00 AM

**Lab ID:** 2102815-002

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	250	60		mg/Kg	20	2/22/2021 4:24:18 PM	58233
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	12	9.4		mg/Kg	1	2/22/2021 11:23:26 AM	58209
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/22/2021 11:23:26 AM	58209
Surr: DNOP	104	70-130		%Rec	1	2/22/2021 11:23:26 AM	58209
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/20/2021 4:10:03 AM	58192
Surr: BFB	95.4	75.3-105		%Rec	1	2/20/2021 4:10:03 AM	58192
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/20/2021 4:10:03 AM	58192
Toluene	ND	0.050		mg/Kg	1	2/20/2021 4:10:03 AM	58192
Ethylbenzene	ND	0.050		mg/Kg	1	2/20/2021 4:10:03 AM	58192
Xylenes, Total	ND	0.099		mg/Kg	1	2/20/2021 4:10:03 AM	58192
Surr: 4-Bromofluorobenzene	95.9	80-120		%Rec	1	2/20/2021 4:10:03 AM	58192

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

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

**Analytical Report**

Lab Order **2102815**

Date Reported: **2/23/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-20 2ft Bottom

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/16/2021 10:35:00 AM

**Lab ID:** 2102815-003

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	2/22/2021 5:26:21 PM	58247
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/22/2021 11:46:52 AM	58209
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/22/2021 11:46:52 AM	58209
Surr: DNOP	99.1	70-130		%Rec	1	2/22/2021 11:46:52 AM	58209
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/20/2021 4:33:54 AM	58192
Surr: BFB	96.2	75.3-105		%Rec	1	2/20/2021 4:33:54 AM	58192
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/20/2021 4:33:54 AM	58192
Toluene	ND	0.049		mg/Kg	1	2/20/2021 4:33:54 AM	58192
Ethylbenzene	ND	0.049		mg/Kg	1	2/20/2021 4:33:54 AM	58192
Xylenes, Total	ND	0.097		mg/Kg	1	2/20/2021 4:33:54 AM	58192
Surr: 4-Bromofluorobenzene	97.3	80-120		%Rec	1	2/20/2021 4:33:54 AM	58192

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

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

**Analytical Report**

Lab Order **2102815**

Date Reported: **2/23/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-21 2ft Bottom

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/16/2021 10:50:00 AM

**Lab ID:** 2102815-004

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	59		mg/Kg	20	2/22/2021 5:38:46 PM	58247
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/22/2021 12:10:21 PM	58209
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/22/2021 12:10:21 PM	58209
Surr: DNOP	94.4	70-130		%Rec	1	2/22/2021 12:10:21 PM	58209
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/20/2021 4:57:39 AM	58192
Surr: BFB	98.8	75.3-105		%Rec	1	2/20/2021 4:57:39 AM	58192
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/20/2021 4:57:39 AM	58192
Toluene	ND	0.049		mg/Kg	1	2/20/2021 4:57:39 AM	58192
Ethylbenzene	ND	0.049		mg/Kg	1	2/20/2021 4:57:39 AM	58192
Xylenes, Total	ND	0.097		mg/Kg	1	2/20/2021 4:57:39 AM	58192
Surr: 4-Bromofluorobenzene	99.8	80-120		%Rec	1	2/20/2021 4:57:39 AM	58192

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

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

**Analytical Report**

Lab Order **2102815**

Date Reported: **2/23/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-22 2ft Bottom

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/16/2021 12:20:00 PM

**Lab ID:** 2102815-005

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	2/22/2021 5:51:11 PM	58247
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/22/2021 12:33:53 PM	58209
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/22/2021 12:33:53 PM	58209
Surr: DNOP	103	70-130		%Rec	1	2/22/2021 12:33:53 PM	58209
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/20/2021 5:21:26 AM	58192
Surr: BFB	97.6	75.3-105		%Rec	1	2/20/2021 5:21:26 AM	58192
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/20/2021 5:21:26 AM	58192
Toluene	ND	0.048		mg/Kg	1	2/20/2021 5:21:26 AM	58192
Ethylbenzene	ND	0.048		mg/Kg	1	2/20/2021 5:21:26 AM	58192
Xylenes, Total	ND	0.096		mg/Kg	1	2/20/2021 5:21:26 AM	58192
Surr: 4-Bromofluorobenzene	98.2	80-120		%Rec	1	2/20/2021 5:21:26 AM	58192

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

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

**Analytical Report**

Lab Order **2102815**

Date Reported: **2/23/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-23 2ft Bottom

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/16/2021 12:40:00 PM

**Lab ID:** 2102815-006

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	81	60		mg/Kg	20	2/22/2021 6:03:36 PM	58247
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/22/2021 12:57:34 PM	58209
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/22/2021 12:57:34 PM	58209
Surr: DNOP	100	70-130		%Rec	1	2/22/2021 12:57:34 PM	58209
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/20/2021 5:44:57 AM	58192
Surr: BFB	98.7	75.3-105		%Rec	1	2/20/2021 5:44:57 AM	58192
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/20/2021 5:44:57 AM	58192
Toluene	ND	0.049		mg/Kg	1	2/20/2021 5:44:57 AM	58192
Ethylbenzene	ND	0.049		mg/Kg	1	2/20/2021 5:44:57 AM	58192
Xylenes, Total	ND	0.098		mg/Kg	1	2/20/2021 5:44:57 AM	58192
Surr: 4-Bromofluorobenzene	96.7	80-120		%Rec	1	2/20/2021 5:44:57 AM	58192

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

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

**Analytical Report**

Lab Order **2102815**

Date Reported: **2/23/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-24 2ft Bottom

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/16/2021 1:05:00 PM

**Lab ID:** 2102815-007

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	2/22/2021 6:16:01 PM	58247
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/22/2021 1:21:16 PM	58209
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/22/2021 1:21:16 PM	58209
Surr: DNOP	97.5	70-130		%Rec	1	2/22/2021 1:21:16 PM	58209
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/20/2021 6:08:28 AM	58192
Surr: BFB	98.2	75.3-105		%Rec	1	2/20/2021 6:08:28 AM	58192
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/20/2021 6:08:28 AM	58192
Toluene	ND	0.048		mg/Kg	1	2/20/2021 6:08:28 AM	58192
Ethylbenzene	ND	0.048		mg/Kg	1	2/20/2021 6:08:28 AM	58192
Xylenes, Total	ND	0.096		mg/Kg	1	2/20/2021 6:08:28 AM	58192
Surr: 4-Bromofluorobenzene	98.9	80-120		%Rec	1	2/20/2021 6:08:28 AM	58192

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

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

**Analytical Report**

Lab Order **2102815**

Date Reported: **2/23/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-25 West Wall

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/16/2021 1:25:00 PM

**Lab ID:** 2102815-008

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	71	60		mg/Kg	20	2/22/2021 6:28:25 PM	58247
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/22/2021 1:45:00 PM	58209
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/22/2021 1:45:00 PM	58209
Surr: DNOP	94.4	70-130		%Rec	1	2/22/2021 1:45:00 PM	58209
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/20/2021 6:31:58 AM	58192
Surr: BFB	96.9	75.3-105		%Rec	1	2/20/2021 6:31:58 AM	58192
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	2/20/2021 6:31:58 AM	58192
Toluene	ND	0.047		mg/Kg	1	2/20/2021 6:31:58 AM	58192
Ethylbenzene	ND	0.047		mg/Kg	1	2/20/2021 6:31:58 AM	58192
Xylenes, Total	ND	0.094		mg/Kg	1	2/20/2021 6:31:58 AM	58192
Surr: 4-Bromofluorobenzene	98.8	80-120		%Rec	1	2/20/2021 6:31:58 AM	58192

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2102815

23-Feb-21

**Client:** Safety & Environmental Solutions  
**Project:** Devon Mesa Verde 6 Fed 2 Battery

Sample ID: <b>MB-58233</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>58233</b>	RunNo: <b>75450</b>								
Prep Date: <b>2/22/2021</b>	Analysis Date: <b>2/22/2021</b>	SeqNo: <b>2666492</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-58233</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>58233</b>	RunNo: <b>75450</b>								
Prep Date: <b>2/22/2021</b>	Analysis Date: <b>2/22/2021</b>	SeqNo: <b>2666493</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.1	90	110			

Sample ID: <b>MB-58247</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>58247</b>	RunNo: <b>75450</b>								
Prep Date: <b>2/22/2021</b>	Analysis Date: <b>2/22/2021</b>	SeqNo: <b>2666522</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-58247</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>58247</b>	RunNo: <b>75450</b>								
Prep Date: <b>2/22/2021</b>	Analysis Date: <b>2/22/2021</b>	SeqNo: <b>2666523</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.4	90	110			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2102815

23-Feb-21

**Client:** Safety & Environmental Solutions  
**Project:** Devon Mesa Verde 6 Fed 2 Battery

Sample ID: <b>MB-58217</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>58217</b>	RunNo: <b>75446</b>								
Prep Date: <b>2/20/2021</b>	Analysis Date: <b>2/22/2021</b>	SeqNo: <b>2666154</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		104	70	130			

Sample ID: <b>LCS-58217</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>58217</b>	RunNo: <b>75446</b>								
Prep Date: <b>2/20/2021</b>	Analysis Date: <b>2/22/2021</b>	SeqNo: <b>2666155</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.3		5.000		106	70	130			

Sample ID: <b>2102815-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>SP-18 1ft Bottom</b>	Batch ID: <b>58209</b>	RunNo: <b>75446</b>								
Prep Date: <b>2/19/2021</b>	Analysis Date: <b>2/22/2021</b>	SeqNo: <b>2666884</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	9.9	49.55	8.608	88.7	15	184			
Surr: DNOP	5.2		4.955		104	70	130			

Sample ID: <b>2102815-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>SP-18 1ft Bottom</b>	Batch ID: <b>58209</b>	RunNo: <b>75446</b>								
Prep Date: <b>2/19/2021</b>	Analysis Date: <b>2/22/2021</b>	SeqNo: <b>2666888</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	9.5	47.35	8.608	109	15	184	13.6	23.9	
Surr: DNOP	4.9		4.735		104	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2102815

23-Feb-21

**Client:** Safety & Environmental Solutions  
**Project:** Devon Mesa Verde 6 Fed 2 Battery

Sample ID: <b>mb-58192</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>58192</b>	RunNo: <b>75430</b>								
Prep Date: <b>2/18/2021</b>	Analysis Date: <b>2/19/2021</b>	SeqNo: <b>2665450</b>	Units: <b>mg/Kg</b>							
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	75.3	105			

Sample ID: <b>lcs-58192</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>58192</b>	RunNo: <b>75430</b>								
Prep Date: <b>2/18/2021</b>	Analysis Date: <b>2/19/2021</b>	SeqNo: <b>2665451</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	80	120			
Surr: BFB	1100		1000		112	75.3	105			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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2102815

23-Feb-21

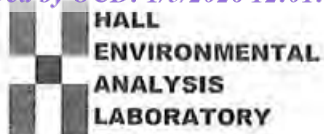
**Client:** Safety & Environmental Solutions  
**Project:** Devon Mesa Verde 6 Fed 2 Battery

Sample ID: <b>mb-58192</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>58192</b>	RunNo: <b>75430</b>								
Prep Date: <b>2/18/2021</b>	Analysis Date: <b>2/19/2021</b>	SeqNo: <b>2665501</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID: <b>LCS-58192</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>58192</b>	RunNo: <b>75430</b>								
Prep Date: <b>2/18/2021</b>	Analysis Date: <b>2/19/2021</b>	SeqNo: <b>2665502</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.1	80	120			
Toluene	0.92	0.050	1.000	0	91.7	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.2	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

**Qualifiers:**

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



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

Sample Log-In Check List

Client Name: Safety & Environmental Solutions Work Order Number: 2102815 RcptNo: 1

Received By: Cheyenne Cason 2/18/2021 8:20:00 AM

Completed By: Cheyenne Cason 2/18/2021 9:11:05 AM

Reviewed By: ENM 2/18/21

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [ ] Not Present [ ]
2. How was the sample delivered? Courier

Log In

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

# of preserved bottles checked for pH: 10 2/18/21 (<2 or >12 unless noted) Adjusted? Checked by:

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [checked]

Person Notified: [ ] Date: [ ]
By Whom: [ ] Via: [ ] eMail [ ] Phone [ ] Fax [ ] In Person [ ]
Regarding: [ ]
Client Instructions: [ ]

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Rows 1 and 2 show Temp 1.0 and Condition Good.

# Chain-of-Custody Record

Client: Safety & Environmental Solutions

Mailing Address: 703 E. Clanton  
6666 N.W. 8824 D

Phone #: 575-397-0510

email or Fax#:

QA/QC Package:  
 Standard  Level 4 (Full Validation)

Accreditation:  Az Compliance  
 NELAC  Other

EDD (Type)

Turn-Around Time: 5 day  
 Standard  Rush

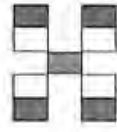
Project Name: Duron  
Mesa Verde 6 Feb 2 Bore

Project #: Dev-21-001

Project Manager: Allen, Bob

Sampler: Son Jerry  
On Ice:  Yes  No

# of Coolers: 2  
Cooler Temp (including CF): See Below (°C)



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com  
4901 Hawkins NE - Albuquerque, NM 87109  
Tel. 505-345-3975 Fax 505-345-4107

### Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / 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	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
02/16	0955	S	SP-18 1F Bottom	1	Ice	2102815 001	X	X								X
	1015	S	SP-19 2F Bottom	1	Mud	002										
	1035	S	SP-20 2A Patch	1		003										
	1050	S	SP-21 2F Bottom	1		004										
	1120	S	SP-22 2F Patch	1		005										
	1240	S	SP-23 2F Bottom	1		006										
	1305	S	SP-24 2F Bottom	1		007										
02/16	1325	S	SP-25 <u>WELL</u>	1		008	X	X								X

Date: 2/17 Time: 1700 Relinquished by: Son Jerry

Date: 2/17/21 Time: 1900 Relinquished by: [Signature]

Received by: [Signature] Via: [Signature] Date: 2/17/21 Time: 1800

Received by: [Signature] Via: [Signature] Date: 2/18/21 Time: 0820

Remarks: Ball Duron Detect.  
0.4101 = 1.0  
0.4101 = 1.0

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



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

February 24, 2021

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

RE: Devon Mesa Verde 6 Fed 2 Battery

OrderNo.: 2102812

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 9 sample(s) on 2/18/2021 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order **2102812**

Date Reported: **2/24/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-26 West Wall

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/17/2021 9:20:00 AM

**Lab ID:** 2102812-001

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	59		mg/Kg	20	2/20/2021 11:13:34 AM	58212
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/19/2021 8:42:38 AM	58191
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/19/2021 8:42:38 AM	58191
Surr: DNOP	130	70-130		%Rec	1	2/19/2021 8:42:38 AM	58191
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/19/2021 12:18:38 PM	58189
Surr: BFB	97.9	75.3-105		%Rec	1	2/19/2021 12:18:38 PM	58189
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/19/2021 12:18:38 PM	58189
Toluene	ND	0.049		mg/Kg	1	2/19/2021 12:18:38 PM	58189
Ethylbenzene	ND	0.049		mg/Kg	1	2/19/2021 12:18:38 PM	58189
Xylenes, Total	ND	0.099		mg/Kg	1	2/19/2021 12:18:38 PM	58189
Surr: 4-Bromofluorobenzene	99.7	80-120		%Rec	1	2/19/2021 12:18:38 PM	58189

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

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

**Analytical Report**

Lab Order **2102812**

Date Reported: **2/24/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-27 1ft Bottom

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/17/2021 9:40:00 AM

**Lab ID:** 2102812-002

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	90	60		mg/Kg	20	2/20/2021 11:25:59 AM	58212
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	2/19/2021 8:52:07 AM	58191
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	2/19/2021 8:52:07 AM	58191
Surr: DNOP	105	70-130		%Rec	1	2/19/2021 8:52:07 AM	58191
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/19/2021 12:42:16 PM	58189
Surr: BFB	97.9	75.3-105		%Rec	1	2/19/2021 12:42:16 PM	58189
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/19/2021 12:42:16 PM	58189
Toluene	ND	0.049		mg/Kg	1	2/19/2021 12:42:16 PM	58189
Ethylbenzene	ND	0.049		mg/Kg	1	2/19/2021 12:42:16 PM	58189
Xylenes, Total	ND	0.098		mg/Kg	1	2/19/2021 12:42:16 PM	58189
Surr: 4-Bromofluorobenzene	99.9	80-120		%Rec	1	2/19/2021 12:42:16 PM	58189

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

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

**Analytical Report**

Lab Order **2102812**

Date Reported: **2/24/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-28 1ft Bottom

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/17/2021 9:55:00 AM

**Lab ID:** 2102812-003

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	88	60		mg/Kg	20	2/20/2021 11:38:24 AM	58212
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/19/2021 9:01:41 AM	58191
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/19/2021 9:01:41 AM	58191
Surr: DNOP	99.4	70-130		%Rec	1	2/19/2021 9:01:41 AM	58191
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/19/2021 1:06:05 PM	58189
Surr: BFB	98.9	75.3-105		%Rec	1	2/19/2021 1:06:05 PM	58189
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/19/2021 1:06:05 PM	58189
Toluene	ND	0.049		mg/Kg	1	2/19/2021 1:06:05 PM	58189
Ethylbenzene	ND	0.049		mg/Kg	1	2/19/2021 1:06:05 PM	58189
Xylenes, Total	ND	0.098		mg/Kg	1	2/19/2021 1:06:05 PM	58189
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	2/19/2021 1:06:05 PM	58189

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

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

**Analytical Report**

Lab Order **2102812**

Date Reported: **2/24/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-29 1ft Bottom

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/17/2021 10:10:00 AM

**Lab ID:** 2102812-004

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	88	61		mg/Kg	20	2/20/2021 11:50:49 AM	58212
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/19/2021 9:11:16 AM	58191
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/19/2021 9:11:16 AM	58191
Surr: DNOP	104	70-130		%Rec	1	2/19/2021 9:11:16 AM	58191
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/19/2021 1:29:49 PM	58189
Surr: BFB	98.8	75.3-105		%Rec	1	2/19/2021 1:29:49 PM	58189
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/19/2021 1:29:49 PM	58189
Toluene	ND	0.048		mg/Kg	1	2/19/2021 1:29:49 PM	58189
Ethylbenzene	ND	0.048		mg/Kg	1	2/19/2021 1:29:49 PM	58189
Xylenes, Total	ND	0.097		mg/Kg	1	2/19/2021 1:29:49 PM	58189
Surr: 4-Bromofluorobenzene	99.2	80-120		%Rec	1	2/19/2021 1:29:49 PM	58189

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

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

**Analytical Report**

Lab Order **2102812**

Date Reported: **2/24/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-30 1ft Bottom

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/17/2021 10:25:00 AM

**Lab ID:** 2102812-005

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	89	60		mg/Kg	20	2/20/2021 12:03:13 PM	58212
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/19/2021 9:20:51 AM	58191
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/19/2021 9:20:51 AM	58191
Surr: DNOP	103	70-130		%Rec	1	2/19/2021 9:20:51 AM	58191
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/19/2021 1:53:38 PM	58189
Surr: BFB	100	75.3-105		%Rec	1	2/19/2021 1:53:38 PM	58189
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/19/2021 1:53:38 PM	58189
Toluene	ND	0.049		mg/Kg	1	2/19/2021 1:53:38 PM	58189
Ethylbenzene	ND	0.049		mg/Kg	1	2/19/2021 1:53:38 PM	58189
Xylenes, Total	ND	0.099		mg/Kg	1	2/19/2021 1:53:38 PM	58189
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	2/19/2021 1:53:38 PM	58189

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

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

**Analytical Report**

Lab Order **2102812**

Date Reported: **2/24/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-31 1ft Bottom

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/17/2021 11:00:00 AM

**Lab ID:** 2102812-006

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	92	60		mg/Kg	20	2/20/2021 12:15:38 PM	58212
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/19/2021 9:30:26 AM	58191
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/19/2021 9:30:26 AM	58191
Surr: DNOP	104	70-130		%Rec	1	2/19/2021 9:30:26 AM	58191
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/19/2021 2:17:28 PM	58189
Surr: BFB	99.7	75.3-105		%Rec	1	2/19/2021 2:17:28 PM	58189
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/19/2021 2:17:28 PM	58189
Toluene	ND	0.049		mg/Kg	1	2/19/2021 2:17:28 PM	58189
Ethylbenzene	ND	0.049		mg/Kg	1	2/19/2021 2:17:28 PM	58189
Xylenes, Total	ND	0.097		mg/Kg	1	2/19/2021 2:17:28 PM	58189
Surr: 4-Bromofluorobenzene	99.6	80-120		%Rec	1	2/19/2021 2:17:28 PM	58189

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

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

**Analytical Report**

Lab Order **2102812**

Date Reported: **2/24/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-32 East Wall

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/17/2021 11:35:00 AM

**Lab ID:** 2102812-007

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	59		mg/Kg	20	2/20/2021 12:28:03 PM	58212
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	2/19/2021 9:40:05 AM	58191
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/19/2021 9:40:05 AM	58191
Surr: DNOP	103	70-130		%Rec	1	2/19/2021 9:40:05 AM	58191
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/19/2021 3:29:20 PM	58189
Surr: BFB	103	75.3-105		%Rec	1	2/19/2021 3:29:20 PM	58189
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/19/2021 3:29:20 PM	58189
Toluene	ND	0.050		mg/Kg	1	2/19/2021 3:29:20 PM	58189
Ethylbenzene	ND	0.050		mg/Kg	1	2/19/2021 3:29:20 PM	58189
Xylenes, Total	ND	0.10		mg/Kg	1	2/19/2021 3:29:20 PM	58189
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	2/19/2021 3:29:20 PM	58189

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

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

**Analytical Report**

Lab Order **2102812**

Date Reported: **2/24/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-33 North Wall

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/17/2021 12:15:00 PM

**Lab ID:** 2102812-008

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	75	60		mg/Kg	20	2/20/2021 12:40:28 PM	58212
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/19/2021 9:49:42 AM	58191
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/19/2021 9:49:42 AM	58191
Surr: DNOP	125	70-130		%Rec	1	2/19/2021 9:49:42 AM	58191
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/19/2021 3:53:18 PM	58189
Surr: BFB	100	75.3-105		%Rec	1	2/19/2021 3:53:18 PM	58189
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/19/2021 3:53:18 PM	58189
Toluene	ND	0.049		mg/Kg	1	2/19/2021 3:53:18 PM	58189
Ethylbenzene	ND	0.049		mg/Kg	1	2/19/2021 3:53:18 PM	58189
Xylenes, Total	ND	0.098		mg/Kg	1	2/19/2021 3:53:18 PM	58189
Surr: 4-Bromofluorobenzene	99.9	80-120		%Rec	1	2/19/2021 3:53:18 PM	58189

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

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

**Analytical Report**

Lab Order **2102812**

Date Reported: **2/24/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-34 North Wall

**Project:** Devon Mesa Verde 6 Fed 2 Battery

**Collection Date:** 2/17/2021 2:10:00 PM

**Lab ID:** 2102812-009

**Matrix:** SOIL

**Received Date:** 2/18/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	85	60		mg/Kg	20	2/22/2021 10:49:16 AM	58233
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/19/2021 9:59:21 AM	58191
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/19/2021 9:59:21 AM	58191
Surr: DNOP	106	70-130		%Rec	1	2/19/2021 9:59:21 AM	58191
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/19/2021 4:17:21 PM	58189
Surr: BFB	103	75.3-105		%Rec	1	2/19/2021 4:17:21 PM	58189
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/19/2021 4:17:21 PM	58189
Toluene	ND	0.048		mg/Kg	1	2/19/2021 4:17:21 PM	58189
Ethylbenzene	ND	0.048		mg/Kg	1	2/19/2021 4:17:21 PM	58189
Xylenes, Total	ND	0.097		mg/Kg	1	2/19/2021 4:17:21 PM	58189
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	2/19/2021 4:17:21 PM	58189

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2102812

24-Feb-21

**Client:** Safety & Environmental Solutions  
**Project:** Devon Mesa Verde 6 Fed 2 Battery

Sample ID: <b>MB-58212</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>58212</b>	RunNo: <b>75428</b>								
Prep Date: <b>2/19/2021</b>	Analysis Date: <b>2/19/2021</b>	SeqNo: <b>2665363</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-58212</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>58212</b>	RunNo: <b>75428</b>								
Prep Date: <b>2/19/2021</b>	Analysis Date: <b>2/19/2021</b>	SeqNo: <b>2665364</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.8	90	110			

Sample ID: <b>MB-58233</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>58233</b>	RunNo: <b>75450</b>								
Prep Date: <b>2/22/2021</b>	Analysis Date: <b>2/22/2021</b>	SeqNo: <b>2666492</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-58233</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>58233</b>	RunNo: <b>75450</b>								
Prep Date: <b>2/22/2021</b>	Analysis Date: <b>2/22/2021</b>	SeqNo: <b>2666493</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.1	90	110			

Sample ID: <b>MB-58212</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>58212</b>	RunNo: <b>75463</b>								
Prep Date: <b>2/19/2021</b>	Analysis Date: <b>2/23/2021</b>	SeqNo: <b>2667594</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-58212</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>58212</b>	RunNo: <b>75463</b>								
Prep Date: <b>2/19/2021</b>	Analysis Date: <b>2/23/2021</b>	SeqNo: <b>2667595</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	90	110			

**Qualifiers:**

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2102812

24-Feb-21

**Client:** Safety & Environmental Solutions

**Project:** Devon Mesa Verde 6 Fed 2 Battery

Sample ID: <b>LCS-58191</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>58191</b>	RunNo: <b>75400</b>								
Prep Date: <b>2/18/2021</b>	Analysis Date: <b>2/19/2021</b>	SeqNo: <b>2664632</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.1	68.9	141			
Surr: DNOP	4.8		5.000		95.3	70	130			

Sample ID: <b>MB-58191</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>58191</b>	RunNo: <b>75400</b>								
Prep Date: <b>2/18/2021</b>	Analysis Date: <b>2/19/2021</b>	SeqNo: <b>2664633</b>	Units: <b>mg/Kg</b>							
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	10		10.00		103	70	130			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2102812

24-Feb-21

**Client:** Safety & Environmental Solutions

**Project:** Devon Mesa Verde 6 Fed 2 Battery

Sample ID: <b>mb-58189</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>58189</b>	RunNo: <b>75430</b>								
Prep Date: <b>2/18/2021</b>	Analysis Date: <b>2/19/2021</b>	SeqNo: <b>2665425</b>	Units: <b>mg/Kg</b>							
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		99.8	75.3	105			

Sample ID: <b>ics-58189</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>58189</b>	RunNo: <b>75430</b>								
Prep Date: <b>2/18/2021</b>	Analysis Date: <b>2/19/2021</b>	SeqNo: <b>2665426</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.7	80	120			
Surr: BFB	1100		1000		109	75.3	105			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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2102812

24-Feb-21

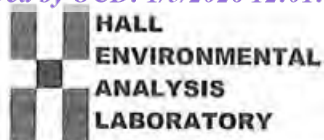
**Client:** Safety & Environmental Solutions  
**Project:** Devon Mesa Verde 6 Fed 2 Battery

Sample ID: <b>mb-58189</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>58189</b>	RunNo: <b>75430</b>								
Prep Date: <b>2/18/2021</b>	Analysis Date: <b>2/19/2021</b>	SeqNo: <b>2665477</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID: <b>LCS-58189</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>58189</b>	RunNo: <b>75430</b>								
Prep Date: <b>2/18/2021</b>	Analysis Date: <b>2/19/2021</b>	SeqNo: <b>2665478</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.8	80	120			
Toluene	0.96	0.050	1.000	0	96.3	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.3	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

**Qualifiers:**

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



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

### Sample Log-In Check List

Client Name: **Safety & Environmental Solutions**      Work Order Number: **2102812**      RcptNo: **1**

Received By: **Cheyenne Cason**      2/18/2021 8:20:00 AM

Completed By: **Sean Livingston**      2/18/2021 8:40:12 AM

Reviewed By: **ENM**      2/18/21

*Sean Livingston*

#### Chain of Custody

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

#### Log In

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

# of preserved bottles checked for pH: \_\_\_\_\_  
(<2 or >12 unless noted)  
Adjusted? \_\_\_\_\_  
Checked by: SPA 2.18.21

#### Special Handling (if applicable)

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

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

16. Additional remarks:

#### 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good				
2	1.0	Good				

# Chain-of-Custody Record

Client: Safety & Environmental Solutions

Mailing Address: 703 E. Clinton  
Albuquerque NM 88240

Phone #: 505-397-0510

email or Fax#:

QA/QC Package:  
 Standard  Level 4 (Full Validation)

Accreditation:  Az Compliance  
 NELAC  Other  
 EDD (Type)

Turn-Around Time: 5 days

Standard  Rush

Project Name: Devon  
Mesa Verde 6 Feb 2 Retham

Project #: Dev-21-001

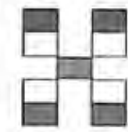
Project Manager: Allen Bob

Sampler: Sam Jung

On Ice:  Yes  No

# of Coolers: 2

Cooler Temp (including CFI): See below (°C)



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com  
4901 Hawkins NE - Albuquerque, NM 87109  
Tel. 505-345-3975 Fax 505-345-4107

### Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MIRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
2/17	0920	S	SP-26 Well	1	Ice	2101812 001	X	X								X
	0940	S	SP-27 HF Bottom	1	None	002										
	0955	S	SP-28 HF Bottom	1		003										
	1010	S	SP-29 HF Bottom	1		004										
	1025	S	SP-30 HF Bottom	1		005										
	1100	S	SP-31 HF Bottom	1		006										
	1135	S	SP-32 Well	1		007										
	1215	S	SP-33 North Well	1		008										
2/17	1410	S	SP-34 Well	1		009	X	X								X

Date: 2/17 Time: 1700 Relinquished by: Sam Jung

Date: 2/17 Time: 1800 Received by: [Signature] Via: [Signature] Date: 2/17/21 Time: 1800 Remarks: Bill Devond Direct

Date: 2/17 Time: 1900 Relinquished by: [Signature]

Date: 2/18/21 Time: 0820 Received by: [Signature] Via: [Signature] Date: 2/18/21 Time: 0820

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



Environment Testing

- 1
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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Mr. Kent Stallings  
Vertex  
3101 Boyd Dr  
Carlsbad, New Mexico 88220

Generated 7/2/2024 2:49:59 PM

## JOB DESCRIPTION

Mesa Verde 6 CTB

## JOB NUMBER

885-6048-1

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  
7/2/2024 2:49:59 PM

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

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Laboratory Job ID: 885-6048-1



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## Definitions/Glossary

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

## GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high 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)
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
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
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
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
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  
Project: Mesa Verde 6 CTB

Job ID: 885-6048-1

**Job ID: 885-6048-1**

**Eurofins Albuquerque**

### Job Narrative 885-6048-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 6/12/2024 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 0.5°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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-6645 and analytical batch 885-6757 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015D\_DRO: Surrogate recovery for the following sample was outside the upper control limit: BH24-06 2' (885-6048-23). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8015D\_DRO: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 885-6677 and analytical batch 885-6771 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015D\_DRO: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-6645 and analytical batch 885-6837 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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 Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

Client Sample ID: BH24-01 0'

Lab Sample ID: 885-6048-1

Date Collected: 06/06/24 09:00

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		06/13/24 08:22	06/16/24 19:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		35 - 166			06/13/24 08:22	06/16/24 19:58	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/13/24 08:22	06/16/24 19:58	1
Ethylbenzene	ND		0.050	mg/Kg		06/13/24 08:22	06/16/24 19:58	1
Toluene	ND		0.050	mg/Kg		06/13/24 08:22	06/16/24 19:58	1
Xylenes, Total	ND		0.10	mg/Kg		06/13/24 08:22	06/16/24 19:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		48 - 145			06/13/24 08:22	06/16/24 19:58	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	F1	8.6	mg/Kg		06/13/24 10:36	06/14/24 11:21	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		06/13/24 10:36	06/14/24 11:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	106		62 - 134			06/13/24 10:36	06/14/24 11:21	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		06/13/24 09:39	06/13/24 20:55	20

### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

Client Sample ID: BH24-02 0'

Lab Sample ID: 885-6048-2

Date Collected: 06/06/24 09:10

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		06/13/24 08:22	06/16/24 21:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		35 - 166			06/13/24 08:22	06/16/24 21:09	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/13/24 08:22	06/16/24 21:09	1
Ethylbenzene	ND		0.050	mg/Kg		06/13/24 08:22	06/16/24 21:09	1
Toluene	ND		0.050	mg/Kg		06/13/24 08:22	06/16/24 21:09	1
Xylenes, Total	ND		0.10	mg/Kg		06/13/24 08:22	06/16/24 21:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		48 - 145			06/13/24 08:22	06/16/24 21:09	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.6	mg/Kg		06/13/24 10:36	06/14/24 11:44	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		06/13/24 10:36	06/14/24 11:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	104		62 - 134			06/13/24 10:36	06/14/24 11:44	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		06/13/24 09:39	06/13/24 21:08	20

### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

Client Sample ID: BH24-03 0'

Lab Sample ID: 885-6048-3

Date Collected: 06/06/24 09:20

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		06/13/24 08:22	06/16/24 22:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		35 - 166			06/13/24 08:22	06/16/24 22:19	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/13/24 08:22	06/16/24 22:19	1
Ethylbenzene	ND		0.050	mg/Kg		06/13/24 08:22	06/16/24 22:19	1
Toluene	ND		0.050	mg/Kg		06/13/24 08:22	06/16/24 22:19	1
Xylenes, Total	ND		0.099	mg/Kg		06/13/24 08:22	06/16/24 22:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		48 - 145			06/13/24 08:22	06/16/24 22:19	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		06/13/24 10:36	06/14/24 12:08	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/13/24 10:36	06/14/24 12:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103		62 - 134			06/13/24 10:36	06/14/24 12:08	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		06/13/24 09:39	06/13/24 21:20	20

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### Client Sample Results

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

Client Sample ID: BH24-04 0'

Lab Sample ID: 885-6048-4

Date Collected: 06/06/24 09:30

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		06/13/24 08:22	06/16/24 22:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166			06/13/24 08:22	06/16/24 22:42	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/13/24 08:22	06/16/24 22:42	1
Ethylbenzene	ND		0.049	mg/Kg		06/13/24 08:22	06/16/24 22:42	1
Toluene	ND		0.049	mg/Kg		06/13/24 08:22	06/16/24 22:42	1
Xylenes, Total	ND		0.098	mg/Kg		06/13/24 08:22	06/16/24 22:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		48 - 145			06/13/24 08:22	06/16/24 22:42	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		06/13/24 10:36	06/14/24 12:32	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		06/13/24 10:36	06/14/24 12:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	111		62 - 134			06/13/24 10:36	06/14/24 12:32	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		06/13/24 09:39	06/13/24 21:32	20

### Client Sample Results

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

Client Sample ID: BH24-05 0'

Lab Sample ID: 885-6048-5

Date Collected: 06/06/24 09:40

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		06/13/24 08:22	06/16/24 23:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166			06/13/24 08:22	06/16/24 23:06	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/13/24 08:22	06/16/24 23:06	1
Ethylbenzene	ND		0.050	mg/Kg		06/13/24 08:22	06/16/24 23:06	1
Toluene	ND		0.050	mg/Kg		06/13/24 08:22	06/16/24 23:06	1
Xylenes, Total	ND		0.099	mg/Kg		06/13/24 08:22	06/16/24 23:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		48 - 145			06/13/24 08:22	06/16/24 23:06	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		06/13/24 10:36	06/14/24 12:56	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		06/13/24 10:36	06/14/24 12:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	111		62 - 134			06/13/24 10:36	06/14/24 12:56	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		06/13/24 09:39	06/13/24 21:45	20

### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

Client Sample ID: BH24-07 0'

Lab Sample ID: 885-6048-7

Date Collected: 06/06/24 11:00

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		06/13/24 08:22	06/16/24 23:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		35 - 166			06/13/24 08:22	06/16/24 23:29	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/13/24 08:22	06/16/24 23:29	1
Ethylbenzene	ND		0.049	mg/Kg		06/13/24 08:22	06/16/24 23:29	1
Toluene	ND		0.049	mg/Kg		06/13/24 08:22	06/16/24 23:29	1
Xylenes, Total	ND		0.099	mg/Kg		06/13/24 08:22	06/16/24 23:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		48 - 145			06/13/24 08:22	06/16/24 23:29	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9	mg/Kg		06/13/24 10:36	06/14/24 13:19	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		06/13/24 10:36	06/14/24 13:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	106		62 - 134			06/13/24 10:36	06/14/24 13:19	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		06/13/24 09:39	06/13/24 21:57	20

### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

Client Sample ID: BH24-08 0'

Lab Sample ID: 885-6048-8

Date Collected: 06/06/24 11:10

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		06/13/24 08:22	06/16/24 23:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		35 - 166			06/13/24 08:22	06/16/24 23:53	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/13/24 08:22	06/16/24 23:53	1
Ethylbenzene	ND		0.050	mg/Kg		06/13/24 08:22	06/16/24 23:53	1
Toluene	ND		0.050	mg/Kg		06/13/24 08:22	06/16/24 23:53	1
Xylenes, Total	ND		0.10	mg/Kg		06/13/24 08:22	06/16/24 23:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		48 - 145			06/13/24 08:22	06/16/24 23:53	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0	mg/Kg		06/13/24 10:36	06/14/24 13:43	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		06/13/24 10:36	06/14/24 13:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	108		62 - 134			06/13/24 10:36	06/14/24 13:43	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		06/13/24 09:39	06/13/24 22:09	20

### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

Client Sample ID: BH24-10 0'

Lab Sample ID: 885-6048-10

Date Collected: 06/06/24 13:00

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		06/13/24 08:22	06/17/24 00:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		35 - 166			06/13/24 08:22	06/17/24 00:16	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/13/24 08:22	06/17/24 00:16	1
Ethylbenzene	ND		0.050	mg/Kg		06/13/24 08:22	06/17/24 00:16	1
Toluene	ND		0.050	mg/Kg		06/13/24 08:22	06/17/24 00:16	1
Xylenes, Total	ND		0.10	mg/Kg		06/13/24 08:22	06/17/24 00:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		48 - 145			06/13/24 08:22	06/17/24 00:16	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.6	mg/Kg		06/13/24 10:36	06/14/24 14:07	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		06/13/24 10:36	06/14/24 14:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	115		62 - 134			06/13/24 10:36	06/14/24 14:07	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60		60	mg/Kg		06/14/24 07:43	06/14/24 15:32	20

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### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

Client Sample ID: BH24-11 0'

Lab Sample ID: 885-6048-11

Date Collected: 06/06/24 13:10

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		06/13/24 08:22	06/17/24 00:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		35 - 166			06/13/24 08:22	06/17/24 00:39	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/13/24 08:22	06/17/24 00:39	1
Ethylbenzene	ND		0.047	mg/Kg		06/13/24 08:22	06/17/24 00:39	1
Toluene	ND		0.047	mg/Kg		06/13/24 08:22	06/17/24 00:39	1
Xylenes, Total	ND		0.095	mg/Kg		06/13/24 08:22	06/17/24 00:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		48 - 145			06/13/24 08:22	06/17/24 00:39	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		06/13/24 10:36	06/14/24 14:31	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		06/13/24 10:36	06/14/24 14:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	114		62 - 134			06/13/24 10:36	06/14/24 14:31	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		06/14/24 07:43	06/14/24 16:10	20

### Client Sample Results

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

Client Sample ID: BH24-12 0'

Lab Sample ID: 885-6048-12

Date Collected: 06/06/24 13:20

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		06/13/24 08:22	06/17/24 01:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		35 - 166			06/13/24 08:22	06/17/24 01:03	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/13/24 08:22	06/17/24 01:03	1
Ethylbenzene	ND		0.050	mg/Kg		06/13/24 08:22	06/17/24 01:03	1
Toluene	ND		0.050	mg/Kg		06/13/24 08:22	06/17/24 01:03	1
Xylenes, Total	ND		0.099	mg/Kg		06/13/24 08:22	06/17/24 01:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		48 - 145			06/13/24 08:22	06/17/24 01:03	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9	mg/Kg		06/13/24 10:36	06/14/24 14:54	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		06/13/24 10:36	06/14/24 14:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	122		62 - 134			06/13/24 10:36	06/14/24 14:54	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	230		60	mg/Kg		06/14/24 07:43	06/14/24 16:49	20

### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

Client Sample ID: BH24-13 0'

Lab Sample ID: 885-6048-13

Date Collected: 06/06/24 13:10

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		06/13/24 08:22	06/17/24 02:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		35 - 166			06/13/24 08:22	06/17/24 02:13	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/13/24 08:22	06/17/24 02:13	1
Ethylbenzene	ND		0.048	mg/Kg		06/13/24 08:22	06/17/24 02:13	1
Toluene	ND		0.048	mg/Kg		06/13/24 08:22	06/17/24 02:13	1
Xylenes, Total	ND		0.096	mg/Kg		06/13/24 08:22	06/17/24 02:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		48 - 145			06/13/24 08:22	06/17/24 02:13	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	14		8.8	mg/Kg		06/13/24 10:36	06/13/24 22:39	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		06/13/24 10:36	06/13/24 22:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	66		62 - 134			06/13/24 10:36	06/13/24 22:39	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	250		60	mg/Kg		06/14/24 07:43	06/14/24 17:01	20

### Client Sample Results

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

Client Sample ID: BH24-14 0'

Lab Sample ID: 885-6048-14

Date Collected: 06/06/24 13:20

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		06/13/24 08:22	06/17/24 02:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166			06/13/24 08:22	06/17/24 02:37	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/13/24 08:22	06/17/24 02:37	1
Ethylbenzene	ND		0.048	mg/Kg		06/13/24 08:22	06/17/24 02:37	1
Toluene	ND		0.048	mg/Kg		06/13/24 08:22	06/17/24 02:37	1
Xylenes, Total	ND		0.097	mg/Kg		06/13/24 08:22	06/17/24 02:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		48 - 145			06/13/24 08:22	06/17/24 02:37	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		06/13/24 10:36	06/14/24 15:18	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		06/13/24 10:36	06/14/24 15:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	111		62 - 134			06/13/24 10:36	06/14/24 15:18	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		06/14/24 07:43	06/14/24 17:40	20

### Client Sample Results

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

Client Sample ID: BH24-15 0'

Lab Sample ID: 885-6048-15

Date Collected: 06/06/24 13:30

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		06/13/24 08:22	06/17/24 03:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166			06/13/24 08:22	06/17/24 03:01	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/13/24 08:22	06/17/24 03:01	1
Ethylbenzene	ND		0.048	mg/Kg		06/13/24 08:22	06/17/24 03:01	1
Toluene	ND		0.048	mg/Kg		06/13/24 08:22	06/17/24 03:01	1
Xylenes, Total	ND		0.097	mg/Kg		06/13/24 08:22	06/17/24 03:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		48 - 145			06/13/24 08:22	06/17/24 03:01	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		06/13/24 10:36	06/14/24 15:42	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/13/24 10:36	06/14/24 15:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	120		62 - 134			06/13/24 10:36	06/14/24 15:42	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		06/14/24 07:43	06/14/24 17:53	20

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### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

**Client Sample ID: BH24-16 0'**

**Lab Sample ID: 885-6048-16**

Date Collected: 06/06/24 13:40

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		06/13/24 08:22	06/17/24 03:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166			06/13/24 08:22	06/17/24 03:24	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		06/13/24 08:22	06/17/24 03:24	1
Ethylbenzene	ND		0.047	mg/Kg		06/13/24 08:22	06/17/24 03:24	1
Toluene	ND		0.047	mg/Kg		06/13/24 08:22	06/17/24 03:24	1
Xylenes, Total	ND		0.093	mg/Kg		06/13/24 08:22	06/17/24 03:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		48 - 145			06/13/24 08:22	06/17/24 03:24	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	30		8.7	mg/Kg		06/13/24 10:36	06/14/24 16:06	1
Motor Oil Range Organics [C28-C40]	74		44	mg/Kg		06/13/24 10:36	06/14/24 16:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	118		62 - 134			06/13/24 10:36	06/14/24 16:06	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		60	mg/Kg		06/14/24 07:43	06/14/24 18:06	20

### Client Sample Results

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

Client Sample ID: BH24-01 2'

Lab Sample ID: 885-6048-17

Date Collected: 06/07/24 09:00

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		06/13/24 08:22	06/17/24 03:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		35 - 166			06/13/24 08:22	06/17/24 03:47	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/13/24 08:22	06/17/24 03:47	1
Ethylbenzene	ND		0.050	mg/Kg		06/13/24 08:22	06/17/24 03:47	1
Toluene	ND		0.050	mg/Kg		06/13/24 08:22	06/17/24 03:47	1
Xylenes, Total	ND		0.099	mg/Kg		06/13/24 08:22	06/17/24 03:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		48 - 145			06/13/24 08:22	06/17/24 03:47	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0	mg/Kg		06/13/24 10:36	06/14/24 00:20	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		06/13/24 10:36	06/14/24 00:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			06/13/24 10:36	06/14/24 00:20	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		59	mg/Kg		06/14/24 07:43	06/14/24 18:19	20

### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

**Client Sample ID: BH24-02 2'**

**Lab Sample ID: 885-6048-18**

Date Collected: 06/07/24 09:10

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		06/13/24 08:22	06/17/24 04:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		35 - 166			06/13/24 08:22	06/17/24 04:11	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/13/24 08:22	06/17/24 04:11	1
Ethylbenzene	ND		0.049	mg/Kg		06/13/24 08:22	06/17/24 04:11	1
Toluene	ND		0.049	mg/Kg		06/13/24 08:22	06/17/24 04:11	1
Xylenes, Total	ND		0.099	mg/Kg		06/13/24 08:22	06/17/24 04:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		48 - 145			06/13/24 08:22	06/17/24 04:11	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		06/13/24 10:36	06/14/24 00:45	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		06/13/24 10:36	06/14/24 00:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134			06/13/24 10:36	06/14/24 00:45	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		06/14/24 07:43	06/14/24 18:31	20

### Client Sample Results

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

Client Sample ID: BH24-03 2'

Lab Sample ID: 885-6048-19

Date Collected: 06/07/24 09:30

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		06/13/24 08:22	06/17/24 04:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		35 - 166			06/13/24 08:22	06/17/24 04:34	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/13/24 08:22	06/17/24 04:34	1
Ethylbenzene	ND		0.049	mg/Kg		06/13/24 08:22	06/17/24 04:34	1
Toluene	ND		0.049	mg/Kg		06/13/24 08:22	06/17/24 04:34	1
Xylenes, Total	ND		0.099	mg/Kg		06/13/24 08:22	06/17/24 04:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		48 - 145			06/13/24 08:22	06/17/24 04:34	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		06/13/24 10:36	06/14/24 01:11	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		06/13/24 10:36	06/14/24 01:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			06/13/24 10:36	06/14/24 01:11	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		06/14/24 07:43	06/14/24 18:44	20

### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

Client Sample ID: BH24-04 2'

Lab Sample ID: 885-6048-20

Date Collected: 06/07/24 09:40

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		06/13/24 08:22	06/17/24 04:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			06/13/24 08:22	06/17/24 04:58	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/13/24 08:22	06/17/24 04:58	1
Ethylbenzene	ND		0.047	mg/Kg		06/13/24 08:22	06/17/24 04:58	1
Toluene	ND		0.047	mg/Kg		06/13/24 08:22	06/17/24 04:58	1
Xylenes, Total	ND		0.094	mg/Kg		06/13/24 08:22	06/17/24 04:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		48 - 145			06/13/24 08:22	06/17/24 04:58	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.6	mg/Kg		06/13/24 10:36	06/14/24 01:36	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		06/13/24 10:36	06/14/24 01:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			06/13/24 10:36	06/14/24 01:36	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		61	mg/Kg		06/14/24 07:43	06/14/24 18:57	20

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### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

Client Sample ID: BH24-05 2'

Lab Sample ID: 885-6048-21

Date Collected: 06/07/24 10:00

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		06/13/24 08:22	06/17/24 05:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		35 - 166			06/13/24 08:22	06/17/24 05:21	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/13/24 08:22	06/17/24 05:21	1
Ethylbenzene	ND		0.050	mg/Kg		06/13/24 08:22	06/17/24 05:21	1
Toluene	ND		0.050	mg/Kg		06/13/24 08:22	06/17/24 05:21	1
Xylenes, Total	ND		0.099	mg/Kg		06/13/24 08:22	06/17/24 05:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		48 - 145			06/13/24 08:22	06/17/24 05:21	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9	mg/Kg		06/13/24 10:36	06/14/24 02:01	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		06/13/24 10:36	06/14/24 02:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	98		62 - 134			06/13/24 10:36	06/14/24 02:01	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		60	mg/Kg		06/14/24 07:43	06/14/24 19:10	20

### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

Client Sample ID: BH24-06 0'

Lab Sample ID: 885-6048-22

Date Collected: 06/07/24 10:10

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		06/13/24 08:22	06/17/24 05:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166			06/13/24 08:22	06/17/24 05:45	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/13/24 08:22	06/17/24 05:45	1
Ethylbenzene	ND		0.049	mg/Kg		06/13/24 08:22	06/17/24 05:45	1
Toluene	ND		0.049	mg/Kg		06/13/24 08:22	06/17/24 05:45	1
Xylenes, Total	ND		0.097	mg/Kg		06/13/24 08:22	06/17/24 05:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		48 - 145			06/13/24 08:22	06/17/24 05:45	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9	mg/Kg		06/13/24 10:36	06/14/24 02:26	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		06/13/24 10:36	06/14/24 02:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			06/13/24 10:36	06/14/24 02:26	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76		60	mg/Kg		06/14/24 07:43	06/14/24 19:23	20

### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

**Client Sample ID: BH24-06 2'**

**Lab Sample ID: 885-6048-23**

Date Collected: 06/07/24 10:20

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		06/13/24 10:17	06/15/24 05:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		35 - 166			06/13/24 10:17	06/15/24 05:42	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/13/24 10:17	06/15/24 05:42	1
Ethylbenzene	ND		0.050	mg/Kg		06/13/24 10:17	06/15/24 05:42	1
Toluene	ND		0.050	mg/Kg		06/13/24 10:17	06/15/24 05:42	1
Xylenes, Total	ND		0.10	mg/Kg		06/13/24 10:17	06/15/24 05:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		48 - 145			06/13/24 10:17	06/15/24 05:42	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.6	mg/Kg		06/13/24 15:01	06/14/24 13:32	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		06/13/24 15:01	06/14/24 13:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	136	S1+	62 - 134			06/13/24 15:01	06/14/24 13:32	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		60	mg/Kg		06/14/24 07:43	06/14/24 19:36	20

### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

**Client Sample ID: BH24-07 2'**

**Lab Sample ID: 885-6048-24**

Date Collected: 06/07/24 10:30

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		06/13/24 10:17	06/15/24 06:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		35 - 166			06/13/24 10:17	06/15/24 06:52	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/13/24 10:17	06/15/24 06:52	1
Ethylbenzene	ND		0.049	mg/Kg		06/13/24 10:17	06/15/24 06:52	1
Toluene	ND		0.049	mg/Kg		06/13/24 10:17	06/15/24 06:52	1
Xylenes, Total	ND		0.099	mg/Kg		06/13/24 10:17	06/15/24 06:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		48 - 145			06/13/24 10:17	06/15/24 06:52	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		06/13/24 15:01	06/14/24 13:44	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		06/13/24 15:01	06/14/24 13:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	124		62 - 134			06/13/24 15:01	06/14/24 13:44	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		06/14/24 07:43	06/14/24 20:14	20

### Client Sample Results

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

Client Sample ID: BH24-08 2'

Lab Sample ID: 885-6048-25

Date Collected: 06/07/24 10:40

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		06/13/24 10:17	06/15/24 08:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			06/13/24 10:17	06/15/24 08:03	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/13/24 10:17	06/15/24 08:03	1
Ethylbenzene	ND		0.049	mg/Kg		06/13/24 10:17	06/15/24 08:03	1
Toluene	ND		0.049	mg/Kg		06/13/24 10:17	06/15/24 08:03	1
Xylenes, Total	ND		0.099	mg/Kg		06/13/24 10:17	06/15/24 08:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		48 - 145			06/13/24 10:17	06/15/24 08:03	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		06/13/24 15:01	06/14/24 13:57	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/13/24 15:01	06/14/24 13:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	124		62 - 134			06/13/24 15:01	06/14/24 13:57	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		06/14/24 07:43	06/14/24 20:27	20

### Client Sample Results

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

Client Sample ID: BH24-09 0'

Lab Sample ID: 885-6048-26

Date Collected: 06/07/24 11:00

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		06/13/24 10:17	06/15/24 08:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			06/13/24 10:17	06/15/24 08:27	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/13/24 10:17	06/15/24 08:27	1
Ethylbenzene	ND		0.047	mg/Kg		06/13/24 10:17	06/15/24 08:27	1
Toluene	ND		0.047	mg/Kg		06/13/24 10:17	06/15/24 08:27	1
Xylenes, Total	ND		0.095	mg/Kg		06/13/24 10:17	06/15/24 08:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		48 - 145			06/13/24 10:17	06/15/24 08:27	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.8	mg/Kg		06/13/24 15:01	06/14/24 14:09	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		06/13/24 15:01	06/14/24 14:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	133		62 - 134			06/13/24 15:01	06/14/24 14:09	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80		60	mg/Kg		06/14/24 07:43	06/14/24 20:40	20

### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

Client Sample ID: BH24-09 2'

Lab Sample ID: 885-6048-27

Date Collected: 06/07/24 11:10

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		06/13/24 10:17	06/15/24 09:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166			06/13/24 10:17	06/15/24 09:37	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/13/24 10:17	06/15/24 09:37	1
Ethylbenzene	ND		0.048	mg/Kg		06/13/24 10:17	06/15/24 09:37	1
Toluene	ND		0.048	mg/Kg		06/13/24 10:17	06/15/24 09:37	1
Xylenes, Total	ND		0.096	mg/Kg		06/13/24 10:17	06/15/24 09:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		48 - 145			06/13/24 10:17	06/15/24 09:37	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		06/13/24 15:01	06/14/24 16:48	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/13/24 15:01	06/14/24 16:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	119		62 - 134			06/13/24 15:01	06/14/24 16:48	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		60	mg/Kg		06/14/24 07:43	06/14/24 20:53	20

### Client Sample Results

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

Client Sample ID: BH24-10 2'

Lab Sample ID: 885-6048-28

Date Collected: 06/07/24 11:20

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		06/13/24 10:17	06/15/24 10:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		35 - 166			06/13/24 10:17	06/15/24 10:00	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/13/24 10:17	06/15/24 10:00	1
Ethylbenzene	ND		0.048	mg/Kg		06/13/24 10:17	06/15/24 10:00	1
Toluene	ND		0.048	mg/Kg		06/13/24 10:17	06/15/24 10:00	1
Xylenes, Total	ND		0.096	mg/Kg		06/13/24 10:17	06/15/24 10:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		48 - 145			06/13/24 10:17	06/15/24 10:00	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		06/13/24 15:01	06/14/24 17:00	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		06/13/24 15:01	06/14/24 17:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	120		62 - 134			06/13/24 15:01	06/14/24 17:00	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93		60	mg/Kg		06/14/24 07:43	06/14/24 21:06	20

### Client Sample Results

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

Client Sample ID: BH24-11 2'

Lab Sample ID: 885-6048-29

Date Collected: 06/07/24 11:30

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		06/13/24 10:17	06/15/24 10:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		35 - 166			06/13/24 10:17	06/15/24 10:24	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/13/24 10:17	06/15/24 10:24	1
Ethylbenzene	ND		0.048	mg/Kg		06/13/24 10:17	06/15/24 10:24	1
Toluene	ND		0.048	mg/Kg		06/13/24 10:17	06/15/24 10:24	1
Xylenes, Total	ND		0.096	mg/Kg		06/13/24 10:17	06/15/24 10:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		48 - 145			06/13/24 10:17	06/15/24 10:24	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.8	mg/Kg		06/13/24 15:01	06/14/24 17:38	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		06/13/24 15:01	06/14/24 17:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	115		62 - 134			06/13/24 15:01	06/14/24 17:38	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		06/14/24 07:43	06/14/24 21:19	20

### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

Client Sample ID: BH24-12 2'

Lab Sample ID: 885-6048-30

Date Collected: 06/07/24 11:40

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		06/13/24 10:17	06/15/24 10:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		35 - 166			06/13/24 10:17	06/15/24 10:47	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/13/24 10:17	06/15/24 10:47	1
Ethylbenzene	ND		0.048	mg/Kg		06/13/24 10:17	06/15/24 10:47	1
Toluene	ND		0.048	mg/Kg		06/13/24 10:17	06/15/24 10:47	1
Xylenes, Total	ND		0.095	mg/Kg		06/13/24 10:17	06/15/24 10:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		48 - 145			06/13/24 10:17	06/15/24 10:47	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		06/13/24 15:01	06/14/24 17:50	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		06/13/24 15:01	06/14/24 17:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	112		62 - 134			06/13/24 15:01	06/14/24 17:50	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		60	mg/Kg		06/14/24 09:56	06/14/24 18:49	20

### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

Client Sample ID: BH24-13 2'

Lab Sample ID: 885-6048-31

Date Collected: 06/07/24 13:00

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		06/13/24 10:17	06/15/24 11:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		35 - 166			06/13/24 10:17	06/15/24 11:11	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/13/24 10:17	06/15/24 11:11	1
Ethylbenzene	ND		0.048	mg/Kg		06/13/24 10:17	06/15/24 11:11	1
Toluene	ND		0.048	mg/Kg		06/13/24 10:17	06/15/24 11:11	1
Xylenes, Total	ND		0.096	mg/Kg		06/13/24 10:17	06/15/24 11:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		48 - 145			06/13/24 10:17	06/15/24 11:11	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		06/13/24 15:01	06/14/24 18:03	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		06/13/24 15:01	06/14/24 18:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	117		62 - 134			06/13/24 15:01	06/14/24 18:03	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		06/18/24 07:19	06/18/24 14:24	20

### Client Sample Results

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

Client Sample ID: BH24-14 2'

Lab Sample ID: 885-6048-32

Date Collected: 06/07/24 13:10

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		06/13/24 10:17	06/15/24 11:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166			06/13/24 10:17	06/15/24 11:35	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/13/24 10:17	06/15/24 11:35	1
Ethylbenzene	ND		0.050	mg/Kg		06/13/24 10:17	06/15/24 11:35	1
Toluene	ND		0.050	mg/Kg		06/13/24 10:17	06/15/24 11:35	1
Xylenes, Total	ND		0.099	mg/Kg		06/13/24 10:17	06/15/24 11:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		48 - 145			06/13/24 10:17	06/15/24 11:35	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9	mg/Kg		06/13/24 15:01	06/14/24 18:15	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		06/13/24 15:01	06/14/24 18:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	119		62 - 134			06/13/24 15:01	06/14/24 18:15	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		06/18/24 07:19	06/18/24 14:36	20

### Client Sample Results

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

Client Sample ID: BH24-15 2'

Lab Sample ID: 885-6048-33

Date Collected: 06/07/24 13:20

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		06/13/24 10:17	06/15/24 11:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		35 - 166			06/13/24 10:17	06/15/24 11:58	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/13/24 10:17	06/15/24 11:58	1
Ethylbenzene	ND		0.047	mg/Kg		06/13/24 10:17	06/15/24 11:58	1
Toluene	ND		0.047	mg/Kg		06/13/24 10:17	06/15/24 11:58	1
Xylenes, Total	ND		0.095	mg/Kg		06/13/24 10:17	06/15/24 11:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		48 - 145			06/13/24 10:17	06/15/24 11:58	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.8	mg/Kg		06/13/24 15:01	06/14/24 18:28	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		06/13/24 15:01	06/14/24 18:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	133		62 - 134			06/13/24 15:01	06/14/24 18:28	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		61	mg/Kg		06/18/24 07:19	06/18/24 14:49	20

### Client Sample Results

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

**Client Sample ID: BH24-16 2'**

**Lab Sample ID: 885-6048-34**

Date Collected: 06/07/24 13:30

Matrix: Solid

Date Received: 06/12/24 07:45

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		06/13/24 10:17	06/15/24 12:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			06/13/24 10:17	06/15/24 12:22	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/13/24 10:17	06/15/24 12:22	1
Ethylbenzene	ND		0.049	mg/Kg		06/13/24 10:17	06/15/24 12:22	1
Toluene	ND		0.049	mg/Kg		06/13/24 10:17	06/15/24 12:22	1
Xylenes, Total	ND		0.099	mg/Kg		06/13/24 10:17	06/15/24 12:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		48 - 145			06/13/24 10:17	06/15/24 12:22	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	F2	9.7	mg/Kg		06/13/24 15:01	06/14/24 18:40	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/13/24 15:01	06/14/24 18:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	123		62 - 134			06/13/24 15:01	06/14/24 18:40	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		60	mg/Kg		06/18/24 07:19	06/18/24 15:02	20

### QC Sample Results

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

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

**Lab Sample ID: MB 885-6627/1-A**  
**Matrix: Solid**  
**Analysis Batch: 6831**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 6627**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		06/13/24 08:22	06/16/24 19:34	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		35 - 166			06/13/24 08:22	06/16/24 19:34	1

**Lab Sample ID: LCS 885-6627/2-A**  
**Matrix: Solid**  
**Analysis Batch: 6831**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 6627**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	24.7		mg/Kg		99	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	217	S1+	35 - 166				

**Lab Sample ID: 885-6048-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 6831**

**Client Sample ID: BH24-01 0'**  
**Prep Type: Total/NA**  
**Prep Batch: 6627**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	ND		24.9	24.8		mg/Kg		99	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	226	S1+	35 - 166						

**Lab Sample ID: 885-6048-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 6831**

**Client Sample ID: BH24-01 0'**  
**Prep Type: Total/NA**  
**Prep Batch: 6627**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.9	24.0		mg/Kg		96	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	227	S1+	35 - 166								

**Lab Sample ID: MB 885-6642/1-A**  
**Matrix: Solid**  
**Analysis Batch: 6817**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 6642**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		06/13/24 10:17	06/15/24 05:18	1

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### QC Sample Results

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

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

Lab Sample ID: MB 885-6642/1-A  
Matrix: Solid  
Analysis Batch: 6817

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 6642

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	96		35 - 166	06/13/24 10:17	06/15/24 05:18	1

Lab Sample ID: LCS 885-6642/2-A  
Matrix: Solid  
Analysis Batch: 6817

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 6642

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	25.0	21.6		mg/Kg		87	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	199	S1+	35 - 166

Lab Sample ID: 885-6048-23 MS  
Matrix: Solid  
Analysis Batch: 6817

Client Sample ID: BH24-06 2'  
Prep Type: Total/NA  
Prep Batch: 6642

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	ND		24.9	23.0		mg/Kg		92	70 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	214	S1+	35 - 166

Lab Sample ID: 885-6048-23 MSD  
Matrix: Solid  
Analysis Batch: 6817

Client Sample ID: BH24-06 2'  
Prep Type: Total/NA  
Prep Batch: 6642

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
				Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	ND		25.0	22.5		mg/Kg		90	70 - 130	2	20

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	208	S1+	35 - 166

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

Lab Sample ID: MB 885-6627/1-A  
Matrix: Solid  
Analysis Batch: 6832

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 6627

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	ND		0.025	mg/Kg		06/13/24 08:22	06/16/24 19:34	1
Ethylbenzene	ND		0.050	mg/Kg		06/13/24 08:22	06/16/24 19:34	1
Toluene	ND		0.050	mg/Kg		06/13/24 08:22	06/16/24 19:34	1
Xylenes, Total	ND		0.10	mg/Kg		06/13/24 08:22	06/16/24 19:34	1

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### QC Sample Results

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

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

Lab Sample ID: MB 885-6627/1-A  
Matrix: Solid  
Analysis Batch: 6832

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 6627

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	98		48 - 145	06/13/24 08:22	06/16/24 19:34	1

Lab Sample ID: LCS 885-6627/3-A  
Matrix: Solid  
Analysis Batch: 6832

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 6627

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene	1.00	1.01		mg/Kg		101	70 - 130	
Ethylbenzene	1.00	0.942		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	2.00	1.91		mg/Kg		95	70 - 130	
o-Xylene	1.00	0.936		mg/Kg		94	70 - 130	
Toluene	1.00	0.946		mg/Kg		95	70 - 130	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		48 - 145

Lab Sample ID: 885-6048-2 MS  
Matrix: Solid  
Analysis Batch: 6832

Client Sample ID: BH24-02 0'  
Prep Type: Total/NA  
Prep Batch: 6627

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene	ND		1.00	0.971		mg/Kg		97	70 - 130	
Ethylbenzene	ND		1.00	0.926		mg/Kg		93	70 - 130	
m-Xylene & p-Xylene	ND		2.00	1.90		mg/Kg		94	70 - 130	
o-Xylene	ND		1.00	0.918		mg/Kg		92	70 - 130	
Toluene	ND		1.00	0.935		mg/Kg		92	70 - 130	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		48 - 145

Lab Sample ID: 885-6048-2 MSD  
Matrix: Solid  
Analysis Batch: 6832

Client Sample ID: BH24-02 0'  
Prep Type: Total/NA  
Prep Batch: 6627

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD	
											RPD	Limit
Benzene	ND		0.992	0.951		mg/Kg		96	70 - 130	2	20	
Ethylbenzene	ND		0.992	0.906		mg/Kg		91	70 - 130	2	20	
m-Xylene & p-Xylene	ND		1.98	1.82		mg/Kg		90	70 - 130	4	20	
o-Xylene	ND		0.992	0.902		mg/Kg		91	70 - 130	2	20	
Toluene	ND		0.992	0.911		mg/Kg		90	70 - 130	3	20	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		48 - 145

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### QC Sample Results

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

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

Lab Sample ID: MB 885-6642/1-A  
Matrix: Solid  
Analysis Batch: 6818

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 6642

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	ND		0.025	mg/Kg		06/13/24 10:17	06/15/24 05:18	1
Ethylbenzene	ND		0.050	mg/Kg		06/13/24 10:17	06/15/24 05:18	1
Toluene	ND		0.050	mg/Kg		06/13/24 10:17	06/15/24 05:18	1
Xylenes, Total	ND		0.10	mg/Kg		06/13/24 10:17	06/15/24 05:18	1
Surrogate								
	MB MB		Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		48 - 145			06/13/24 10:17	06/15/24 05:18	1

Lab Sample ID: LCS 885-6642/3-A  
Matrix: Solid  
Analysis Batch: 6818

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 6642

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	1.00	0.922		mg/Kg		92	70 - 130
Ethylbenzene	1.00	0.861		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	2.00	1.75		mg/Kg		87	70 - 130
o-Xylene	1.00	0.846		mg/Kg		85	70 - 130
Toluene	1.00	0.869		mg/Kg		87	70 - 130
Surrogate							
	LCS LCS		Limits				
4-Bromofluorobenzene (Surr)	95		48 - 145				

Lab Sample ID: 885-6048-24 MS  
Matrix: Solid  
Analysis Batch: 6818

Client Sample ID: BH24-07 2'  
Prep Type: Total/NA  
Prep Batch: 6642

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Benzene	ND		0.981	0.895		mg/Kg		91	70 - 130
Ethylbenzene	ND		0.981	0.859		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	ND		1.96	1.71		mg/Kg		86	70 - 130
o-Xylene	ND		0.981	0.836		mg/Kg		85	70 - 130
Toluene	ND		0.981	0.852		mg/Kg		85	70 - 130
Surrogate									
	MS MS		Limits						
4-Bromofluorobenzene (Surr)	94		48 - 145						

Lab Sample ID: 885-6048-24 MSD  
Matrix: Solid  
Analysis Batch: 6818

Client Sample ID: BH24-07 2'  
Prep Type: Total/NA  
Prep Batch: 6642

Analyte	Sample Sample		Spike Added	MSD MSD		Unit	D	%Rec	%Rec Limits	RPD	
	Result	Qualifier		Result	Qualifier					RPD	Limit
Benzene	ND		0.969	0.952		mg/Kg		98	70 - 130	6	20
Ethylbenzene	ND		0.969	0.922		mg/Kg		95	70 - 130	7	20
m-Xylene & p-Xylene	ND		1.94	1.84		mg/Kg		94	70 - 130	7	20
o-Xylene	ND		0.969	0.893		mg/Kg		92	70 - 130	7	20
Toluene	ND		0.969	0.909		mg/Kg		92	70 - 130	6	20

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### QC Sample Results

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

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

Lab Sample ID: 885-6048-24 MSD  
Matrix: Solid  
Analysis Batch: 6818

Client Sample ID: BH24-07 2'  
Prep Type: Total/NA  
Prep Batch: 6642

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		48 - 145

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

Lab Sample ID: MB 885-6645/1-A  
Matrix: Solid  
Analysis Batch: 6757

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 6645

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		06/13/24 10:36	06/13/24 16:43	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		06/13/24 10:36	06/13/24 16:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103		62 - 134	06/13/24 10:36	06/13/24 16:43	1

Lab Sample ID: LCS 885-6645/2-A  
Matrix: Solid  
Analysis Batch: 6757

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 6645

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	47.7		mg/Kg		95	60 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	91		62 - 134

Lab Sample ID: MB 885-6677/1-A  
Matrix: Solid  
Analysis Batch: 6771

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 6677

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		06/13/24 15:01	06/14/24 11:27	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		06/13/24 15:01	06/14/24 11:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	116		62 - 134	06/13/24 15:01	06/14/24 11:27	1

Lab Sample ID: LCS 885-6677/2-A  
Matrix: Solid  
Analysis Batch: 6771

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 6677

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	49.0		mg/Kg		98	60 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	118		62 - 134

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### QC Sample Results

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

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

Lab Sample ID: 885-6048-34 MS  
Matrix: Solid  
Analysis Batch: 6771

Client Sample ID: BH24-16 2'  
Prep Type: Total/NA  
Prep Batch: 6677

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Diesel Range Organics [C10-C28]	ND	F2	49.5	52.6		mg/Kg		106	44 - 136	
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>MS Limits</b>							
Di-n-octyl phthalate (Surr)	122		62 - 134							

Lab Sample ID: 885-6048-34 MSD  
Matrix: Solid  
Analysis Batch: 6771

Client Sample ID: BH24-16 2'  
Prep Type: Total/NA  
Prep Batch: 6677

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND	F2	43.0	37.8	F2	mg/Kg		88	44 - 136	33	32
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>MSD Limits</b>								
Di-n-octyl phthalate (Surr)	95		62 - 134								

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-6637/1-A  
Matrix: Solid  
Analysis Batch: 6716

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 6637

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		06/13/24 09:39	06/13/24 11:27	1

Lab Sample ID: LCS 885-6637/2-A  
Matrix: Solid  
Analysis Batch: 6716

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 6637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	28.7		mg/Kg		96	90 - 110

Lab Sample ID: MB 885-6715/1-A  
Matrix: Solid  
Analysis Batch: 6720

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 6715

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		06/14/24 07:43	06/14/24 14:19	1

Lab Sample ID: LCS 885-6715/2-A  
Matrix: Solid  
Analysis Batch: 6720

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 6715

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	27.8		mg/Kg		93	90 - 110

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### QC Sample Results

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

#### Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 885-6048-10 MS  
Matrix: Solid  
Analysis Batch: 6720

Client Sample ID: BH24-10 0'  
Prep Type: Total/NA  
Prep Batch: 6715

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	60		29.7	103		mg/Kg		144	50 - 150

Lab Sample ID: 885-6048-10 MSD  
Matrix: Solid  
Analysis Batch: 6720

Client Sample ID: BH24-10 0'  
Prep Type: Total/NA  
Prep Batch: 6715

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	60		29.8	87.7		mg/Kg		92	50 - 150	16	20

Lab Sample ID: 885-6048-11 MS  
Matrix: Solid  
Analysis Batch: 6720

Client Sample ID: BH24-11 0'  
Prep Type: Total/NA  
Prep Batch: 6715

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		30.2	ND		mg/Kg		NC	50 - 150

Lab Sample ID: 885-6048-11 MSD  
Matrix: Solid  
Analysis Batch: 6720

Client Sample ID: BH24-11 0'  
Prep Type: Total/NA  
Prep Batch: 6715

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		29.8	ND		mg/Kg		NC	50 - 150	NC	20

Lab Sample ID: MB 885-6732/1-A  
Matrix: Solid  
Analysis Batch: 6784

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 6732

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		06/14/24 09:56	06/14/24 12:39	1

Lab Sample ID: LCS 885-6732/2-A  
Matrix: Solid  
Analysis Batch: 6784

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 6732

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0	14.8		mg/Kg		98	90 - 110

Lab Sample ID: MB 885-6869/1-A  
Matrix: Solid  
Analysis Batch: 6873

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 6869

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		06/18/24 07:19	06/18/24 13:58	1

Lab Sample ID: LCS 885-6869/2-A  
Matrix: Solid  
Analysis Batch: 6873

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 6869

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	28.3		mg/Kg		94	90 - 110

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### QC Association Summary

Client: Vertex  
 Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

#### GC VOA

##### Prep Batch: 6627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6048-1	BH24-01 0'	Total/NA	Solid	5030C	
885-6048-2	BH24-02 0'	Total/NA	Solid	5030C	
885-6048-3	BH24-03 0'	Total/NA	Solid	5030C	
885-6048-4	BH24-04 0'	Total/NA	Solid	5030C	
885-6048-5	BH24-05 0'	Total/NA	Solid	5030C	
885-6048-7	BH24-07 0'	Total/NA	Solid	5030C	
885-6048-8	BH24-08 0'	Total/NA	Solid	5030C	
885-6048-10	BH24-10 0'	Total/NA	Solid	5030C	
885-6048-11	BH24-11 0'	Total/NA	Solid	5030C	
885-6048-12	BH24-12 0'	Total/NA	Solid	5030C	
885-6048-13	BH24-13 0'	Total/NA	Solid	5030C	
885-6048-14	BH24-14 0'	Total/NA	Solid	5030C	
885-6048-15	BH24-15 0'	Total/NA	Solid	5030C	
885-6048-16	BH24-16 0'	Total/NA	Solid	5030C	
885-6048-17	BH24-01 2'	Total/NA	Solid	5030C	
885-6048-18	BH24-02 2'	Total/NA	Solid	5030C	
885-6048-19	BH24-03 2'	Total/NA	Solid	5030C	
885-6048-20	BH24-04 2'	Total/NA	Solid	5030C	
885-6048-21	BH24-05 2'	Total/NA	Solid	5030C	
885-6048-22	BH24-06 0'	Total/NA	Solid	5030C	
MB 885-6627/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-6627/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-6627/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-6048-1 MS	BH24-01 0'	Total/NA	Solid	5030C	
885-6048-1 MSD	BH24-01 0'	Total/NA	Solid	5030C	
885-6048-2 MS	BH24-02 0'	Total/NA	Solid	5030C	
885-6048-2 MSD	BH24-02 0'	Total/NA	Solid	5030C	

##### Prep Batch: 6642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6048-23	BH24-06 2'	Total/NA	Solid	5030C	
885-6048-24	BH24-07 2'	Total/NA	Solid	5030C	
885-6048-25	BH24-08 2'	Total/NA	Solid	5030C	
885-6048-26	BH24-09 0'	Total/NA	Solid	5030C	
885-6048-27	BH24-09 2'	Total/NA	Solid	5030C	
885-6048-28	BH24-10 2'	Total/NA	Solid	5030C	
885-6048-29	BH24-11 2'	Total/NA	Solid	5030C	
885-6048-30	BH24-12 2'	Total/NA	Solid	5030C	
885-6048-31	BH24-13 2'	Total/NA	Solid	5030C	
885-6048-32	BH24-14 2'	Total/NA	Solid	5030C	
885-6048-33	BH24-15 2'	Total/NA	Solid	5030C	
885-6048-34	BH24-16 2'	Total/NA	Solid	5030C	
MB 885-6642/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-6642/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-6642/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-6048-23 MS	BH24-06 2'	Total/NA	Solid	5030C	
885-6048-23 MSD	BH24-06 2'	Total/NA	Solid	5030C	
885-6048-24 MS	BH24-07 2'	Total/NA	Solid	5030C	
885-6048-24 MSD	BH24-07 2'	Total/NA	Solid	5030C	

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### QC Association Summary

Client: Vertex  
 Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

#### GC VOA

##### Analysis Batch: 6817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6048-23	BH24-06 2'	Total/NA	Solid	8015M/D	6642
885-6048-24	BH24-07 2'	Total/NA	Solid	8015M/D	6642
885-6048-25	BH24-08 2'	Total/NA	Solid	8015M/D	6642
885-6048-26	BH24-09 0'	Total/NA	Solid	8015M/D	6642
885-6048-27	BH24-09 2'	Total/NA	Solid	8015M/D	6642
885-6048-28	BH24-10 2'	Total/NA	Solid	8015M/D	6642
885-6048-29	BH24-11 2'	Total/NA	Solid	8015M/D	6642
885-6048-30	BH24-12 2'	Total/NA	Solid	8015M/D	6642
885-6048-31	BH24-13 2'	Total/NA	Solid	8015M/D	6642
885-6048-32	BH24-14 2'	Total/NA	Solid	8015M/D	6642
885-6048-33	BH24-15 2'	Total/NA	Solid	8015M/D	6642
885-6048-34	BH24-16 2'	Total/NA	Solid	8015M/D	6642
MB 885-6642/1-A	Method Blank	Total/NA	Solid	8015M/D	6642
LCS 885-6642/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	6642
885-6048-23 MS	BH24-06 2'	Total/NA	Solid	8015M/D	6642
885-6048-23 MSD	BH24-06 2'	Total/NA	Solid	8015M/D	6642

##### Analysis Batch: 6818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6048-23	BH24-06 2'	Total/NA	Solid	8021B	6642
885-6048-24	BH24-07 2'	Total/NA	Solid	8021B	6642
885-6048-25	BH24-08 2'	Total/NA	Solid	8021B	6642
885-6048-26	BH24-09 0'	Total/NA	Solid	8021B	6642
885-6048-27	BH24-09 2'	Total/NA	Solid	8021B	6642
885-6048-28	BH24-10 2'	Total/NA	Solid	8021B	6642
885-6048-29	BH24-11 2'	Total/NA	Solid	8021B	6642
885-6048-30	BH24-12 2'	Total/NA	Solid	8021B	6642
885-6048-31	BH24-13 2'	Total/NA	Solid	8021B	6642
885-6048-32	BH24-14 2'	Total/NA	Solid	8021B	6642
885-6048-33	BH24-15 2'	Total/NA	Solid	8021B	6642
885-6048-34	BH24-16 2'	Total/NA	Solid	8021B	6642
MB 885-6642/1-A	Method Blank	Total/NA	Solid	8021B	6642
LCS 885-6642/3-A	Lab Control Sample	Total/NA	Solid	8021B	6642
885-6048-24 MS	BH24-07 2'	Total/NA	Solid	8021B	6642
885-6048-24 MSD	BH24-07 2'	Total/NA	Solid	8021B	6642

##### Analysis Batch: 6831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6048-1	BH24-01 0'	Total/NA	Solid	8015M/D	6627
885-6048-2	BH24-02 0'	Total/NA	Solid	8015M/D	6627
885-6048-3	BH24-03 0'	Total/NA	Solid	8015M/D	6627
885-6048-4	BH24-04 0'	Total/NA	Solid	8015M/D	6627
885-6048-5	BH24-05 0'	Total/NA	Solid	8015M/D	6627
885-6048-7	BH24-07 0'	Total/NA	Solid	8015M/D	6627
885-6048-8	BH24-08 0'	Total/NA	Solid	8015M/D	6627
885-6048-10	BH24-10 0'	Total/NA	Solid	8015M/D	6627
885-6048-11	BH24-11 0'	Total/NA	Solid	8015M/D	6627
885-6048-12	BH24-12 0'	Total/NA	Solid	8015M/D	6627
885-6048-13	BH24-13 0'	Total/NA	Solid	8015M/D	6627
885-6048-14	BH24-14 0'	Total/NA	Solid	8015M/D	6627
885-6048-15	BH24-15 0'	Total/NA	Solid	8015M/D	6627

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## QC Association Summary

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

## GC VOA (Continued)

## Analysis Batch: 6831 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6048-16	BH24-16 0'	Total/NA	Solid	8015M/D	6627
885-6048-17	BH24-01 2'	Total/NA	Solid	8015M/D	6627
885-6048-18	BH24-02 2'	Total/NA	Solid	8015M/D	6627
885-6048-19	BH24-03 2'	Total/NA	Solid	8015M/D	6627
885-6048-20	BH24-04 2'	Total/NA	Solid	8015M/D	6627
885-6048-21	BH24-05 2'	Total/NA	Solid	8015M/D	6627
885-6048-22	BH24-06 0'	Total/NA	Solid	8015M/D	6627
MB 885-6627/1-A	Method Blank	Total/NA	Solid	8015M/D	6627
LCS 885-6627/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	6627
885-6048-1 MS	BH24-01 0'	Total/NA	Solid	8015M/D	6627
885-6048-1 MSD	BH24-01 0'	Total/NA	Solid	8015M/D	6627

## Analysis Batch: 6832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6048-1	BH24-01 0'	Total/NA	Solid	8021B	6627
885-6048-2	BH24-02 0'	Total/NA	Solid	8021B	6627
885-6048-3	BH24-03 0'	Total/NA	Solid	8021B	6627
885-6048-4	BH24-04 0'	Total/NA	Solid	8021B	6627
885-6048-5	BH24-05 0'	Total/NA	Solid	8021B	6627
885-6048-7	BH24-07 0'	Total/NA	Solid	8021B	6627
885-6048-8	BH24-08 0'	Total/NA	Solid	8021B	6627
885-6048-10	BH24-10 0'	Total/NA	Solid	8021B	6627
885-6048-11	BH24-11 0'	Total/NA	Solid	8021B	6627
885-6048-12	BH24-12 0'	Total/NA	Solid	8021B	6627
885-6048-13	BH24-13 0'	Total/NA	Solid	8021B	6627
885-6048-14	BH24-14 0'	Total/NA	Solid	8021B	6627
885-6048-15	BH24-15 0'	Total/NA	Solid	8021B	6627
885-6048-16	BH24-16 0'	Total/NA	Solid	8021B	6627
885-6048-17	BH24-01 2'	Total/NA	Solid	8021B	6627
885-6048-18	BH24-02 2'	Total/NA	Solid	8021B	6627
885-6048-19	BH24-03 2'	Total/NA	Solid	8021B	6627
885-6048-20	BH24-04 2'	Total/NA	Solid	8021B	6627
885-6048-21	BH24-05 2'	Total/NA	Solid	8021B	6627
885-6048-22	BH24-06 0'	Total/NA	Solid	8021B	6627
MB 885-6627/1-A	Method Blank	Total/NA	Solid	8021B	6627
LCS 885-6627/3-A	Lab Control Sample	Total/NA	Solid	8021B	6627
885-6048-2 MS	BH24-02 0'	Total/NA	Solid	8021B	6627
885-6048-2 MSD	BH24-02 0'	Total/NA	Solid	8021B	6627

## GC Semi VOA

## Prep Batch: 6645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6048-1	BH24-01 0'	Total/NA	Solid	SHAKE	
885-6048-2	BH24-02 0'	Total/NA	Solid	SHAKE	
885-6048-3	BH24-03 0'	Total/NA	Solid	SHAKE	
885-6048-4	BH24-04 0'	Total/NA	Solid	SHAKE	
885-6048-5	BH24-05 0'	Total/NA	Solid	SHAKE	
885-6048-7	BH24-07 0'	Total/NA	Solid	SHAKE	
885-6048-8	BH24-08 0'	Total/NA	Solid	SHAKE	
885-6048-10	BH24-10 0'	Total/NA	Solid	SHAKE	

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## QC Association Summary

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

## GC Semi VOA (Continued)

## Prep Batch: 6645 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6048-11	BH24-11 0'	Total/NA	Solid	SHAKE	
885-6048-12	BH24-12 0'	Total/NA	Solid	SHAKE	
885-6048-13	BH24-13 0'	Total/NA	Solid	SHAKE	
885-6048-14	BH24-14 0'	Total/NA	Solid	SHAKE	
885-6048-15	BH24-15 0'	Total/NA	Solid	SHAKE	
885-6048-16	BH24-16 0'	Total/NA	Solid	SHAKE	
885-6048-17	BH24-01 2'	Total/NA	Solid	SHAKE	
885-6048-18	BH24-02 2'	Total/NA	Solid	SHAKE	
885-6048-19	BH24-03 2'	Total/NA	Solid	SHAKE	
885-6048-20	BH24-04 2'	Total/NA	Solid	SHAKE	
885-6048-21	BH24-05 2'	Total/NA	Solid	SHAKE	
885-6048-22	BH24-06 0'	Total/NA	Solid	SHAKE	
MB 885-6645/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-6645/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

## Prep Batch: 6677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6048-23	BH24-06 2'	Total/NA	Solid	SHAKE	
885-6048-24	BH24-07 2'	Total/NA	Solid	SHAKE	
885-6048-25	BH24-08 2'	Total/NA	Solid	SHAKE	
885-6048-26	BH24-09 0'	Total/NA	Solid	SHAKE	
885-6048-27	BH24-09 2'	Total/NA	Solid	SHAKE	
885-6048-28	BH24-10 2'	Total/NA	Solid	SHAKE	
885-6048-29	BH24-11 2'	Total/NA	Solid	SHAKE	
885-6048-30	BH24-12 2'	Total/NA	Solid	SHAKE	
885-6048-31	BH24-13 2'	Total/NA	Solid	SHAKE	
885-6048-32	BH24-14 2'	Total/NA	Solid	SHAKE	
885-6048-33	BH24-15 2'	Total/NA	Solid	SHAKE	
885-6048-34	BH24-16 2'	Total/NA	Solid	SHAKE	
MB 885-6677/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-6677/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-6048-34 MS	BH24-16 2'	Total/NA	Solid	SHAKE	
885-6048-34 MSD	BH24-16 2'	Total/NA	Solid	SHAKE	

## Analysis Batch: 6757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6048-13	BH24-13 0'	Total/NA	Solid	8015M/D	6645
885-6048-17	BH24-01 2'	Total/NA	Solid	8015M/D	6645
885-6048-18	BH24-02 2'	Total/NA	Solid	8015M/D	6645
885-6048-19	BH24-03 2'	Total/NA	Solid	8015M/D	6645
885-6048-20	BH24-04 2'	Total/NA	Solid	8015M/D	6645
885-6048-21	BH24-05 2'	Total/NA	Solid	8015M/D	6645
885-6048-22	BH24-06 0'	Total/NA	Solid	8015M/D	6645
MB 885-6645/1-A	Method Blank	Total/NA	Solid	8015M/D	6645
LCS 885-6645/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	6645

## Analysis Batch: 6771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6048-23	BH24-06 2'	Total/NA	Solid	8015M/D	6677
885-6048-24	BH24-07 2'	Total/NA	Solid	8015M/D	6677
885-6048-25	BH24-08 2'	Total/NA	Solid	8015M/D	6677

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## QC Association Summary

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

## GC Semi VOA (Continued)

## Analysis Batch: 6771 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6048-26	BH24-09 0'	Total/NA	Solid	8015M/D	6677
885-6048-27	BH24-09 2'	Total/NA	Solid	8015M/D	6677
885-6048-28	BH24-10 2'	Total/NA	Solid	8015M/D	6677
885-6048-29	BH24-11 2'	Total/NA	Solid	8015M/D	6677
885-6048-30	BH24-12 2'	Total/NA	Solid	8015M/D	6677
885-6048-31	BH24-13 2'	Total/NA	Solid	8015M/D	6677
885-6048-32	BH24-14 2'	Total/NA	Solid	8015M/D	6677
885-6048-33	BH24-15 2'	Total/NA	Solid	8015M/D	6677
885-6048-34	BH24-16 2'	Total/NA	Solid	8015M/D	6677
MB 885-6677/1-A	Method Blank	Total/NA	Solid	8015M/D	6677
LCS 885-6677/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	6677
885-6048-34 MS	BH24-16 2'	Total/NA	Solid	8015M/D	6677
885-6048-34 MSD	BH24-16 2'	Total/NA	Solid	8015M/D	6677

## Analysis Batch: 6837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6048-1	BH24-01 0'	Total/NA	Solid	8015M/D	6645
885-6048-2	BH24-02 0'	Total/NA	Solid	8015M/D	6645
885-6048-3	BH24-03 0'	Total/NA	Solid	8015M/D	6645
885-6048-4	BH24-04 0'	Total/NA	Solid	8015M/D	6645
885-6048-5	BH24-05 0'	Total/NA	Solid	8015M/D	6645
885-6048-7	BH24-07 0'	Total/NA	Solid	8015M/D	6645
885-6048-8	BH24-08 0'	Total/NA	Solid	8015M/D	6645
885-6048-10	BH24-10 0'	Total/NA	Solid	8015M/D	6645
885-6048-11	BH24-11 0'	Total/NA	Solid	8015M/D	6645
885-6048-12	BH24-12 0'	Total/NA	Solid	8015M/D	6645
885-6048-14	BH24-14 0'	Total/NA	Solid	8015M/D	6645
885-6048-15	BH24-15 0'	Total/NA	Solid	8015M/D	6645
885-6048-16	BH24-16 0'	Total/NA	Solid	8015M/D	6645

## HPLC/IC

## Prep Batch: 6637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6048-1	BH24-01 0'	Total/NA	Solid	300_Prep	
885-6048-2	BH24-02 0'	Total/NA	Solid	300_Prep	
885-6048-3	BH24-03 0'	Total/NA	Solid	300_Prep	
885-6048-4	BH24-04 0'	Total/NA	Solid	300_Prep	
885-6048-5	BH24-05 0'	Total/NA	Solid	300_Prep	
885-6048-7	BH24-07 0'	Total/NA	Solid	300_Prep	
885-6048-8	BH24-08 0'	Total/NA	Solid	300_Prep	
MB 885-6637/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-6637/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

## Prep Batch: 6715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6048-10	BH24-10 0'	Total/NA	Solid	300_Prep	
885-6048-11	BH24-11 0'	Total/NA	Solid	300_Prep	
885-6048-12	BH24-12 0'	Total/NA	Solid	300_Prep	
885-6048-13	BH24-13 0'	Total/NA	Solid	300_Prep	
885-6048-14	BH24-14 0'	Total/NA	Solid	300_Prep	

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### QC Association Summary

Client: Vertex  
 Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

#### HPLC/IC (Continued)

##### Prep Batch: 6715 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6048-15	BH24-15 0'	Total/NA	Solid	300_Prep	
885-6048-16	BH24-16 0'	Total/NA	Solid	300_Prep	
885-6048-17	BH24-01 2'	Total/NA	Solid	300_Prep	
885-6048-18	BH24-02 2'	Total/NA	Solid	300_Prep	
885-6048-19	BH24-03 2'	Total/NA	Solid	300_Prep	
885-6048-20	BH24-04 2'	Total/NA	Solid	300_Prep	
885-6048-21	BH24-05 2'	Total/NA	Solid	300_Prep	
885-6048-22	BH24-06 0'	Total/NA	Solid	300_Prep	
885-6048-23	BH24-06 2'	Total/NA	Solid	300_Prep	
885-6048-24	BH24-07 2'	Total/NA	Solid	300_Prep	
885-6048-25	BH24-08 2'	Total/NA	Solid	300_Prep	
885-6048-26	BH24-09 0'	Total/NA	Solid	300_Prep	
885-6048-27	BH24-09 2'	Total/NA	Solid	300_Prep	
885-6048-28	BH24-10 2'	Total/NA	Solid	300_Prep	
885-6048-29	BH24-11 2'	Total/NA	Solid	300_Prep	
MB 885-6715/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-6715/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-6048-10 MS	BH24-10 0'	Total/NA	Solid	300_Prep	
885-6048-10 MSD	BH24-10 0'	Total/NA	Solid	300_Prep	
885-6048-11 MS	BH24-11 0'	Total/NA	Solid	300_Prep	
885-6048-11 MSD	BH24-11 0'	Total/NA	Solid	300_Prep	

##### Analysis Batch: 6716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6048-1	BH24-01 0'	Total/NA	Solid	300.0	6637
885-6048-2	BH24-02 0'	Total/NA	Solid	300.0	6637
885-6048-3	BH24-03 0'	Total/NA	Solid	300.0	6637
885-6048-4	BH24-04 0'	Total/NA	Solid	300.0	6637
885-6048-5	BH24-05 0'	Total/NA	Solid	300.0	6637
885-6048-7	BH24-07 0'	Total/NA	Solid	300.0	6637
885-6048-8	BH24-08 0'	Total/NA	Solid	300.0	6637
MB 885-6637/1-A	Method Blank	Total/NA	Solid	300.0	6637
LCS 885-6637/2-A	Lab Control Sample	Total/NA	Solid	300.0	6637

##### Analysis Batch: 6720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6048-10	BH24-10 0'	Total/NA	Solid	300.0	6715
885-6048-11	BH24-11 0'	Total/NA	Solid	300.0	6715
885-6048-12	BH24-12 0'	Total/NA	Solid	300.0	6715
885-6048-13	BH24-13 0'	Total/NA	Solid	300.0	6715
885-6048-14	BH24-14 0'	Total/NA	Solid	300.0	6715
885-6048-15	BH24-15 0'	Total/NA	Solid	300.0	6715
885-6048-16	BH24-16 0'	Total/NA	Solid	300.0	6715
885-6048-17	BH24-01 2'	Total/NA	Solid	300.0	6715
885-6048-18	BH24-02 2'	Total/NA	Solid	300.0	6715
885-6048-19	BH24-03 2'	Total/NA	Solid	300.0	6715
885-6048-20	BH24-04 2'	Total/NA	Solid	300.0	6715
885-6048-21	BH24-05 2'	Total/NA	Solid	300.0	6715
885-6048-22	BH24-06 0'	Total/NA	Solid	300.0	6715
885-6048-23	BH24-06 2'	Total/NA	Solid	300.0	6715
885-6048-24	BH24-07 2'	Total/NA	Solid	300.0	6715

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### QC Association Summary

Client: Vertex  
 Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

#### HPLC/IC (Continued)

##### Analysis Batch: 6720 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6048-25	BH24-08 2'	Total/NA	Solid	300.0	6715
885-6048-26	BH24-09 0'	Total/NA	Solid	300.0	6715
885-6048-27	BH24-09 2'	Total/NA	Solid	300.0	6715
885-6048-28	BH24-10 2'	Total/NA	Solid	300.0	6715
885-6048-29	BH24-11 2'	Total/NA	Solid	300.0	6715
MB 885-6715/1-A	Method Blank	Total/NA	Solid	300.0	6715
LCS 885-6715/2-A	Lab Control Sample	Total/NA	Solid	300.0	6715
885-6048-10 MS	BH24-10 0'	Total/NA	Solid	300.0	6715
885-6048-10 MSD	BH24-10 0'	Total/NA	Solid	300.0	6715
885-6048-11 MS	BH24-11 0'	Total/NA	Solid	300.0	6715
885-6048-11 MSD	BH24-11 0'	Total/NA	Solid	300.0	6715

##### Prep Batch: 6732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6048-30	BH24-12 2'	Total/NA	Solid	300_Prep	
MB 885-6732/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-6732/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

##### Analysis Batch: 6784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6048-30	BH24-12 2'	Total/NA	Solid	300.0	6732
MB 885-6732/1-A	Method Blank	Total/NA	Solid	300.0	6732
LCS 885-6732/2-A	Lab Control Sample	Total/NA	Solid	300.0	6732

##### Prep Batch: 6869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6048-31	BH24-13 2'	Total/NA	Solid	300_Prep	
885-6048-32	BH24-14 2'	Total/NA	Solid	300_Prep	
885-6048-33	BH24-15 2'	Total/NA	Solid	300_Prep	
885-6048-34	BH24-16 2'	Total/NA	Solid	300_Prep	
MB 885-6869/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-6869/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

##### Analysis Batch: 6873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6048-31	BH24-13 2'	Total/NA	Solid	300.0	6869
885-6048-32	BH24-14 2'	Total/NA	Solid	300.0	6869
885-6048-33	BH24-15 2'	Total/NA	Solid	300.0	6869
885-6048-34	BH24-16 2'	Total/NA	Solid	300.0	6869
MB 885-6869/1-A	Method Blank	Total/NA	Solid	300.0	6869
LCS 885-6869/2-A	Lab Control Sample	Total/NA	Solid	300.0	6869

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### Lab Chronicle

Client: Vertex  
 Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

**Client Sample ID: BH24-01 0'**

**Lab Sample ID: 885-6048-1**

Date Collected: 06/06/24 09:00

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8015M/D		1	6831	JP	EET ALB	06/16/24 19:58
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8021B		1	6832	JP	EET ALB	06/16/24 19:58
Total/NA	Prep	SHAKE			6645	JU	EET ALB	06/13/24 10:36
Total/NA	Analysis	8015M/D		1	6837	DH	EET ALB	06/14/24 11:21
Total/NA	Prep	300_Prep			6637	JT	EET ALB	06/13/24 09:39
Total/NA	Analysis	300.0		20	6716	RC	EET ALB	06/13/24 20:55

**Client Sample ID: BH24-02 0'**

**Lab Sample ID: 885-6048-2**

Date Collected: 06/06/24 09:10

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8015M/D		1	6831	JP	EET ALB	06/16/24 21:09
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8021B		1	6832	JP	EET ALB	06/16/24 21:09
Total/NA	Prep	SHAKE			6645	JU	EET ALB	06/13/24 10:36
Total/NA	Analysis	8015M/D		1	6837	DH	EET ALB	06/14/24 11:44
Total/NA	Prep	300_Prep			6637	JT	EET ALB	06/13/24 09:39
Total/NA	Analysis	300.0		20	6716	RC	EET ALB	06/13/24 21:08

**Client Sample ID: BH24-03 0'**

**Lab Sample ID: 885-6048-3**

Date Collected: 06/06/24 09:20

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8015M/D		1	6831	JP	EET ALB	06/16/24 22:19
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8021B		1	6832	JP	EET ALB	06/16/24 22:19
Total/NA	Prep	SHAKE			6645	JU	EET ALB	06/13/24 10:36
Total/NA	Analysis	8015M/D		1	6837	DH	EET ALB	06/14/24 12:08
Total/NA	Prep	300_Prep			6637	JT	EET ALB	06/13/24 09:39
Total/NA	Analysis	300.0		20	6716	RC	EET ALB	06/13/24 21:20

**Client Sample ID: BH24-04 0'**

**Lab Sample ID: 885-6048-4**

Date Collected: 06/06/24 09:30

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8015M/D		1	6831	JP	EET ALB	06/16/24 22:42

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### Lab Chronicle

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

**Client Sample ID: BH24-04 0'**

**Lab Sample ID: 885-6048-4**

Date Collected: 06/06/24 09:30

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8021B		1	6832	JP	EET ALB	06/16/24 22:42
Total/NA	Prep	SHAKE			6645	JU	EET ALB	06/13/24 10:36
Total/NA	Analysis	8015M/D		1	6837	DH	EET ALB	06/14/24 12:32
Total/NA	Prep	300_Prep			6637	JT	EET ALB	06/13/24 09:39
Total/NA	Analysis	300.0		20	6716	RC	EET ALB	06/13/24 21:32

**Client Sample ID: BH24-05 0'**

**Lab Sample ID: 885-6048-5**

Date Collected: 06/06/24 09:40

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8015M/D		1	6831	JP	EET ALB	06/16/24 23:06
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8021B		1	6832	JP	EET ALB	06/16/24 23:06
Total/NA	Prep	SHAKE			6645	JU	EET ALB	06/13/24 10:36
Total/NA	Analysis	8015M/D		1	6837	DH	EET ALB	06/14/24 12:56
Total/NA	Prep	300_Prep			6637	JT	EET ALB	06/13/24 09:39
Total/NA	Analysis	300.0		20	6716	RC	EET ALB	06/13/24 21:45

**Client Sample ID: BH24-07 0'**

**Lab Sample ID: 885-6048-7**

Date Collected: 06/06/24 11:00

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8015M/D		1	6831	JP	EET ALB	06/16/24 23:29
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8021B		1	6832	JP	EET ALB	06/16/24 23:29
Total/NA	Prep	SHAKE			6645	JU	EET ALB	06/13/24 10:36
Total/NA	Analysis	8015M/D		1	6837	DH	EET ALB	06/14/24 13:19
Total/NA	Prep	300_Prep			6637	JT	EET ALB	06/13/24 09:39
Total/NA	Analysis	300.0		20	6716	RC	EET ALB	06/13/24 21:57

**Client Sample ID: BH24-08 0'**

**Lab Sample ID: 885-6048-8**

Date Collected: 06/06/24 11:10

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8015M/D		1	6831	JP	EET ALB	06/16/24 23:53
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8021B		1	6832	JP	EET ALB	06/16/24 23:53

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### Lab Chronicle

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

**Client Sample ID: BH24-08 0'**

**Lab Sample ID: 885-6048-8**

Date Collected: 06/06/24 11:10

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			6645	JU	EET ALB	06/13/24 10:36
Total/NA	Analysis	8015M/D		1	6837	DH	EET ALB	06/14/24 13:43
Total/NA	Prep	300_Prep			6637	JT	EET ALB	06/13/24 09:39
Total/NA	Analysis	300.0		20	6716	RC	EET ALB	06/13/24 22:09

**Client Sample ID: BH24-10 0'**

**Lab Sample ID: 885-6048-10**

Date Collected: 06/06/24 13:00

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8015M/D		1	6831	JP	EET ALB	06/17/24 00:16
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8021B		1	6832	JP	EET ALB	06/17/24 00:16
Total/NA	Prep	SHAKE			6645	JU	EET ALB	06/13/24 10:36
Total/NA	Analysis	8015M/D		1	6837	DH	EET ALB	06/14/24 14:07
Total/NA	Prep	300_Prep			6715	JT	EET ALB	06/14/24 07:43
Total/NA	Analysis	300.0		20	6720	JT	EET ALB	06/14/24 15:32

**Client Sample ID: BH24-11 0'**

**Lab Sample ID: 885-6048-11**

Date Collected: 06/06/24 13:10

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8015M/D		1	6831	JP	EET ALB	06/17/24 00:39
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8021B		1	6832	JP	EET ALB	06/17/24 00:39
Total/NA	Prep	SHAKE			6645	JU	EET ALB	06/13/24 10:36
Total/NA	Analysis	8015M/D		1	6837	DH	EET ALB	06/14/24 14:31
Total/NA	Prep	300_Prep			6715	JT	EET ALB	06/14/24 07:43
Total/NA	Analysis	300.0		20	6720	JT	EET ALB	06/14/24 16:10

**Client Sample ID: BH24-12 0'**

**Lab Sample ID: 885-6048-12**

Date Collected: 06/06/24 13:20

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8015M/D		1	6831	JP	EET ALB	06/17/24 01:03
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8021B		1	6832	JP	EET ALB	06/17/24 01:03
Total/NA	Prep	SHAKE			6645	JU	EET ALB	06/13/24 10:36
Total/NA	Analysis	8015M/D		1	6837	DH	EET ALB	06/14/24 14:54

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### Lab Chronicle

Client: Vertex  
 Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

**Client Sample ID: BH24-12 0'**

**Lab Sample ID: 885-6048-12**

Date Collected: 06/06/24 13:20

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			6715	JT	EET ALB	06/14/24 07:43
Total/NA	Analysis	300.0		20	6720	JT	EET ALB	06/14/24 16:49

**Client Sample ID: BH24-13 0'**

**Lab Sample ID: 885-6048-13**

Date Collected: 06/06/24 13:10

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8015M/D		1	6831	JP	EET ALB	06/17/24 02:13
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8021B		1	6832	JP	EET ALB	06/17/24 02:13
Total/NA	Prep	SHAKE			6645	JU	EET ALB	06/13/24 10:36
Total/NA	Analysis	8015M/D		1	6757	JU	EET ALB	06/13/24 22:39
Total/NA	Prep	300_Prep			6715	JT	EET ALB	06/14/24 07:43
Total/NA	Analysis	300.0		20	6720	JT	EET ALB	06/14/24 17:01

**Client Sample ID: BH24-14 0'**

**Lab Sample ID: 885-6048-14**

Date Collected: 06/06/24 13:20

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8015M/D		1	6831	JP	EET ALB	06/17/24 02:37
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8021B		1	6832	JP	EET ALB	06/17/24 02:37
Total/NA	Prep	SHAKE			6645	JU	EET ALB	06/13/24 10:36
Total/NA	Analysis	8015M/D		1	6837	DH	EET ALB	06/14/24 15:18
Total/NA	Prep	300_Prep			6715	JT	EET ALB	06/14/24 07:43
Total/NA	Analysis	300.0		20	6720	JT	EET ALB	06/14/24 17:40

**Client Sample ID: BH24-15 0'**

**Lab Sample ID: 885-6048-15**

Date Collected: 06/06/24 13:30

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8015M/D		1	6831	JP	EET ALB	06/17/24 03:01
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8021B		1	6832	JP	EET ALB	06/17/24 03:01
Total/NA	Prep	SHAKE			6645	JU	EET ALB	06/13/24 10:36
Total/NA	Analysis	8015M/D		1	6837	DH	EET ALB	06/14/24 15:42
Total/NA	Prep	300_Prep			6715	JT	EET ALB	06/14/24 07:43
Total/NA	Analysis	300.0		20	6720	JT	EET ALB	06/14/24 17:53

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### Lab Chronicle

Client: Vertex  
 Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

**Client Sample ID: BH24-16 0'**

**Lab Sample ID: 885-6048-16**

Date Collected: 06/06/24 13:40

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8015M/D		1	6831	JP	EET ALB	06/17/24 03:24
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8021B		1	6832	JP	EET ALB	06/17/24 03:24
Total/NA	Prep	SHAKE			6645	JU	EET ALB	06/13/24 10:36
Total/NA	Analysis	8015M/D		1	6837	DH	EET ALB	06/14/24 16:06
Total/NA	Prep	300_Prep			6715	JT	EET ALB	06/14/24 07:43
Total/NA	Analysis	300.0		20	6720	JT	EET ALB	06/14/24 18:06

**Client Sample ID: BH24-01 2'**

**Lab Sample ID: 885-6048-17**

Date Collected: 06/07/24 09:00

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8015M/D		1	6831	JP	EET ALB	06/17/24 03:47
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8021B		1	6832	JP	EET ALB	06/17/24 03:47
Total/NA	Prep	SHAKE			6645	JU	EET ALB	06/13/24 10:36
Total/NA	Analysis	8015M/D		1	6757	JU	EET ALB	06/14/24 00:20
Total/NA	Prep	300_Prep			6715	JT	EET ALB	06/14/24 07:43
Total/NA	Analysis	300.0		20	6720	JT	EET ALB	06/14/24 18:19

**Client Sample ID: BH24-02 2'**

**Lab Sample ID: 885-6048-18**

Date Collected: 06/07/24 09:10

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8015M/D		1	6831	JP	EET ALB	06/17/24 04:11
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8021B		1	6832	JP	EET ALB	06/17/24 04:11
Total/NA	Prep	SHAKE			6645	JU	EET ALB	06/13/24 10:36
Total/NA	Analysis	8015M/D		1	6757	JU	EET ALB	06/14/24 00:45
Total/NA	Prep	300_Prep			6715	JT	EET ALB	06/14/24 07:43
Total/NA	Analysis	300.0		20	6720	JT	EET ALB	06/14/24 18:31

**Client Sample ID: BH24-03 2'**

**Lab Sample ID: 885-6048-19**

Date Collected: 06/07/24 09:30

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8015M/D		1	6831	JP	EET ALB	06/17/24 04:34

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### Lab Chronicle

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

**Client Sample ID: BH24-03 2'**

**Lab Sample ID: 885-6048-19**

Date Collected: 06/07/24 09:30

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8021B		1	6832	JP	EET ALB	06/17/24 04:34
Total/NA	Prep	SHAKE			6645	JU	EET ALB	06/13/24 10:36
Total/NA	Analysis	8015M/D		1	6757	JU	EET ALB	06/14/24 01:11
Total/NA	Prep	300_Prep			6715	JT	EET ALB	06/14/24 07:43
Total/NA	Analysis	300.0		20	6720	JT	EET ALB	06/14/24 18:44

**Client Sample ID: BH24-04 2'**

**Lab Sample ID: 885-6048-20**

Date Collected: 06/07/24 09:40

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8015M/D		1	6831	JP	EET ALB	06/17/24 04:58
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8021B		1	6832	JP	EET ALB	06/17/24 04:58
Total/NA	Prep	SHAKE			6645	JU	EET ALB	06/13/24 10:36
Total/NA	Analysis	8015M/D		1	6757	JU	EET ALB	06/14/24 01:36
Total/NA	Prep	300_Prep			6715	JT	EET ALB	06/14/24 07:43
Total/NA	Analysis	300.0		20	6720	JT	EET ALB	06/14/24 18:57

**Client Sample ID: BH24-05 2'**

**Lab Sample ID: 885-6048-21**

Date Collected: 06/07/24 10:00

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8015M/D		1	6831	JP	EET ALB	06/17/24 05:21
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8021B		1	6832	JP	EET ALB	06/17/24 05:21
Total/NA	Prep	SHAKE			6645	JU	EET ALB	06/13/24 10:36
Total/NA	Analysis	8015M/D		1	6757	JU	EET ALB	06/14/24 02:01
Total/NA	Prep	300_Prep			6715	JT	EET ALB	06/14/24 07:43
Total/NA	Analysis	300.0		20	6720	JT	EET ALB	06/14/24 19:10

**Client Sample ID: BH24-06 0'**

**Lab Sample ID: 885-6048-22**

Date Collected: 06/07/24 10:10

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8015M/D		1	6831	JP	EET ALB	06/17/24 05:45
Total/NA	Prep	5030C			6627	AT	EET ALB	06/13/24 08:22
Total/NA	Analysis	8021B		1	6832	JP	EET ALB	06/17/24 05:45

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### Lab Chronicle

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

**Client Sample ID: BH24-06 0'**

**Lab Sample ID: 885-6048-22**

Date Collected: 06/07/24 10:10

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			6645	JU	EET ALB	06/13/24 10:36
Total/NA	Analysis	8015M/D		1	6757	JU	EET ALB	06/14/24 02:26
Total/NA	Prep	300_Prep			6715	JT	EET ALB	06/14/24 07:43
Total/NA	Analysis	300.0		20	6720	JT	EET ALB	06/14/24 19:23

**Client Sample ID: BH24-06 2'**

**Lab Sample ID: 885-6048-23**

Date Collected: 06/07/24 10:20

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6642	AT	EET ALB	06/13/24 10:17
Total/NA	Analysis	8015M/D		1	6817	JP	EET ALB	06/15/24 05:42
Total/NA	Prep	5030C			6642	AT	EET ALB	06/13/24 10:17
Total/NA	Analysis	8021B		1	6818	JP	EET ALB	06/15/24 05:42
Total/NA	Prep	SHAKE			6677	JU	EET ALB	06/13/24 15:01
Total/NA	Analysis	8015M/D		1	6771	DH	EET ALB	06/14/24 13:32
Total/NA	Prep	300_Prep			6715	JT	EET ALB	06/14/24 07:43
Total/NA	Analysis	300.0		20	6720	JT	EET ALB	06/14/24 19:36

**Client Sample ID: BH24-07 2'**

**Lab Sample ID: 885-6048-24**

Date Collected: 06/07/24 10:30

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6642	AT	EET ALB	06/13/24 10:17
Total/NA	Analysis	8015M/D		1	6817	JP	EET ALB	06/15/24 06:52
Total/NA	Prep	5030C			6642	AT	EET ALB	06/13/24 10:17
Total/NA	Analysis	8021B		1	6818	JP	EET ALB	06/15/24 06:52
Total/NA	Prep	SHAKE			6677	JU	EET ALB	06/13/24 15:01
Total/NA	Analysis	8015M/D		1	6771	DH	EET ALB	06/14/24 13:44
Total/NA	Prep	300_Prep			6715	JT	EET ALB	06/14/24 07:43
Total/NA	Analysis	300.0		20	6720	JT	EET ALB	06/14/24 20:14

**Client Sample ID: BH24-08 2'**

**Lab Sample ID: 885-6048-25**

Date Collected: 06/07/24 10:40

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6642	AT	EET ALB	06/13/24 10:17
Total/NA	Analysis	8015M/D		1	6817	JP	EET ALB	06/15/24 08:03
Total/NA	Prep	5030C			6642	AT	EET ALB	06/13/24 10:17
Total/NA	Analysis	8021B		1	6818	JP	EET ALB	06/15/24 08:03
Total/NA	Prep	SHAKE			6677	JU	EET ALB	06/13/24 15:01
Total/NA	Analysis	8015M/D		1	6771	DH	EET ALB	06/14/24 13:57

Eurofins Albuquerque

### Lab Chronicle

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

**Client Sample ID: BH24-08 2'**

**Lab Sample ID: 885-6048-25**

Date Collected: 06/07/24 10:40

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			6715	JT	EET ALB	06/14/24 07:43
Total/NA	Analysis	300.0		20	6720	JT	EET ALB	06/14/24 20:27

**Client Sample ID: BH24-09 0'**

**Lab Sample ID: 885-6048-26**

Date Collected: 06/07/24 11:00

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6642	AT	EET ALB	06/13/24 10:17
Total/NA	Analysis	8015M/D		1	6817	JP	EET ALB	06/15/24 08:27
Total/NA	Prep	5030C			6642	AT	EET ALB	06/13/24 10:17
Total/NA	Analysis	8021B		1	6818	JP	EET ALB	06/15/24 08:27
Total/NA	Prep	SHAKE			6677	JU	EET ALB	06/13/24 15:01
Total/NA	Analysis	8015M/D		1	6771	DH	EET ALB	06/14/24 14:09
Total/NA	Prep	300_Prep			6715	JT	EET ALB	06/14/24 07:43
Total/NA	Analysis	300.0		20	6720	JT	EET ALB	06/14/24 20:40

**Client Sample ID: BH24-09 2'**

**Lab Sample ID: 885-6048-27**

Date Collected: 06/07/24 11:10

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6642	AT	EET ALB	06/13/24 10:17
Total/NA	Analysis	8015M/D		1	6817	JP	EET ALB	06/15/24 09:37
Total/NA	Prep	5030C			6642	AT	EET ALB	06/13/24 10:17
Total/NA	Analysis	8021B		1	6818	JP	EET ALB	06/15/24 09:37
Total/NA	Prep	SHAKE			6677	JU	EET ALB	06/13/24 15:01
Total/NA	Analysis	8015M/D		1	6771	DH	EET ALB	06/14/24 16:48
Total/NA	Prep	300_Prep			6715	JT	EET ALB	06/14/24 07:43
Total/NA	Analysis	300.0		20	6720	JT	EET ALB	06/14/24 20:53

**Client Sample ID: BH24-10 2'**

**Lab Sample ID: 885-6048-28**

Date Collected: 06/07/24 11:20

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6642	AT	EET ALB	06/13/24 10:17
Total/NA	Analysis	8015M/D		1	6817	JP	EET ALB	06/15/24 10:00
Total/NA	Prep	5030C			6642	AT	EET ALB	06/13/24 10:17
Total/NA	Analysis	8021B		1	6818	JP	EET ALB	06/15/24 10:00
Total/NA	Prep	SHAKE			6677	JU	EET ALB	06/13/24 15:01
Total/NA	Analysis	8015M/D		1	6771	DH	EET ALB	06/14/24 17:00
Total/NA	Prep	300_Prep			6715	JT	EET ALB	06/14/24 07:43
Total/NA	Analysis	300.0		20	6720	JT	EET ALB	06/14/24 21:06

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### Lab Chronicle

Client: Vertex  
Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

**Client Sample ID: BH24-11 2'**

**Lab Sample ID: 885-6048-29**

Date Collected: 06/07/24 11:30

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6642	AT	EET ALB	06/13/24 10:17
Total/NA	Analysis	8015M/D		1	6817	JP	EET ALB	06/15/24 10:24
Total/NA	Prep	5030C			6642	AT	EET ALB	06/13/24 10:17
Total/NA	Analysis	8021B		1	6818	JP	EET ALB	06/15/24 10:24
Total/NA	Prep	SHAKE			6677	JU	EET ALB	06/13/24 15:01
Total/NA	Analysis	8015M/D		1	6771	DH	EET ALB	06/14/24 17:38
Total/NA	Prep	300_Prep			6715	JT	EET ALB	06/14/24 07:43
Total/NA	Analysis	300.0		20	6720	JT	EET ALB	06/14/24 21:19

**Client Sample ID: BH24-12 2'**

**Lab Sample ID: 885-6048-30**

Date Collected: 06/07/24 11:40

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6642	AT	EET ALB	06/13/24 10:17
Total/NA	Analysis	8015M/D		1	6817	JP	EET ALB	06/15/24 10:47
Total/NA	Prep	5030C			6642	AT	EET ALB	06/13/24 10:17
Total/NA	Analysis	8021B		1	6818	JP	EET ALB	06/15/24 10:47
Total/NA	Prep	SHAKE			6677	JU	EET ALB	06/13/24 15:01
Total/NA	Analysis	8015M/D		1	6771	DH	EET ALB	06/14/24 17:50
Total/NA	Prep	300_Prep			6732	RC	EET ALB	06/14/24 09:56
Total/NA	Analysis	300.0		20	6784	RC	EET ALB	06/14/24 18:49

**Client Sample ID: BH24-13 2'**

**Lab Sample ID: 885-6048-31**

Date Collected: 06/07/24 13:00

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6642	AT	EET ALB	06/13/24 10:17
Total/NA	Analysis	8015M/D		1	6817	JP	EET ALB	06/15/24 11:11
Total/NA	Prep	5030C			6642	AT	EET ALB	06/13/24 10:17
Total/NA	Analysis	8021B		1	6818	JP	EET ALB	06/15/24 11:11
Total/NA	Prep	SHAKE			6677	JU	EET ALB	06/13/24 15:01
Total/NA	Analysis	8015M/D		1	6771	DH	EET ALB	06/14/24 18:03
Total/NA	Prep	300_Prep			6869	JT	EET ALB	06/18/24 07:19
Total/NA	Analysis	300.0		20	6873	RC	EET ALB	06/18/24 14:24

**Client Sample ID: BH24-14 2'**

**Lab Sample ID: 885-6048-32**

Date Collected: 06/07/24 13:10

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6642	AT	EET ALB	06/13/24 10:17
Total/NA	Analysis	8015M/D		1	6817	JP	EET ALB	06/15/24 11:35

Eurofins Albuquerque

### Lab Chronicle

Client: Vertex  
 Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

**Client Sample ID: BH24-14 2'**

**Lab Sample ID: 885-6048-32**

Date Collected: 06/07/24 13:10

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6642	AT	EET ALB	06/13/24 10:17
Total/NA	Analysis	8021B		1	6818	JP	EET ALB	06/15/24 11:35
Total/NA	Prep	SHAKE			6677	JU	EET ALB	06/13/24 15:01
Total/NA	Analysis	8015M/D		1	6771	DH	EET ALB	06/14/24 18:15
Total/NA	Prep	300_Prep			6869	JT	EET ALB	06/18/24 07:19
Total/NA	Analysis	300.0		20	6873	RC	EET ALB	06/18/24 14:36

**Client Sample ID: BH24-15 2'**

**Lab Sample ID: 885-6048-33**

Date Collected: 06/07/24 13:20

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6642	AT	EET ALB	06/13/24 10:17
Total/NA	Analysis	8015M/D		1	6817	JP	EET ALB	06/15/24 11:58
Total/NA	Prep	5030C			6642	AT	EET ALB	06/13/24 10:17
Total/NA	Analysis	8021B		1	6818	JP	EET ALB	06/15/24 11:58
Total/NA	Prep	SHAKE			6677	JU	EET ALB	06/13/24 15:01
Total/NA	Analysis	8015M/D		1	6771	DH	EET ALB	06/14/24 18:28
Total/NA	Prep	300_Prep			6869	JT	EET ALB	06/18/24 07:19
Total/NA	Analysis	300.0		20	6873	RC	EET ALB	06/18/24 14:49

**Client Sample ID: BH24-16 2'**

**Lab Sample ID: 885-6048-34**

Date Collected: 06/07/24 13:30

Matrix: Solid

Date Received: 06/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			6642	AT	EET ALB	06/13/24 10:17
Total/NA	Analysis	8015M/D		1	6817	JP	EET ALB	06/15/24 12:22
Total/NA	Prep	5030C			6642	AT	EET ALB	06/13/24 10:17
Total/NA	Analysis	8021B		1	6818	JP	EET ALB	06/15/24 12:22
Total/NA	Prep	SHAKE			6677	JU	EET ALB	06/13/24 15:01
Total/NA	Analysis	8015M/D		1	6771	DH	EET ALB	06/14/24 18:40
Total/NA	Prep	300_Prep			6869	JT	EET ALB	06/18/24 07:19
Total/NA	Analysis	300.0		20	6873	RC	EET ALB	06/18/24 15:02

**Laboratory References:**

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

### Accreditation/Certification Summary

Client: Vertex  
 Project/Site: Mesa Verde 6 CTB

Job ID: 885-6048-1

#### Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does 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 [C10-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	NELAP	NM100001	02-26-25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

# Chain-of-Custody Record

Client: **Vertex (direct bill to Devon-Harvard Divest)**

Turn-Around Time:

Standard  Rush 5 Day



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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



885-6048 COC

Mailing Address: (On File)

Project Name:

**Mesa Verde 6 CTB**

Project #:

**21E-02816**

Phone #:

email or Fax#:

Project Manager:

**Kent Stallings**

QA/QC Package:

Standard  Level 4 (Full Validation)

**Kstallings@vertex.ca**

Accreditation:  Az Compliance

Sampler: **J. Rewis**

NELAC  Other \_\_\_\_\_

On Ice:  Yes  No Yog

EDD (Type) \_\_\_\_\_

# of Coolers: **1**

Cooler Temp (including CF): 0.3 + 0.2 = 0.5°C

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / 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	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)																						
6.6.24	9:00	Soil	BH24-01 0'	1, 4oz jar	Ice	1	X	X					X																									
6.6.24	9:10	Soil	BH24-02 0'	1, 4oz jar	Ice	2	X	X					X																									
6.6.24	9:20	Soil	BH24-03 0'	1, 4oz jar	Ice	3	X	X					X																									
6.6.24	9:30	Soil	BH24-04 0'	1, 4oz jar	Ice	4	X	X					X																									
6.6.24	9:40	Soil	BH24-05 0'	1, 4oz jar	Ice	5	X	X					X																									
6.6.24	9:50	Soil	BH24-06 0'	1, 4oz jar	Ice	6	X	X					X																									
6.6.24	11:00	Soil	BH24-07 0'	1, 4oz jar	Ice	7	X	X					X																									
6.6.24	11:10	Soil	BH24-08 0'	1, 4oz jar	Ice	8	X	X					X																									
6.6.24	11:20	Soil	BH24-09 0'	1, 4oz jar	Ice	9	X	X					X																									
6.6.24	13:00	Soil	BH24-10 0'	1, 4oz jar	Ice	10	X	X					X																									
6.6.24	13:10	Soil	BH24-11 0'	1, 4oz jar	Ice	11	X	X					X																									
6.6.24	13:20	Soil	BH24-12 0'	1, 4oz jar	Ice	12	X	X					X																									

Date: \_\_\_\_\_ Time: \_\_\_\_\_ Relinquished by: \_\_\_\_\_

Received by: [Signature] Via: \_\_\_\_\_ Date: 6/11/24 Time: 8:45

Remarks: Harvard Divest Site - Mesa Verde 6 CTB  
GL Account 7700100

Date: 6/11/24 Time: 1900 Relinquished by: [Signature]

Received by: [Signature] Via: Courier Date: 6/12/24 Time: 7:45

Cost Center #: ~~100788400~~ 8999999999  
CC: Kent Stallings (Kstallings@vertex.ca)

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





# Chain-of-Custody Record

Client: Vertex (direct bill to Devon-Harvard Divest)

Turn-Around Time:

Standard  Rush 5 Days

Project Name:

Mailing Address: (On File)

**Mesa Verde 6 CTB**

Project #:

Phone #:

**21E-02816**

email or Fax#:

Project Manager:

QA/QC Package:

**Kent Stallings**

Standard  Level 4 (Full Validation)

[Kstallings@vertex.ca](mailto:Kstallings@vertex.ca)

Accreditation:  Az Compliance

Sampler: **J. Rewis**

NELAC  Other \_\_\_\_\_

On Ice:  Yes  No Yog.

EDD (Type) \_\_\_\_\_

# of Coolers: **1**

Cooler Temp (including CF): 0.3+0.2=0.5°

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
6.7.24	9:00	Soil	BH24-01 2'	1, 4oz jar	Ice	17
6.7.24	9:10	Soil	BH24-02 2'	1, 4oz jar	Ice	18
6.7.24	9:30	Soil	BH24-03 2'	1, 4oz jar	Ice	19
6.7.24	9:40	Soil	BH24-04 2'	1, 4oz jar	Ice	20
6.7.24	10:00	Soil	BH24-05 2'	1, 4oz jar	Ice	21
6.7.24	10:10	Soil	BH24-06 0'	1, 4oz jar	Ice	22
6.7.24	10:20	Soil	BH24-06 2'	1, 4oz jar	Ice	23
6.7.24	10:30	Soil	BH24-07 2'	1, 4oz jar	Ice	24
6.7.24	10:40	Soil	BH24-08 2'	1, 4oz jar	Ice	25
6.7.24	11:00	Soil	BH24-09 0'	1, 4oz jar	Ice	26
6.7.24	11:10	Soil	BH24-09 2'	1, 4oz jar	Ice	27
6.7.24	11:20	Soil	BH24-10 2'	1, 4oz jar	Ice	28

BTEX / 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	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
X	X					X			
X	X					X			
X	X					X			
X	X					X			
X	X					X			
X	X					X			
X	X					X			
X	X					X			
X	X					X			
X	X					X			
X	X					X			
X	X					X			
X	X					X			
X	X					X			
X	X					X			



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date: Time: Relinquished by:

Received by: Via: Date Time

Remarks:

Date: Time: Relinquished by:

Received by: Via: Carne Date Time

Harvard Divest Site - Mesa Verde 6 CTB  
GL Account 7700100  
Cost Center #: ~~4007884901~~ **8999999999**  
CC: Kent Stallings (Kstallings@vertex.ca)

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

# Chain-of-Custody Record

Client: Vertex (direct bill to Devon-Harvard Divest)

Turn-Around Time:  
 Standard  Rush 5 Day

Mailing Address: (On File)

Project Name:  
**Mesa Verde 6 CTB**

Phone #:

Project #:  
**21E-02816**

email or Fax#:

Project Manager:

QA/QC Package:  
 Standard  Level 4 (Full Validation)

**Kent Stallings**  
[Kstallings@vertex.ca](mailto:Kstallings@vertex.ca)

Accreditation:  Az Compliance  
 NELAC  Other \_\_\_\_\_

Sampler: J. Rewis  
On Ice:  Yes  No ✓

EDD (Type) \_\_\_\_\_

# of Coolers: 1

Cooler Temp (including CF): 0.3 + 0.2 = 0.5 °C

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / 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	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)																										
6.7.24	11:30	Soil	BH24-11 2'	1, 4oz jar	Ice	29	X	X					X																													
6.7.24	11:40	Soil	BH24-12 2'	1, 4oz jar	Ice	30	X	X					X																													
6.7.24	13:00	Soil	BH24-13 2'	1, 4oz jar	Ice	31	X	X					X																													
6.7.24	13:10	Soil	BH24-14 2'	1, 4oz jar	Ice	32	X	X					X																													
6.7.24	13:20	Soil	BH24-15 2'	1, 4oz jar	Ice	33	X	X					X																													
6.7.24	13:30	Soil	BH24-16 2'	1, 4oz jar	Ice	34	X	X					X																													



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date: Time: Relinquished by:

Received by: Via: Date Time  
[Signature] 01/11/24 8:45

Remarks:  
Harvard Divest Site - Mesa Verde 6 CTB  
GL Account 7700100

Date: Time: Relinquished by:  
6/12/24 7:00 [Signature]

Received by: Via: Canner Date Time  
[Signature] 6/12/24 7:45

Cost Center #: ~~4007004901~~ 8999999999  
CC: Kent Stallings (Kstallings@vertex.ca)

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



### Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-6048-1

**Login Number: 6048**

**List Source: Eurofins Albuquerque**

**List Number: 1**

**Creator: Casarrubias, Tracy**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	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

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Mr. Kent Stallings  
Vertex  
3101 Boyd Dr  
Carlsbad, New Mexico 88220

Generated 5/19/2025 12:33:12 PM

## JOB DESCRIPTION

Mesa Verde 6 Federal #002

## JOB NUMBER

885-24756-1

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  
5/19/2025 12:33:12 PM

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

Client: Vertex  
Project/Site: Mesa Verde 6 Federal #002

Laboratory Job ID: 885-24756-1

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## Definitions/Glossary

Client: Vertex  
Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-24756-1

## Qualifiers

## GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high 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)
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
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
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
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
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  
Project: Mesa Verde 6 Federal #002

Job ID: 885-24756-1

**Job ID: 885-24756-1**

**Eurofins Albuquerque**

### Job Narrative 885-24756-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 5/13/2025 7:50 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 5.0°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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-26257 and analytical batch 885-26310 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015D\_DRO: Surrogate recovery for the following samples were outside the upper control limit: BH25-17 0' (885-24756-1), BH25-17 2' (885-24756-2) and (MB 885-26257/1-A). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8015D\_DRO: The laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for preparation batch 885-26257 and analytical batch 885-26310 recovered outside the upper control limit for the following analytes: Di-n-octyl phthalate (Surr).. The following associated samples have detections: (LCS 885-26257/2-A). All samples with acceptable surrogate or high failing surrogate and are ND will be reported. All samples with failing surrogate and hits will be re-ran or re-extracted.

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.

Eurofins Albuquerque

### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-24756-1

Client Sample ID: BH25-17 0'

Lab Sample ID: 885-24756-1

Date Collected: 05/09/25 09:40

Matrix: Solid

Date Received: 05/13/25 07:50

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		05/14/25 12:39	05/16/25 00:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 150			05/14/25 12:39	05/16/25 00:08	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/14/25 12:39	05/16/25 00:08	1
Ethylbenzene	ND		0.049	mg/Kg		05/14/25 12:39	05/16/25 00:08	1
Toluene	ND		0.049	mg/Kg		05/14/25 12:39	05/16/25 00:08	1
Xylenes, Total	ND		0.098	mg/Kg		05/14/25 12:39	05/16/25 00:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			05/14/25 12:39	05/16/25 00:08	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		05/15/25 14:29	05/16/25 21:55	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/15/25 14:29	05/16/25 21:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	167	S1+	62 - 134			05/15/25 14:29	05/16/25 21:55	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65		60	mg/Kg		05/15/25 07:58	05/15/25 10:32	20

### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-24756-1

Client Sample ID: BH25-17 2'

Lab Sample ID: 885-24756-2

Date Collected: 05/09/25 09:50

Matrix: Solid

Date Received: 05/13/25 07:50

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		05/14/25 12:39	05/16/25 00:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 150			05/14/25 12:39	05/16/25 00:30	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/14/25 12:39	05/16/25 00:30	1
Ethylbenzene	ND		0.048	mg/Kg		05/14/25 12:39	05/16/25 00:30	1
Toluene	ND		0.048	mg/Kg		05/14/25 12:39	05/16/25 00:30	1
Xylenes, Total	ND		0.095	mg/Kg		05/14/25 12:39	05/16/25 00:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			05/14/25 12:39	05/16/25 00:30	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		05/15/25 14:29	05/16/25 22:06	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/15/25 14:29	05/16/25 22:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	136	S1+	62 - 134			05/15/25 14:29	05/16/25 22:06	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		60	mg/Kg		05/15/25 07:58	05/15/25 10:42	20

### QC Sample Results

Client: Vertex  
Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-24756-1

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

Lab Sample ID: MB 885-26157/1-A  
Matrix: Solid  
Analysis Batch: 26318

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 26157

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/14/25 12:39	05/15/25 20:31	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 150			05/14/25 12:39	05/15/25 20:31	1

Lab Sample ID: LCS 885-26157/2-A  
Matrix: Solid  
Analysis Batch: 26318

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 26157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	31.2		mg/Kg		125	70 - 130
Surrogate		LCS %Recovery	LCS Qualifier	Limits			
4-Bromofluorobenzene (Surr)		242		15 - 150			

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

Lab Sample ID: MB 885-26157/1-A  
Matrix: Solid  
Analysis Batch: 26319

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 26157

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/14/25 12:39	05/15/25 20:31	1
Ethylbenzene	ND		0.050	mg/Kg		05/14/25 12:39	05/15/25 20:31	1
Toluene	ND		0.050	mg/Kg		05/14/25 12:39	05/15/25 20:31	1
Xylenes, Total	ND		0.10	mg/Kg		05/14/25 12:39	05/15/25 20:31	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			05/14/25 12:39	05/15/25 20:31	1

Lab Sample ID: LCS 885-26157/3-A  
Matrix: Solid  
Analysis Batch: 26319

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 26157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.979		mg/Kg		98	70 - 130
Ethylbenzene	1.00	0.992		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	2.00	2.03		mg/Kg		101	70 - 130
o-Xylene	1.00	1.01		mg/Kg		101	70 - 130
Toluene	1.00	0.965		mg/Kg		96	70 - 130
Surrogate		LCS %Recovery	LCS Qualifier	Limits			
4-Bromofluorobenzene (Surr)		99		15 - 150			

Eurofins Albuquerque

### QC Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-24756-1

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

Lab Sample ID: MB 885-26257/1-A  
 Matrix: Solid  
 Analysis Batch: 26310

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 26257

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		05/15/25 14:29	05/16/25 16:25	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/15/25 14:29	05/16/25 16:25	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	167	S1+	62 - 134			05/15/25 14:29	05/16/25 16:25	1

Lab Sample ID: LCS 885-26257/2-A  
 Matrix: Solid  
 Analysis Batch: 26310

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 26257

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	72.9		mg/Kg		146	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	164	S1+	62 - 134				

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-26200/1-A  
 Matrix: Solid  
 Analysis Batch: 26207

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 26200

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		05/15/25 07:58	05/15/25 09:13	1
Surrogate	MB %Recovery	MB Qualifier	Limits					
Chloride	15.0		14.2	mg/Kg		95	90 - 110	

## QC Association Summary

Client: Vertex  
Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-24756-1

## GC VOA

## Prep Batch: 26157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24756-1	BH25-17 0'	Total/NA	Solid	5030C	
885-24756-2	BH25-17 2'	Total/NA	Solid	5030C	
MB 885-26157/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-26157/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-26157/3-A	Lab Control Sample	Total/NA	Solid	5030C	

## Analysis Batch: 26318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24756-1	BH25-17 0'	Total/NA	Solid	8015M/D	26157
885-24756-2	BH25-17 2'	Total/NA	Solid	8015M/D	26157
MB 885-26157/1-A	Method Blank	Total/NA	Solid	8015M/D	26157
LCS 885-26157/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	26157

## Analysis Batch: 26319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24756-1	BH25-17 0'	Total/NA	Solid	8021B	26157
885-24756-2	BH25-17 2'	Total/NA	Solid	8021B	26157
MB 885-26157/1-A	Method Blank	Total/NA	Solid	8021B	26157
LCS 885-26157/3-A	Lab Control Sample	Total/NA	Solid	8021B	26157

## GC Semi VOA

## Prep Batch: 26257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24756-1	BH25-17 0'	Total/NA	Solid	SHAKE	
885-24756-2	BH25-17 2'	Total/NA	Solid	SHAKE	
MB 885-26257/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-26257/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

## Analysis Batch: 26310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24756-1	BH25-17 0'	Total/NA	Solid	8015M/D	26257
885-24756-2	BH25-17 2'	Total/NA	Solid	8015M/D	26257
MB 885-26257/1-A	Method Blank	Total/NA	Solid	8015M/D	26257
LCS 885-26257/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	26257

## HPLC/IC

## Prep Batch: 26200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24756-1	BH25-17 0'	Total/NA	Solid	300_Prep	
885-24756-2	BH25-17 2'	Total/NA	Solid	300_Prep	
MB 885-26200/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-26200/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

## Analysis Batch: 26207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24756-1	BH25-17 0'	Total/NA	Solid	300.0	26200
885-24756-2	BH25-17 2'	Total/NA	Solid	300.0	26200
MB 885-26200/1-A	Method Blank	Total/NA	Solid	300.0	26200
LCS 885-26200/2-A	Lab Control Sample	Total/NA	Solid	300.0	26200

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### Lab Chronicle

Client: Vertex  
 Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-24756-1

**Client Sample ID: BH25-17 0'**

**Lab Sample ID: 885-24756-1**

Date Collected: 05/09/25 09:40

Matrix: Solid

Date Received: 05/13/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			26157	AT	EET ALB	05/14/25 12:39
Total/NA	Analysis	8015M/D		1	26318	AT	EET ALB	05/16/25 00:08
Total/NA	Prep	5030C			26157	AT	EET ALB	05/14/25 12:39
Total/NA	Analysis	8021B		1	26319	AT	EET ALB	05/16/25 00:08
Total/NA	Prep	SHAKE			26257	MI	EET ALB	05/15/25 14:29
Total/NA	Analysis	8015M/D		1	26310	EM	EET ALB	05/16/25 21:55
Total/NA	Prep	300_Prep			26200	DL	EET ALB	05/15/25 07:58
Total/NA	Analysis	300.0		20	26207	DL	EET ALB	05/15/25 10:32

**Client Sample ID: BH25-17 2'**

**Lab Sample ID: 885-24756-2**

Date Collected: 05/09/25 09:50

Matrix: Solid

Date Received: 05/13/25 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			26157	AT	EET ALB	05/14/25 12:39
Total/NA	Analysis	8015M/D		1	26318	AT	EET ALB	05/16/25 00:30
Total/NA	Prep	5030C			26157	AT	EET ALB	05/14/25 12:39
Total/NA	Analysis	8021B		1	26319	AT	EET ALB	05/16/25 00:30
Total/NA	Prep	SHAKE			26257	MI	EET ALB	05/15/25 14:29
Total/NA	Analysis	8015M/D		1	26310	EM	EET ALB	05/16/25 22:06
Total/NA	Prep	300_Prep			26200	DL	EET ALB	05/15/25 07:58
Total/NA	Analysis	300.0		20	26207	DL	EET ALB	05/15/25 10:42

**Laboratory References:**

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

### Accreditation/Certification Summary

Client: Vertex  
 Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-24756-1

#### Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does 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 [C10-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	NELAP	NM100001	02-26-26

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### Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-24756-1

**Login Number: 24756**

**List Number: 1**

**Creator: Casarrubias, Tracy**

**List Source: Eurofins Albuquerque**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
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

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Mr. Kent Stallings  
 Vertex  
 3101 Boyd Dr  
 Carlsbad, New Mexico 88220

Generated 5/29/2025 12:13:52 PM

## JOB DESCRIPTION

Mesa Verde 6 Federal #002

## JOB NUMBER

885-25374-1

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



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

Client: Vertex  
Project/Site: Mesa Verde 6 Federal #002

Laboratory Job ID: 885-25374-1



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## Definitions/Glossary

Client: Vertex

Job ID: 885-25374-1

Project/Site: Mesa Verde 6 Federal #002

## 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)
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
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
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
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
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  
Project: Mesa Verde 6 Federal #002

Job ID: 885-25374-1

**Job ID: 885-25374-1**

**Eurofins Albuquerque**

## Job Narrative 885-25374-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 5/22/2025 7:35 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 3.6°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: Surrogate recovery for the following sample is outside the upper control limit: (CCV 885-26921/83). Despite this high bias, associated samples with passing surrogate were found to be unaffected and have been reported.

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 Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-25374-1

**Client Sample ID: BS25-01 0'**

**Lab Sample ID: 885-25374-1**

Date Collected: 05/15/25 09:15

Matrix: Solid

Date Received: 05/22/25 07:35

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/22/25 14:44	05/23/25 17:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		15 - 150			05/22/25 14:44	05/23/25 17:10	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/22/25 14:44	05/23/25 17:10	1
Ethylbenzene	ND		0.050	mg/Kg		05/22/25 14:44	05/23/25 17:10	1
Toluene	ND		0.050	mg/Kg		05/22/25 14:44	05/23/25 17:10	1
Xylenes, Total	ND		0.10	mg/Kg		05/22/25 14:44	05/23/25 17:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 150			05/22/25 14:44	05/23/25 17:10	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.8	mg/Kg		05/23/25 08:27	05/26/25 03:31	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		05/23/25 08:27	05/26/25 03:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	101		62 - 134			05/23/25 08:27	05/26/25 03:31	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	320		60	mg/Kg		05/28/25 08:38	05/28/25 14:11	20

### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-25374-1

Client Sample ID: BS25-02 0'

Lab Sample ID: 885-25374-2

Date Collected: 05/15/25 09:20

Matrix: Solid

Date Received: 05/22/25 07:35

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/22/25 14:44	05/23/25 18:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 150			05/22/25 14:44	05/23/25 18:15	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/22/25 14:44	05/23/25 18:15	1
Ethylbenzene	ND		0.050	mg/Kg		05/22/25 14:44	05/23/25 18:15	1
Toluene	ND		0.050	mg/Kg		05/22/25 14:44	05/23/25 18:15	1
Xylenes, Total	ND		0.10	mg/Kg		05/22/25 14:44	05/23/25 18:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			05/22/25 14:44	05/23/25 18:15	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		05/23/25 08:27	05/26/25 04:08	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/23/25 08:27	05/26/25 04:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	108		62 - 134			05/23/25 08:27	05/26/25 04:08	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		60	mg/Kg		05/28/25 08:38	05/28/25 14:21	20

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### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-25374-1

Client Sample ID: BS25-03 0'

Lab Sample ID: 885-25374-3

Date Collected: 05/15/25 09:30

Matrix: Solid

Date Received: 05/22/25 07:35

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/22/25 14:44	05/23/25 19:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			05/22/25 14:44	05/23/25 19:21	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/22/25 14:44	05/23/25 19:21	1
Ethylbenzene	ND		0.050	mg/Kg		05/22/25 14:44	05/23/25 19:21	1
Toluene	ND		0.050	mg/Kg		05/22/25 14:44	05/23/25 19:21	1
Xylenes, Total	ND		0.10	mg/Kg		05/22/25 14:44	05/23/25 19:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			05/22/25 14:44	05/23/25 19:21	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		05/23/25 08:27	05/26/25 04:20	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/23/25 08:27	05/26/25 04:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			05/23/25 08:27	05/26/25 04:20	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		61	mg/Kg		05/28/25 08:38	05/28/25 14:31	20

### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-25374-1

**Client Sample ID: BS25-04 0'**

**Lab Sample ID: 885-25374-4**

Date Collected: 05/15/25 09:40

Matrix: Solid

Date Received: 05/22/25 07:35

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/22/25 14:44	05/23/25 19:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			05/22/25 14:44	05/23/25 19:42	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/22/25 14:44	05/23/25 19:42	1
Ethylbenzene	ND		0.050	mg/Kg		05/22/25 14:44	05/23/25 19:42	1
Toluene	ND		0.050	mg/Kg		05/22/25 14:44	05/23/25 19:42	1
Xylenes, Total	ND		0.10	mg/Kg		05/22/25 14:44	05/23/25 19:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			05/22/25 14:44	05/23/25 19:42	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		05/23/25 08:27	05/26/25 04:33	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/23/25 08:27	05/26/25 04:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	114		62 - 134			05/23/25 08:27	05/26/25 04:33	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	680		60	mg/Kg		05/28/25 08:38	05/28/25 14:40	20

### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-25374-1

**Client Sample ID: BS25-05 0'**

**Lab Sample ID: 885-25374-5**

Date Collected: 05/15/25 09:50

Matrix: Solid

Date Received: 05/22/25 07:35

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		05/22/25 14:44	05/23/25 20:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			05/22/25 14:44	05/23/25 20:04	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/22/25 14:44	05/23/25 20:04	1
Ethylbenzene	ND		0.048	mg/Kg		05/22/25 14:44	05/23/25 20:04	1
Toluene	ND		0.048	mg/Kg		05/22/25 14:44	05/23/25 20:04	1
Xylenes, Total	ND		0.095	mg/Kg		05/22/25 14:44	05/23/25 20:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			05/22/25 14:44	05/23/25 20:04	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9	mg/Kg		05/23/25 08:27	05/26/25 04:45	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		05/23/25 08:27	05/26/25 04:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	110		62 - 134			05/23/25 08:27	05/26/25 04:45	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76		60	mg/Kg		05/28/25 08:38	05/28/25 14:50	20

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### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-25374-1

**Client Sample ID: BS25-06 0'**

**Lab Sample ID: 885-25374-6**

Date Collected: 05/15/25 09:55

Matrix: Solid

Date Received: 05/22/25 07:35

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		05/22/25 14:44	05/23/25 20:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 150			05/22/25 14:44	05/23/25 20:26	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/22/25 14:44	05/23/25 20:26	1
Ethylbenzene	ND		0.048	mg/Kg		05/22/25 14:44	05/23/25 20:26	1
Toluene	ND		0.048	mg/Kg		05/22/25 14:44	05/23/25 20:26	1
Xylenes, Total	ND		0.096	mg/Kg		05/22/25 14:44	05/23/25 20:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			05/22/25 14:44	05/23/25 20:26	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		05/23/25 08:27	05/26/25 04:57	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/23/25 08:27	05/26/25 04:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	100		62 - 134			05/23/25 08:27	05/26/25 04:57	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60		60	mg/Kg		05/28/25 08:38	05/28/25 15:00	20

### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-25374-1

**Client Sample ID: BS25-07 0'**

**Lab Sample ID: 885-25374-7**

Date Collected: 05/15/25 10:00

Matrix: Solid

Date Received: 05/22/25 07:35

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/22/25 14:44	05/23/25 21:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			05/22/25 14:44	05/23/25 21:09	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/22/25 14:44	05/23/25 21:09	1
Ethylbenzene	ND		0.050	mg/Kg		05/22/25 14:44	05/23/25 21:09	1
Toluene	ND		0.050	mg/Kg		05/22/25 14:44	05/23/25 21:09	1
Xylenes, Total	ND		0.099	mg/Kg		05/22/25 14:44	05/23/25 21:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			05/22/25 14:44	05/23/25 21:09	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		05/23/25 08:27	05/26/25 05:09	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/23/25 08:27	05/26/25 05:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	117		62 - 134			05/23/25 08:27	05/26/25 05:09	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210		60	mg/Kg		05/28/25 08:38	05/28/25 15:10	20

### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-25374-1

Client Sample ID: BS25-08 0'

Lab Sample ID: 885-25374-8

Date Collected: 05/15/25 10:05

Matrix: Solid

Date Received: 05/22/25 07:35

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		05/22/25 14:44	05/23/25 21:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			05/22/25 14:44	05/23/25 21:31	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		05/22/25 14:44	05/23/25 21:31	1
Ethylbenzene	ND		0.047	mg/Kg		05/22/25 14:44	05/23/25 21:31	1
Toluene	ND		0.047	mg/Kg		05/22/25 14:44	05/23/25 21:31	1
Xylenes, Total	ND		0.093	mg/Kg		05/22/25 14:44	05/23/25 21:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			05/22/25 14:44	05/23/25 21:31	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		05/23/25 08:27	05/26/25 05:22	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/23/25 08:27	05/26/25 05:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	114		62 - 134			05/23/25 08:27	05/26/25 05:22	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/27/25 11:50	05/27/25 15:05	20

### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-25374-1

Client Sample ID: BS25-09 0'

Lab Sample ID: 885-25374-9

Date Collected: 05/15/25 10:15

Matrix: Solid

Date Received: 05/22/25 07:35

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		05/22/25 14:44	05/23/25 21:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			05/22/25 14:44	05/23/25 21:53	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/22/25 14:44	05/23/25 21:53	1
Ethylbenzene	ND		0.047	mg/Kg		05/22/25 14:44	05/23/25 21:53	1
Toluene	ND		0.047	mg/Kg		05/22/25 14:44	05/23/25 21:53	1
Xylenes, Total	ND		0.095	mg/Kg		05/22/25 14:44	05/23/25 21:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			05/22/25 14:44	05/23/25 21:53	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		05/23/25 08:27	05/26/25 05:46	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/23/25 08:27	05/26/25 05:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	116		62 - 134			05/23/25 08:27	05/26/25 05:46	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/27/25 11:50	05/27/25 15:35	20

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### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-25374-1

Client Sample ID: BS25-10 0'

Lab Sample ID: 885-25374-10

Date Collected: 05/15/25 10:20

Matrix: Solid

Date Received: 05/22/25 07:35

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		05/22/25 14:44	05/23/25 22:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			05/22/25 14:44	05/23/25 22:14	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/22/25 14:44	05/23/25 22:14	1
Ethylbenzene	ND		0.049	mg/Kg		05/22/25 14:44	05/23/25 22:14	1
Toluene	ND		0.049	mg/Kg		05/22/25 14:44	05/23/25 22:14	1
Xylenes, Total	ND		0.097	mg/Kg		05/22/25 14:44	05/23/25 22:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			05/22/25 14:44	05/23/25 22:14	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.7	mg/Kg		05/23/25 08:27	05/26/25 05:58	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		05/23/25 08:27	05/26/25 05:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	129		62 - 134			05/23/25 08:27	05/26/25 05:58	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/27/25 11:50	05/27/25 16:04	20

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### Client Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-25374-1

Client Sample ID: BS25-11 0'

Lab Sample ID: 885-25374-11

Date Collected: 05/15/25 10:25

Matrix: Solid

Date Received: 05/22/25 07:35

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		05/22/25 14:44	05/23/25 22:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 150			05/22/25 14:44	05/23/25 22:36	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/22/25 14:44	05/23/25 22:36	1
Ethylbenzene	ND		0.049	mg/Kg		05/22/25 14:44	05/23/25 22:36	1
Toluene	ND		0.049	mg/Kg		05/22/25 14:44	05/23/25 22:36	1
Xylenes, Total	ND		0.099	mg/Kg		05/22/25 14:44	05/23/25 22:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 150			05/22/25 14:44	05/23/25 22:36	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		05/23/25 08:27	05/26/25 06:10	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/23/25 08:27	05/26/25 06:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	116		62 - 134			05/23/25 08:27	05/26/25 06:10	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/27/25 16:50	05/27/25 18:57	20

### QC Sample Results

Client: Vertex  
Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-25374-1

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

Lab Sample ID: MB 885-26792/1-A  
Matrix: Solid  
Analysis Batch: 26941

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 26792

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/22/25 14:44	05/23/25 16:46	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 150			05/22/25 14:44	05/23/25 16:46	1

Lab Sample ID: LCS 885-26792/2-A  
Matrix: Solid  
Analysis Batch: 26941

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 26792

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	28.0		mg/Kg		112	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	218		15 - 150				

Lab Sample ID: 885-25374-1 MS  
Matrix: Solid  
Analysis Batch: 26941

Client Sample ID: BS25-01 0'  
Prep Type: Total/NA  
Prep Batch: 26792

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	ND		25.0	30.3		mg/Kg		121	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	235		15 - 150						

Lab Sample ID: 885-25374-1 MSD  
Matrix: Solid  
Analysis Batch: 26941

Client Sample ID: BS25-01 0'  
Prep Type: Total/NA  
Prep Batch: 26792

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.9	29.7		mg/Kg		119	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	232		15 - 150								

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

Lab Sample ID: MB 885-26792/1-A  
Matrix: Solid  
Analysis Batch: 26942

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 26792

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/22/25 14:44	05/23/25 16:46	1
Ethylbenzene	ND		0.050	mg/Kg		05/22/25 14:44	05/23/25 16:46	1
Toluene	ND		0.050	mg/Kg		05/22/25 14:44	05/23/25 16:46	1

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### QC Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-25374-1

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

**Lab Sample ID: MB 885-26792/1-A**  
**Matrix: Solid**  
**Analysis Batch: 26942**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 26792**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Xylenes, Total	ND		0.10	mg/Kg		05/22/25 14:44	05/23/25 16:46	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	95		15 - 150	05/22/25 14:44	05/23/25 16:46	1

**Lab Sample ID: LCS 885-26792/3-A**  
**Matrix: Solid**  
**Analysis Batch: 26942**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 26792**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	1.00	0.968		mg/Kg		97	70 - 130
Ethylbenzene	1.00	0.998		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	2.00	2.05		mg/Kg		102	70 - 130
o-Xylene	1.00	1.01		mg/Kg		101	70 - 130
Toluene	1.00	0.971		mg/Kg		97	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		15 - 150

**Lab Sample ID: 885-25374-2 MS**  
**Matrix: Solid**  
**Analysis Batch: 26942**

**Client Sample ID: BS25-02 0'**  
**Prep Type: Total/NA**  
**Prep Batch: 26792**

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Benzene	ND		0.995	0.975		mg/Kg		98	70 - 130
Ethylbenzene	ND		0.995	1.02		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	ND		1.99	2.06		mg/Kg		103	70 - 130
o-Xylene	ND		0.995	1.03		mg/Kg		104	70 - 130
Toluene	ND		0.995	0.984		mg/Kg		99	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		15 - 150

**Lab Sample ID: 885-25374-2 MSD**  
**Matrix: Solid**  
**Analysis Batch: 26942**

**Client Sample ID: BS25-02 0'**  
**Prep Type: Total/NA**  
**Prep Batch: 26792**

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	
	Result	Qualifier		Result	Qualifier					RPD	Limit
Benzene	ND		0.991	0.962		mg/Kg		97	70 - 130	1	20
Ethylbenzene	ND		0.991	1.01		mg/Kg		102	70 - 130	1	20
m-Xylene & p-Xylene	ND		1.98	2.04		mg/Kg		103	70 - 130	1	20
o-Xylene	ND		0.991	1.02		mg/Kg		103	70 - 130	2	20
Toluene	ND		0.991	0.970		mg/Kg		98	70 - 130	1	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		15 - 150

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### QC Sample Results

Client: Vertex  
Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-25374-1

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

Lab Sample ID: MB 885-26833/1-A  
Matrix: Solid  
Analysis Batch: 26921

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 26833

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		05/23/25 08:27	05/26/25 03:06	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/23/25 08:27	05/26/25 03:06	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	112		62 - 134			05/23/25 08:27	05/26/25 03:06	1

Lab Sample ID: LCS 885-26833/2-A  
Matrix: Solid  
Analysis Batch: 26921

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 26833

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	50.7		mg/Kg		101	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	112		62 - 134				

Lab Sample ID: 885-25374-1 MS  
Matrix: Solid  
Analysis Batch: 26921

Client Sample ID: BS25-01 0'  
Prep Type: Total/NA  
Prep Batch: 26833

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		45.8	32.2		mg/Kg		70	44 - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
Di-n-octyl phthalate (Surr)	116		62 - 134						

Lab Sample ID: 885-25374-1 MSD  
Matrix: Solid  
Analysis Batch: 26921

Client Sample ID: BS25-01 0'  
Prep Type: Total/NA  
Prep Batch: 26833

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Diesel Range Organics [C10-C28]	ND		45.1	27.0		mg/Kg		60	44 - 136	17	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Di-n-octyl phthalate (Surr)	98		62 - 134								

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-26957/1-A  
Matrix: Solid  
Analysis Batch: 26937

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 26957

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		05/27/25 10:14	05/27/25 13:57	1

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### QC Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-25374-1

#### Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-26957/3-A  
 Matrix: Solid  
 Analysis Batch: 26937

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 26957

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0	15.1		mg/Kg		100	90 - 110

Lab Sample ID: MB 885-26966/1-A  
 Matrix: Solid  
 Analysis Batch: 26937

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 26966

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		05/27/25 11:50	05/27/25 14:26	1

Lab Sample ID: LCS 885-26966/2-A  
 Matrix: Solid  
 Analysis Batch: 26937

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 26966

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0	14.9		mg/Kg		99	90 - 110

Lab Sample ID: 885-25374-8 MS  
 Matrix: Solid  
 Analysis Batch: 26937

Client Sample ID: BS25-08 0'  
 Prep Type: Total/NA  
 Prep Batch: 26966

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		30.2	ND		mg/Kg		NC	50 - 150

Lab Sample ID: 885-25374-8 MSD  
 Matrix: Solid  
 Analysis Batch: 26937

Client Sample ID: BS25-08 0'  
 Prep Type: Total/NA  
 Prep Batch: 26966

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		30.2	ND		mg/Kg		NC	50 - 150	NC	20

Lab Sample ID: 885-25374-9 MS  
 Matrix: Solid  
 Analysis Batch: 26937

Client Sample ID: BS25-09 0'  
 Prep Type: Total/NA  
 Prep Batch: 26966

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		29.9	ND		mg/Kg		NC	50 - 150

Lab Sample ID: 885-25374-9 MSD  
 Matrix: Solid  
 Analysis Batch: 26937

Client Sample ID: BS25-09 0'  
 Prep Type: Total/NA  
 Prep Batch: 26966

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		29.7	ND		mg/Kg		NC	50 - 150	NC	20

Lab Sample ID: MB 885-27007/1-A  
 Matrix: Solid  
 Analysis Batch: 27012

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 27007

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		05/27/25 16:50	05/27/25 18:16	1

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### QC Sample Results

Client: Vertex  
 Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-25374-1

#### Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: LCS 885-27007/3-A**  
**Matrix: Solid**  
**Analysis Batch: 27012**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 27007**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0	14.7		mg/Kg		98	90 - 110

**Lab Sample ID: LLCS 885-27007/2-A**  
**Matrix: Solid**  
**Analysis Batch: 27012**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 27007**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1.50	1.62		mg/Kg		108	50 - 150

**Lab Sample ID: MB 885-27026/1-A**  
**Matrix: Solid**  
**Analysis Batch: 27034**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 27026**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		05/28/25 08:38	05/28/25 09:44	1

**Lab Sample ID: LCS 885-27026/2-A**  
**Matrix: Solid**  
**Analysis Batch: 27034**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 27026**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0	14.8		mg/Kg		99	90 - 110

### QC Association Summary

Client: Vertex  
 Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-25374-1

#### GC VOA

##### Prep Batch: 26792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-25374-1	BS25-01 0'	Total/NA	Solid	5030C	
885-25374-2	BS25-02 0'	Total/NA	Solid	5030C	
885-25374-3	BS25-03 0'	Total/NA	Solid	5030C	
885-25374-4	BS25-04 0'	Total/NA	Solid	5030C	
885-25374-5	BS25-05 0'	Total/NA	Solid	5030C	
885-25374-6	BS25-06 0'	Total/NA	Solid	5030C	
885-25374-7	BS25-07 0'	Total/NA	Solid	5030C	
885-25374-8	BS25-08 0'	Total/NA	Solid	5030C	
885-25374-9	BS25-09 0'	Total/NA	Solid	5030C	
885-25374-10	BS25-10 0'	Total/NA	Solid	5030C	
885-25374-11	BS25-11 0'	Total/NA	Solid	5030C	
MB 885-26792/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-26792/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-26792/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-25374-1 MS	BS25-01 0'	Total/NA	Solid	5030C	
885-25374-1 MSD	BS25-01 0'	Total/NA	Solid	5030C	
885-25374-2 MS	BS25-02 0'	Total/NA	Solid	5030C	
885-25374-2 MSD	BS25-02 0'	Total/NA	Solid	5030C	

##### Analysis Batch: 26941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-25374-1	BS25-01 0'	Total/NA	Solid	8015M/D	26792
885-25374-2	BS25-02 0'	Total/NA	Solid	8015M/D	26792
885-25374-3	BS25-03 0'	Total/NA	Solid	8015M/D	26792
885-25374-4	BS25-04 0'	Total/NA	Solid	8015M/D	26792
885-25374-5	BS25-05 0'	Total/NA	Solid	8015M/D	26792
885-25374-6	BS25-06 0'	Total/NA	Solid	8015M/D	26792
885-25374-7	BS25-07 0'	Total/NA	Solid	8015M/D	26792
885-25374-8	BS25-08 0'	Total/NA	Solid	8015M/D	26792
885-25374-9	BS25-09 0'	Total/NA	Solid	8015M/D	26792
885-25374-10	BS25-10 0'	Total/NA	Solid	8015M/D	26792
885-25374-11	BS25-11 0'	Total/NA	Solid	8015M/D	26792
MB 885-26792/1-A	Method Blank	Total/NA	Solid	8015M/D	26792
LCS 885-26792/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	26792
885-25374-1 MS	BS25-01 0'	Total/NA	Solid	8015M/D	26792
885-25374-1 MSD	BS25-01 0'	Total/NA	Solid	8015M/D	26792

##### Analysis Batch: 26942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-25374-1	BS25-01 0'	Total/NA	Solid	8021B	26792
885-25374-2	BS25-02 0'	Total/NA	Solid	8021B	26792
885-25374-3	BS25-03 0'	Total/NA	Solid	8021B	26792
885-25374-4	BS25-04 0'	Total/NA	Solid	8021B	26792
885-25374-5	BS25-05 0'	Total/NA	Solid	8021B	26792
885-25374-6	BS25-06 0'	Total/NA	Solid	8021B	26792
885-25374-7	BS25-07 0'	Total/NA	Solid	8021B	26792
885-25374-8	BS25-08 0'	Total/NA	Solid	8021B	26792
885-25374-9	BS25-09 0'	Total/NA	Solid	8021B	26792
885-25374-10	BS25-10 0'	Total/NA	Solid	8021B	26792
885-25374-11	BS25-11 0'	Total/NA	Solid	8021B	26792
MB 885-26792/1-A	Method Blank	Total/NA	Solid	8021B	26792

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## QC Association Summary

Client: Vertex  
Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-25374-1

## GC VOA (Continued)

## Analysis Batch: 26942 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-26792/3-A	Lab Control Sample	Total/NA	Solid	8021B	26792
885-25374-2 MS	BS25-02 0'	Total/NA	Solid	8021B	26792
885-25374-2 MSD	BS25-02 0'	Total/NA	Solid	8021B	26792

## GC Semi VOA

## Prep Batch: 26833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-25374-1	BS25-01 0'	Total/NA	Solid	SHAKE	
885-25374-2	BS25-02 0'	Total/NA	Solid	SHAKE	
885-25374-3	BS25-03 0'	Total/NA	Solid	SHAKE	
885-25374-4	BS25-04 0'	Total/NA	Solid	SHAKE	
885-25374-5	BS25-05 0'	Total/NA	Solid	SHAKE	
885-25374-6	BS25-06 0'	Total/NA	Solid	SHAKE	
885-25374-7	BS25-07 0'	Total/NA	Solid	SHAKE	
885-25374-8	BS25-08 0'	Total/NA	Solid	SHAKE	
885-25374-9	BS25-09 0'	Total/NA	Solid	SHAKE	
885-25374-10	BS25-10 0'	Total/NA	Solid	SHAKE	
885-25374-11	BS25-11 0'	Total/NA	Solid	SHAKE	
MB 885-26833/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-26833/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-25374-1 MS	BS25-01 0'	Total/NA	Solid	SHAKE	
885-25374-1 MSD	BS25-01 0'	Total/NA	Solid	SHAKE	

## Analysis Batch: 26921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-25374-1	BS25-01 0'	Total/NA	Solid	8015M/D	26833
885-25374-2	BS25-02 0'	Total/NA	Solid	8015M/D	26833
885-25374-3	BS25-03 0'	Total/NA	Solid	8015M/D	26833
885-25374-4	BS25-04 0'	Total/NA	Solid	8015M/D	26833
885-25374-5	BS25-05 0'	Total/NA	Solid	8015M/D	26833
885-25374-6	BS25-06 0'	Total/NA	Solid	8015M/D	26833
885-25374-7	BS25-07 0'	Total/NA	Solid	8015M/D	26833
885-25374-8	BS25-08 0'	Total/NA	Solid	8015M/D	26833
885-25374-9	BS25-09 0'	Total/NA	Solid	8015M/D	26833
885-25374-10	BS25-10 0'	Total/NA	Solid	8015M/D	26833
885-25374-11	BS25-11 0'	Total/NA	Solid	8015M/D	26833
MB 885-26833/1-A	Method Blank	Total/NA	Solid	8015M/D	26833
LCS 885-26833/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	26833
885-25374-1 MS	BS25-01 0'	Total/NA	Solid	8015M/D	26833
885-25374-1 MSD	BS25-01 0'	Total/NA	Solid	8015M/D	26833

## HPLC/IC

## Analysis Batch: 26937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-25374-8	BS25-08 0'	Total/NA	Solid	300.0	26966
885-25374-9	BS25-09 0'	Total/NA	Solid	300.0	26966
885-25374-10	BS25-10 0'	Total/NA	Solid	300.0	26966
MB 885-26957/1-A	Method Blank	Total/NA	Solid	300.0	26957
MB 885-26966/1-A	Method Blank	Total/NA	Solid	300.0	26966
LCS 885-26957/3-A	Lab Control Sample	Total/NA	Solid	300.0	26957

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## QC Association Summary

Client: Vertex  
Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-25374-1

## HPLC/IC (Continued)

## Analysis Batch: 26937 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-26966/2-A	Lab Control Sample	Total/NA	Solid	300.0	26966
885-25374-8 MS	BS25-08 0'	Total/NA	Solid	300.0	26966
885-25374-8 MSD	BS25-08 0'	Total/NA	Solid	300.0	26966
885-25374-9 MS	BS25-09 0'	Total/NA	Solid	300.0	26966
885-25374-9 MSD	BS25-09 0'	Total/NA	Solid	300.0	26966

## Prep Batch: 26957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-26957/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-26957/3-A	Lab Control Sample	Total/NA	Solid	300_Prep	

## Prep Batch: 26966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-25374-8	BS25-08 0'	Total/NA	Solid	300_Prep	
885-25374-9	BS25-09 0'	Total/NA	Solid	300_Prep	
885-25374-10	BS25-10 0'	Total/NA	Solid	300_Prep	
MB 885-26966/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-26966/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-25374-8 MS	BS25-08 0'	Total/NA	Solid	300_Prep	
885-25374-8 MSD	BS25-08 0'	Total/NA	Solid	300_Prep	
885-25374-9 MS	BS25-09 0'	Total/NA	Solid	300_Prep	
885-25374-9 MSD	BS25-09 0'	Total/NA	Solid	300_Prep	

## Prep Batch: 27007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-25374-11	BS25-11 0'	Total/NA	Solid	300_Prep	
MB 885-27007/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-27007/3-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LLCS 885-27007/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

## Analysis Batch: 27012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-25374-11	BS25-11 0'	Total/NA	Solid	300.0	27007
MB 885-27007/1-A	Method Blank	Total/NA	Solid	300.0	27007
LCS 885-27007/3-A	Lab Control Sample	Total/NA	Solid	300.0	27007
LLCS 885-27007/2-A	Lab Control Sample	Total/NA	Solid	300.0	27007

## Prep Batch: 27026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-25374-1	BS25-01 0'	Total/NA	Solid	300_Prep	
885-25374-2	BS25-02 0'	Total/NA	Solid	300_Prep	
885-25374-3	BS25-03 0'	Total/NA	Solid	300_Prep	
885-25374-4	BS25-04 0'	Total/NA	Solid	300_Prep	
885-25374-5	BS25-05 0'	Total/NA	Solid	300_Prep	
885-25374-6	BS25-06 0'	Total/NA	Solid	300_Prep	
885-25374-7	BS25-07 0'	Total/NA	Solid	300_Prep	
MB 885-27026/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-27026/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

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### QC Association Summary

Client: Vertex  
Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-25374-1

#### HPLC/IC

#### Analysis Batch: 27034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-25374-1	BS25-01 0'	Total/NA	Solid	300.0	27026
885-25374-2	BS25-02 0'	Total/NA	Solid	300.0	27026
885-25374-3	BS25-03 0'	Total/NA	Solid	300.0	27026
885-25374-4	BS25-04 0'	Total/NA	Solid	300.0	27026
885-25374-5	BS25-05 0'	Total/NA	Solid	300.0	27026
885-25374-6	BS25-06 0'	Total/NA	Solid	300.0	27026
885-25374-7	BS25-07 0'	Total/NA	Solid	300.0	27026
MB 885-27026/1-A	Method Blank	Total/NA	Solid	300.0	27026
LCS 885-27026/2-A	Lab Control Sample	Total/NA	Solid	300.0	27026



### Lab Chronicle

Client: Vertex  
 Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-25374-1

**Client Sample ID: BS25-01 0'**

**Lab Sample ID: 885-25374-1**

Date Collected: 05/15/25 09:15

Matrix: Solid

Date Received: 05/22/25 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			26792	AT	EET ALB	05/22/25 14:44
Total/NA	Analysis	8015M/D		1	26941	AT	EET ALB	05/23/25 17:10
Total/NA	Prep	5030C			26792	AT	EET ALB	05/22/25 14:44
Total/NA	Analysis	8021B		1	26942	AT	EET ALB	05/23/25 17:10
Total/NA	Prep	SHAKE			26833	JM	EET ALB	05/23/25 08:27
Total/NA	Analysis	8015M/D		1	26921	MI	EET ALB	05/26/25 03:31
Total/NA	Prep	300_Prep			27026	DL	EET ALB	05/28/25 08:38
Total/NA	Analysis	300.0		20	27034	DL	EET ALB	05/28/25 14:11

**Client Sample ID: BS25-02 0'**

**Lab Sample ID: 885-25374-2**

Date Collected: 05/15/25 09:20

Matrix: Solid

Date Received: 05/22/25 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			26792	AT	EET ALB	05/22/25 14:44
Total/NA	Analysis	8015M/D		1	26941	AT	EET ALB	05/23/25 18:15
Total/NA	Prep	5030C			26792	AT	EET ALB	05/22/25 14:44
Total/NA	Analysis	8021B		1	26942	AT	EET ALB	05/23/25 18:15
Total/NA	Prep	SHAKE			26833	JM	EET ALB	05/23/25 08:27
Total/NA	Analysis	8015M/D		1	26921	MI	EET ALB	05/26/25 04:08
Total/NA	Prep	300_Prep			27026	DL	EET ALB	05/28/25 08:38
Total/NA	Analysis	300.0		20	27034	DL	EET ALB	05/28/25 14:21

**Client Sample ID: BS25-03 0'**

**Lab Sample ID: 885-25374-3**

Date Collected: 05/15/25 09:30

Matrix: Solid

Date Received: 05/22/25 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			26792	AT	EET ALB	05/22/25 14:44
Total/NA	Analysis	8015M/D		1	26941	AT	EET ALB	05/23/25 19:21
Total/NA	Prep	5030C			26792	AT	EET ALB	05/22/25 14:44
Total/NA	Analysis	8021B		1	26942	AT	EET ALB	05/23/25 19:21
Total/NA	Prep	SHAKE			26833	JM	EET ALB	05/23/25 08:27
Total/NA	Analysis	8015M/D		1	26921	MI	EET ALB	05/26/25 04:20
Total/NA	Prep	300_Prep			27026	DL	EET ALB	05/28/25 08:38
Total/NA	Analysis	300.0		20	27034	DL	EET ALB	05/28/25 14:31

**Client Sample ID: BS25-04 0'**

**Lab Sample ID: 885-25374-4**

Date Collected: 05/15/25 09:40

Matrix: Solid

Date Received: 05/22/25 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			26792	AT	EET ALB	05/22/25 14:44
Total/NA	Analysis	8015M/D		1	26941	AT	EET ALB	05/23/25 19:42

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### Lab Chronicle

Client: Vertex  
 Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-25374-1

**Client Sample ID: BS25-04 0'**

**Lab Sample ID: 885-25374-4**

Date Collected: 05/15/25 09:40

Matrix: Solid

Date Received: 05/22/25 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			26792	AT	EET ALB	05/22/25 14:44
Total/NA	Analysis	8021B		1	26942	AT	EET ALB	05/23/25 19:42
Total/NA	Prep	SHAKE			26833	JM	EET ALB	05/23/25 08:27
Total/NA	Analysis	8015M/D		1	26921	MI	EET ALB	05/26/25 04:33
Total/NA	Prep	300_Prep			27026	DL	EET ALB	05/28/25 08:38
Total/NA	Analysis	300.0		20	27034	DL	EET ALB	05/28/25 14:40

**Client Sample ID: BS25-05 0'**

**Lab Sample ID: 885-25374-5**

Date Collected: 05/15/25 09:50

Matrix: Solid

Date Received: 05/22/25 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			26792	AT	EET ALB	05/22/25 14:44
Total/NA	Analysis	8015M/D		1	26941	AT	EET ALB	05/23/25 20:04
Total/NA	Prep	5030C			26792	AT	EET ALB	05/22/25 14:44
Total/NA	Analysis	8021B		1	26942	AT	EET ALB	05/23/25 20:04
Total/NA	Prep	SHAKE			26833	JM	EET ALB	05/23/25 08:27
Total/NA	Analysis	8015M/D		1	26921	MI	EET ALB	05/26/25 04:45
Total/NA	Prep	300_Prep			27026	DL	EET ALB	05/28/25 08:38
Total/NA	Analysis	300.0		20	27034	DL	EET ALB	05/28/25 14:50

**Client Sample ID: BS25-06 0'**

**Lab Sample ID: 885-25374-6**

Date Collected: 05/15/25 09:55

Matrix: Solid

Date Received: 05/22/25 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			26792	AT	EET ALB	05/22/25 14:44
Total/NA	Analysis	8015M/D		1	26941	AT	EET ALB	05/23/25 20:26
Total/NA	Prep	5030C			26792	AT	EET ALB	05/22/25 14:44
Total/NA	Analysis	8021B		1	26942	AT	EET ALB	05/23/25 20:26
Total/NA	Prep	SHAKE			26833	JM	EET ALB	05/23/25 08:27
Total/NA	Analysis	8015M/D		1	26921	MI	EET ALB	05/26/25 04:57
Total/NA	Prep	300_Prep			27026	DL	EET ALB	05/28/25 08:38
Total/NA	Analysis	300.0		20	27034	DL	EET ALB	05/28/25 15:00

**Client Sample ID: BS25-07 0'**

**Lab Sample ID: 885-25374-7**

Date Collected: 05/15/25 10:00

Matrix: Solid

Date Received: 05/22/25 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			26792	AT	EET ALB	05/22/25 14:44
Total/NA	Analysis	8015M/D		1	26941	AT	EET ALB	05/23/25 21:09
Total/NA	Prep	5030C			26792	AT	EET ALB	05/22/25 14:44
Total/NA	Analysis	8021B		1	26942	AT	EET ALB	05/23/25 21:09

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### Lab Chronicle

Client: Vertex  
 Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-25374-1

**Client Sample ID: BS25-07 0'**

**Lab Sample ID: 885-25374-7**

Date Collected: 05/15/25 10:00

Matrix: Solid

Date Received: 05/22/25 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			26833	JM	EET ALB	05/23/25 08:27
Total/NA	Analysis	8015M/D		1	26921	MI	EET ALB	05/26/25 05:09
Total/NA	Prep	300_Prep			27026	DL	EET ALB	05/28/25 08:38
Total/NA	Analysis	300.0		20	27034	DL	EET ALB	05/28/25 15:10

**Client Sample ID: BS25-08 0'**

**Lab Sample ID: 885-25374-8**

Date Collected: 05/15/25 10:05

Matrix: Solid

Date Received: 05/22/25 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			26792	AT	EET ALB	05/22/25 14:44
Total/NA	Analysis	8015M/D		1	26941	AT	EET ALB	05/23/25 21:31
Total/NA	Prep	5030C			26792	AT	EET ALB	05/22/25 14:44
Total/NA	Analysis	8021B		1	26942	AT	EET ALB	05/23/25 21:31
Total/NA	Prep	SHAKE			26833	JM	EET ALB	05/23/25 08:27
Total/NA	Analysis	8015M/D		1	26921	MI	EET ALB	05/26/25 05:22
Total/NA	Prep	300_Prep			26966	DL	EET ALB	05/27/25 11:50
Total/NA	Analysis	300.0		20	26937	DL	EET ALB	05/27/25 15:05

**Client Sample ID: BS25-09 0'**

**Lab Sample ID: 885-25374-9**

Date Collected: 05/15/25 10:15

Matrix: Solid

Date Received: 05/22/25 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			26792	AT	EET ALB	05/22/25 14:44
Total/NA	Analysis	8015M/D		1	26941	AT	EET ALB	05/23/25 21:53
Total/NA	Prep	5030C			26792	AT	EET ALB	05/22/25 14:44
Total/NA	Analysis	8021B		1	26942	AT	EET ALB	05/23/25 21:53
Total/NA	Prep	SHAKE			26833	JM	EET ALB	05/23/25 08:27
Total/NA	Analysis	8015M/D		1	26921	MI	EET ALB	05/26/25 05:46
Total/NA	Prep	300_Prep			26966	DL	EET ALB	05/27/25 11:50
Total/NA	Analysis	300.0		20	26937	DL	EET ALB	05/27/25 15:35

**Client Sample ID: BS25-10 0'**

**Lab Sample ID: 885-25374-10**

Date Collected: 05/15/25 10:20

Matrix: Solid

Date Received: 05/22/25 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			26792	AT	EET ALB	05/22/25 14:44
Total/NA	Analysis	8015M/D		1	26941	AT	EET ALB	05/23/25 22:14
Total/NA	Prep	5030C			26792	AT	EET ALB	05/22/25 14:44
Total/NA	Analysis	8021B		1	26942	AT	EET ALB	05/23/25 22:14
Total/NA	Prep	SHAKE			26833	JM	EET ALB	05/23/25 08:27
Total/NA	Analysis	8015M/D		1	26921	MI	EET ALB	05/26/25 05:58

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### Lab Chronicle

Client: Vertex  
 Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-25374-1

**Client Sample ID: BS25-10 0'**

**Lab Sample ID: 885-25374-10**

Date Collected: 05/15/25 10:20

Matrix: Solid

Date Received: 05/22/25 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			26966	DL	EET ALB	05/27/25 11:50
Total/NA	Analysis	300.0		20	26937	DL	EET ALB	05/27/25 16:04

**Client Sample ID: BS25-11 0'**

**Lab Sample ID: 885-25374-11**

Date Collected: 05/15/25 10:25

Matrix: Solid

Date Received: 05/22/25 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			26792	AT	EET ALB	05/22/25 14:44
Total/NA	Analysis	8015M/D		1	26941	AT	EET ALB	05/23/25 22:36
Total/NA	Prep	5030C			26792	AT	EET ALB	05/22/25 14:44
Total/NA	Analysis	8021B		1	26942	AT	EET ALB	05/23/25 22:36
Total/NA	Prep	SHAKE			26833	JM	EET ALB	05/23/25 08:27
Total/NA	Analysis	8015M/D		1	26921	MI	EET ALB	05/26/25 06:10
Total/NA	Prep	300_Prep			27007	DL	EET ALB	05/27/25 16:50
Total/NA	Analysis	300.0		20	27012	DL	EET ALB	05/27/25 18:57

**Laboratory References:**

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

### Accreditation/Certification Summary

Client: Vertex  
 Project/Site: Mesa Verde 6 Federal #002

Job ID: 885-25374-1

#### Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does 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 [C10-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	NELAP	NM100001	02-26-26





### Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-25374-1

**Login Number: 25374**

**List Source: Eurofins Albuquerque**

**List Number: 1**

**Creator: Proctor, Nancy**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	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

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Mr. Kent Stallings  
Vertex  
3101 Boyd Dr  
Carlsbad, New Mexico 88220

Generated 6/27/2025 12:35:01 PM

## JOB DESCRIPTION

Mesa Verde Federal #002

## JOB NUMBER

885-27457-1

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



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

Client: Vertex  
Project/Site: Mesa Verde Federal #002

Laboratory Job ID: 885-27457-1



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## Definitions/Glossary

Client: Vertex  
Project/Site: Mesa Verde Federal #002

Job ID: 885-27457-1

## 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)
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
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
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
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
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  
Project: Mesa Verde Federal #002

Job ID: 885-27457-1

**Job ID: 885-27457-1**

**Eurofins Albuquerque**

## Job Narrative 885-27457-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The sample was received on 6/25/2025 7:25 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°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 Sample Results

Client: Vertex  
 Project/Site: Mesa Verde Federal #002

Job ID: 885-27457-1

Client Sample ID: BS25-04 0'

Lab Sample ID: 885-27457-1

Date Collected: 06/23/25 14:05

Matrix: Solid

Date Received: 06/25/25 07:25

**Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		06/25/25 11:50	06/26/25 16:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			06/25/25 11:50	06/26/25 16:55	1

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		06/25/25 11:50	06/26/25 16:55	1
Ethylbenzene	ND		0.047	mg/Kg		06/25/25 11:50	06/26/25 16:55	1
Toluene	ND		0.047	mg/Kg		06/25/25 11:50	06/26/25 16:55	1
Xylenes, Total	ND		0.094	mg/Kg		06/25/25 11:50	06/26/25 16:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/25/25 11:50	06/26/25 16:55	1

**Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		06/25/25 14:55	06/25/25 23:24	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/25/25 14:55	06/25/25 23:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	98		62 - 134			06/25/25 14:55	06/25/25 23:24	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	320		60	mg/Kg		06/26/25 09:13	06/26/25 14:00	20

### QC Sample Results

Client: Vertex  
 Project/Site: Mesa Verde Federal #002

Job ID: 885-27457-1

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

Lab Sample ID: MB 885-28980/1-A  
 Matrix: Solid  
 Analysis Batch: 29066

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 28980

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		06/25/25 11:50	06/26/25 11:50	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			06/25/25 11:50	06/26/25 11:50	1

Lab Sample ID: LCS 885-28980/2-A  
 Matrix: Solid  
 Analysis Batch: 29066

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 28980

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	32.5		mg/Kg		130	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	220		15 - 150				

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

Lab Sample ID: MB 885-28980/1-A  
 Matrix: Solid  
 Analysis Batch: 29067

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 28980

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/25/25 11:50	06/26/25 11:50	1
Ethylbenzene	ND		0.050	mg/Kg		06/25/25 11:50	06/26/25 11:50	1
Toluene	ND		0.050	mg/Kg		06/25/25 11:50	06/26/25 11:50	1
Xylenes, Total	ND		0.10	mg/Kg		06/25/25 11:50	06/26/25 11:50	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/25/25 11:50	06/26/25 11:50	1

Lab Sample ID: LCS 885-28980/3-A  
 Matrix: Solid  
 Analysis Batch: 29067

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 28980

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.920		mg/Kg		92	70 - 130
Ethylbenzene	1.00	0.948		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	2.00	1.91		mg/Kg		96	70 - 130
o-Xylene	1.00	0.954		mg/Kg		95	70 - 130
Toluene	1.00	0.918		mg/Kg		92	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	92		15 - 150				

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### QC Sample Results

Client: Vertex  
Project/Site: Mesa Verde Federal #002

Job ID: 885-27457-1

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

Lab Sample ID: MB 885-29010/1-A  
Matrix: Solid  
Analysis Batch: 28954

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 29010

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		06/25/25 14:55	06/25/25 20:55	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		06/25/25 14:55	06/25/25 20:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	91		62 - 134	06/25/25 14:55	06/25/25 20:55	1

Lab Sample ID: LCS 885-29010/2-A  
Matrix: Solid  
Analysis Batch: 28954

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 29010

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	31.7		mg/Kg		63	51 - 148

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	84		62 - 134

Lab Sample ID: 885-27457-1 MS  
Matrix: Solid  
Analysis Batch: 28954

Client Sample ID: BS25-04 0'  
Prep Type: Total/NA  
Prep Batch: 29010

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		47.5	47.5		mg/Kg		100	44 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
Di-n-octyl phthalate (Surr)	98		62 - 134

Lab Sample ID: 885-27457-1 MSD  
Matrix: Solid  
Analysis Batch: 28954

Client Sample ID: BS25-04 0'  
Prep Type: Total/NA  
Prep Batch: 29010

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Diesel Range Organics [C10-C28]	ND		47.3	42.1		mg/Kg		89	44 - 136	12	32

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Di-n-octyl phthalate (Surr)	91		62 - 134

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-29059/1-A  
Matrix: Solid  
Analysis Batch: 29071

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 29059

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		06/26/25 09:13	06/26/25 10:35	1

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### QC Sample Results

Client: Vertex  
Project/Site: Mesa Verde Federal #002

Job ID: 885-27457-1

#### Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-29059/2-A  
Matrix: Solid  
Analysis Batch: 29071

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 29059

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0	14.4		mg/Kg		96	90 - 110

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## QC Association Summary

Client: Vertex  
Project/Site: Mesa Verde Federal #002

Job ID: 885-27457-1

## GC VOA

## Prep Batch: 28980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27457-1	BS25-04 0'	Total/NA	Solid	5030C	
MB 885-28980/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-28980/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-28980/3-A	Lab Control Sample	Total/NA	Solid	5030C	

## Analysis Batch: 29066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27457-1	BS25-04 0'	Total/NA	Solid	8015M/D	28980
MB 885-28980/1-A	Method Blank	Total/NA	Solid	8015M/D	28980
LCS 885-28980/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	28980

## Analysis Batch: 29067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27457-1	BS25-04 0'	Total/NA	Solid	8021B	28980
MB 885-28980/1-A	Method Blank	Total/NA	Solid	8021B	28980
LCS 885-28980/3-A	Lab Control Sample	Total/NA	Solid	8021B	28980

## GC Semi VOA

## Analysis Batch: 28954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27457-1	BS25-04 0'	Total/NA	Solid	8015M/D	29010
MB 885-29010/1-A	Method Blank	Total/NA	Solid	8015M/D	29010
LCS 885-29010/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	29010
885-27457-1 MS	BS25-04 0'	Total/NA	Solid	8015M/D	29010
885-27457-1 MSD	BS25-04 0'	Total/NA	Solid	8015M/D	29010

## Prep Batch: 29010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27457-1	BS25-04 0'	Total/NA	Solid	SHAKE	
MB 885-29010/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-29010/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-27457-1 MS	BS25-04 0'	Total/NA	Solid	SHAKE	
885-27457-1 MSD	BS25-04 0'	Total/NA	Solid	SHAKE	

## HPLC/IC

## Prep Batch: 29059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27457-1	BS25-04 0'	Total/NA	Solid	300_Prep	
MB 885-29059/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-29059/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

## Analysis Batch: 29071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27457-1	BS25-04 0'	Total/NA	Solid	300.0	29059
MB 885-29059/1-A	Method Blank	Total/NA	Solid	300.0	29059
LCS 885-29059/2-A	Lab Control Sample	Total/NA	Solid	300.0	29059

Eurofins Albuquerque

### Lab Chronicle

Client: Vertex  
 Project/Site: Mesa Verde Federal #002

Job ID: 885-27457-1

**Client Sample ID: BS25-04 0'**

**Lab Sample ID: 885-27457-1**

**Date Collected: 06/23/25 14:05**

**Matrix: Solid**

**Date Received: 06/25/25 07:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8015M/D		1	29066	AT	EET ALB	06/26/25 16:55
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8021B		1	29067	AT	EET ALB	06/26/25 16:55
Total/NA	Prep	SHAKE			29010	EM	EET ALB	06/25/25 14:55
Total/NA	Analysis	8015M/D		1	28954	EM	EET ALB	06/25/25 23:24
Total/NA	Prep	300_Prep			29059	RC	EET ALB	06/26/25 09:13
Total/NA	Analysis	300.0		20	29071	RC	EET ALB	06/26/25 14:00

**Laboratory References:**

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

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### Accreditation/Certification Summary

Client: Vertex  
 Project/Site: Mesa Verde Federal #002

Job ID: 885-27457-1

#### Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does 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 [C10-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	NELAP	NM100001	02-26-26

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### Chain-of-Custody Record

Turn-Around Time: Standard  Rush 5 Day

Project Name: Mesa Verde 6 Federal #002

Project #: 25A-00764

Client: Vertex  
(direct bill to Devon)

Mailing Address:

Phone #: 25A-00764

email or Fax#:

QA/QC Package:  
 Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  Other  
 NELAC  Other  
 EDD (Type)

Project Manager: Kent Stallings  
[kstallings@vertex.ca](mailto:kstallings@vertex.ca)

Sampler: S. Mc Carty

On Ice:  Yes  No


# of Coolers: 1

Cooler Temp (including CF): 2.6 to 2.8

Container Type and #  
1, 4oz jar ICE

Preservative Type

HEAL No.



**HALL ENVIRONMENTAL ANALYSIS LABOR**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NIM 87110  
 Tel. 505-345-3975 Fax 505-345-4107  
 885-27457 COC



#### Analysis Request

<input checked="" type="checkbox"/> BTEX / MTBE / TMB's (8021)	<input checked="" type="checkbox"/>	TPH:8015D(GRO / DRO / MRO)	
8081 Pesticides/8082 PCB's		EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS		RCRA 8 Metals	
Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	<input checked="" type="checkbox"/>	8260 (VOA)	
8270 (Semi-VOA)		Total Coliform (Present/Absent)	

Received by: Steph McCarty Date: 6/24/25 Time: 830

Relinquished by: Steph McCarty Date: 6/24/25 Time: 830

Received by: [Signature] Date: 6/27/25 Time: 7:125

Relinquished by: [Signature] Date: 6/27/25 Time: 7:125

Remarks:  
 Direct bill to Devon, Jim Raley  
 cc. kstallings@vertexresource.com, scarttar@vertexresource.com  
 permian@vertexresource.com\*\* smccarty@vertexresource.com for Final Report

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



### Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-27457-1

**Login Number: 27457**

**List Number: 1**

**Creator: Casarrubias, Tracy**

**List Source: Eurofins Albuquerque**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
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	



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

QUESTIONS

Action 538846

**QUESTIONS**

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 538846
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2105050332
Incident Name	NAPP2105050332 MESA VERDE 6 FEDERAL #2 @ 30-025-32202
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-32202] MESA VERDE 6 FEDERAL #002

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	MESA VERDE 6 FEDERAL #2
Date Release Discovered	12/23/2020
Surface Owner	Federal

<b>Incident Details</b>	
<i>Please answer all the questions in this group.</i>	
Incident Type	Produced Water 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

<b>Nature and Volume of Release</b>	
<i>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.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Human Error   Tank (Any)   Produced Water   Released: 367 BBL   Recovered: 5 BBL   Lost: 362 BBL.
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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QUESTIONS, Page 2

Action 538846

**QUESTIONS (continued)**

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 538846
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.</b>

*With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.*

**Initial Response**

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.*

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

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.

I hereby agree and sign off to the above statement	Name: Roni Kidd Title: Business Manager Email: rkidd@buckhornproduction.com Date: 12/30/2025
--	---

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QUESTIONS, Page 3

Action 538846

**QUESTIONS (continued)**

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 538846
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Site Characterization**  
*Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
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 1 and 5 (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
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
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 Cl B)	15000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	22500
GRO+DRO (EPA SW-846 Method 8015M)	16800
BTEX (EPA SW-846 Method 8021B or 8260B)	263.5
Benzene (EPA SW-846 Method 8021B or 8260B)	8.5

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

On what estimated date will the remediation commence	01/05/2021
On what date will (or did) the final sampling or liner inspection occur	06/23/2025
On what date will (or was) the remediation complete(d)	05/07/2021
What is the estimated surface area (in square feet) that will be reclaimed	15562
What is the estimated volume (in cubic yards) that will be reclaimed	1500
What is the estimated surface area (in square feet) that will be remediated	15562
What is the estimated volume (in cubic yards) that will be remediated	1500

*These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.*

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

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QUESTIONS, Page 4

Action 538846

**QUESTIONS (continued)**

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 538846
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Roni Kidd Title: Business Manager Email: rkidd@buckhornproduction.com Date: 12/30/2025
--	---

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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QUESTIONS, Page 5

Action 538846

**QUESTIONS (continued)**

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 538846
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

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QUESTIONS, Page 6

Action 538846

**QUESTIONS (continued)**

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 538846
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>477140</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>06/23/2025</b>
What was the (estimated) number of samples that were to be gathered	<b>1</b>
What was the sampling surface area in square feet	<b>200</b>

<b>Remediation Closure Request</b>	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	15562
What was the total volume (cubic yards) remediated	1500
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	15562
What was the total volume (in cubic yards) reclaimed	1500
Summarize any additional remediation activities not included by answers (above)	As detailed in attached report.

*The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Roni Kidd Title: Business Manager Email: rkidd@buckhornproduction.com Date: 12/30/2025
--	---

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QUESTIONS, Page 7

Action 538846

**QUESTIONS (continued)**

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 538846
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

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General Information  
Phone: (505) 629-6116

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

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

CONDITIONS

Action 538846

**CONDITIONS**

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 538846
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	2/23/2026