



Incident Number: nAPP2327932405

Remediation Closure

Gaucha Unit #006

Unit P, Section 17, Township 22 South, Range 34 East

Facility ID: fDHR1913430264

API: 30-025-34789

County: Lea

Vertex File Number: 23E-05499

Prepared for:

Devon Energy Production Company, LP

Prepared by:

Vertex Resource Services Inc.

Date:

November 2024

Devon Energy Production Company, LP
Gaucho Unit #006

Release Assessment and Closure
November 2024

Release Assessment and Closure
Gaucho Unit #006
Facility ID: fDHR1913430264
API: 30-025-34789
Unit P, Section 17, Township 22 South, Range 34 East
County: Lea

Prepared for:
Devon Energy Production Company, LP
6488 Seven Rivers Highway
Artesia, New Mexico 88210

New Mexico Oil Conservation Division
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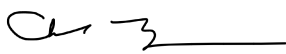
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Riley Plogger
ENVIRONMENTAL TECHNICIAN, REPORTING

11/6/2024

Date



Chad Hensley, B. Sc., GCNR
SENIOR PROJECT MANAGER, REPORT REVIEW

11/6/2024

Date

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1.0 Introduction

Devon Energy Production Company, LP (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct a Remediation Closure for a produced water release that occurred on October 5, 2023, at Gaucho Unit #006 (hereafter referred to as the "site"). Devon submitted an initial C-141 Release Notification to New Mexico Oil Conservation Division (NMOCD) District 1 on October 6, 2023. Incident ID number nAPP2327932405 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 reclamation 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 October 5, 2023, when a flowline was found leaking on the discharge side of the water transfer pump, releasing produced water onto the pad, lease road, and adjacent pasture. The incident was reported on October 6, 2023, and involved the release of 95 barrels (bbl) of produced water. During the initial clean-up, 90 bbl of produced water were recovered.

3.0 Site Characteristics

The site is located approximately 18 miles west of Eunice, New Mexico at, 32.386317° N, -103.485470° W (Google Inc., 2024). The legal location for the site is Unit P, Section 17, Township 22 South and Range 34 East in Lea County, New Mexico. The release area is located on federal property. An aerial photograph and characterization sampling 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. The following sections specifically describe the release area at the site or in proximity to the constructed pad (Figure 1).

The *Geological Map of New Mexico* (New Mexico Bureau of Geology and Mineral Resources, 2024) indicates the surface geology at the site primarily comprises Qep – Interlayered eolian sands and piedmont-slope deposits (Holocene to middle Pleistocene). The soil at the site is characterized as Kermit soils and Dune land (United States Department of Agriculture, Natural Resources Conservation Service, 2024). Additional soil characteristics include excessively drained soil with very low runoff and low available moisture levels in the soil profile. The karst geology potential for the site is low (United States Department of the Interior, Bureau of Land Management, 2018).

The surrounding landscape is associated with plains, sand dunes and hillslopes, at elevations of 2,842 to 4,500 feet above sea level. The climate is semi-arid with average annual precipitation ranging between 8 and 13 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be grasses with shrubs and forbs. Sand bluestem (*Andropogon hallii*) and giant dropseed (*Sporobolus giganteus*) with sand shinnery

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oak (*Quercus havardii*) and soapweed yucca (*Yucca glauca*) that dominate the historical plant community in this area (United States Department of Agriculture, Natural Resources Conservation Service, 2024). Limited to no vegetation is allowed to grow on the compacted production pad, right-of-way and access road.

4.0 Closure Criteria Determination

The nearest well within 0.5 mile to the site, C-01963 POD-1, was drilled on March 25, 2024, as a local depth to groundwater reference (New Mexico Office of the State Engineer, 2024). It is located approximately 0.24 miles southwest of the site.

The depth to groundwater was determined by drilling a borehole permitted by the New Mexico Office of the State Engineer within a 0.5-mile radius of the site. The borehole was advanced to a depth of 55 feet. No water was found to be present at that time. Documentation related to the exploratory borehole is included in Appendix A.

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. It is identified in the National Wetlands Inventory approximately 1 mile east of the site (United States Fish and Wildlife Service, 2024).

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. The closure criteria research documentation is included in Appendix A.

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Table 1. Closure Criteria Determination			
Site Name: Gaucho Unit #006H CTB			
Spill Coordinates: 32.385638,-103.485546		X: 642453	Y: 3584191
Site Specific Conditions		Value	Unit
1	Depth to Groundwater (nearest reference)	>60	feet
	Distance between release and nearest DTGW reference	1,252	feet
		0.24	miles
Date of nearest DTGW reference measurement		March 25, 2024	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	5,291	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	15,522	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	81,187	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	4,041	feet
	ii) Within 1000 feet of any fresh water well or spring	4,041	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	8,092	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
	Distance between release and nearest registered mine	100,688	feet
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
	Distance between release and nearest unstable area	98,007	feet
10	Within a 100-year Floodplain	500	year
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	133,410	feet
11	Soil Type	Fine sand	
12	Ecological Classification	Sandhills	
13	Geology	Qep	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	51-100'	<50' 51-100' >100'

The closure criteria for the site will be determined for the release will follow the constituent concentration limits as presented in Table 2.

Table 2. Closure Criteria for Soils to Remediation & Reclamation Standards		
0-4 feet bgs (19.15.29.13)	Constituent	Limit
	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
DTGW 51-100 feet (19.15.29.12)	Chloride	10,000 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 xylene

5.0 Remedial Actions Taken

An initial site inspection of the release area was conducted on October 17, 2023, and characterization was completed on January 31, 2024, which identified the area of the release specified in the initial C-141 Report. During characterization of the site, the impacted area per closure criteria was determined to be approximately 15,614 square feet with a perimeter of 1,597 feet. The Daily Field Reports (DFRs) associated with the site visits are included in Appendix B. Characterization sample locations and approximate release areas are presented on Figure 1. Characterization field screening and laboratory results are summarized in Table 3.

Remediation efforts began on September 12, 2024, and were finalized on October 23, 2024. Vertex personnel supervised the excavation of impacted soils. Field screening was conducted and consisted of analysis with a Dexsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and Silver Nitrate Titration (chlorides). Field screening results were used to identify areas requiring further remediation. Soils were removed to depths of 1, 2, and 4 feet below ground surface (bgs). Excavation and sampling locations are presented on Figure 2 and DFRs documenting various phases of the remediation are presented in Appendix B.

Notifications that confirmatory samples were being collected were provided to the NMOCD and are included in Appendix C. Confirmatory composite samples were collected from the base and walls of the excavation in increments no greater than 200 square feet. A total of 32 samples, 20 base samples and 12 wall samples, were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Eurofins 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 chlorides (EPA Method 300.0). Laboratory results are presented in Table 4 and the laboratory data reports are included in Appendix D. All confirmatory samples collected and analyzed were below closure criteria for the site.

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6.0 Closure Request

The release area was fully delineated. Confirmatory samples were analyzed by the laboratory and found to be below allowable concentrations as per the NMAC Closure Criteria for Soils Impacted by a release location where depth to ground water is 51 - 100 feet below ground surface. Based on these findings, Devon requests that this release be closed.

Vertex recommends no additional reclamation or remediation actions to address the release at Gaucho Unit #006. Laboratory analyses of the confirmation samples showed constituent of concern concentration levels below NMOCD closure criteria for areas where depth to groundwater is "between 51 and 100 feet to groundwater" as shown in Table 2. There are no anticipated or imminent risks to human, ecological, or hydrological receptors associated with the release site.

On behalf of Devon Energy Production Company, LP., Vertex requests that the incident (nAPP2327932405) be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. Devon certifies that all information in this report and the attachments is correct and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain closure on the historical releases at the site.

Should you have any questions or concerns, please do not hesitate to contact Chad Hensley at 575.200.6167 or chensley@vertexresource.com.

Devon Energy Production Company, LP
Gaucho Unit #006

Release Assessment and Closure
November 2024

7.0 References

Google Inc. (2024). *Google Earth Pro (Version 7.3.3)* [Software]. Retrieved from <https://earth.google.com>

New Mexico Bureau of Geology and Mineral Resources. (2024). *Interactive Geologic Map*. Retrieved from <https://maps.nmt.edu/>

New Mexico Office of the State Engineer. (2024). *New Mexico Water Rights Reporting System*. Retrieved from <http://nmwrrs.ose.state.nm.us/nmwrrs/>

New Mexico Oil Conservation Division. (2018). *New Mexico Administrative Code – Natural Resources and Wildlife Oil and Gas Releases*. Santa Fe, New Mexico.

United States Department of Agriculture, Natural Resources Conservation Service. (2024). *Web Soil Survey*. Retrieved from <https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>

United States Department of Homeland Security, Federal Emergency Management Agency. (2024). *FEMA Flood Map Service: Search by Address*. Retrieved from <https://msc.fema.gov/portal/search?AddressQuery=malaga%20new%20mexico#searchresultsanchor>

United States Department of the Interior, Bureau of Land Management. (2018). *New Mexico Cave/Karst*. Retrieved from https://www.nm.blm.gov/shapeFiles/cfo/carlsbad_spatial_data.html

United States Fish and Wildlife Service. (2024). *National Wetland Inventory - Surface Waters and Wetlands*. Retrieved from <https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/>

Devon Energy Production Company, LP
Gaucho Unit #006

Release Assessment and Closure
November 2024

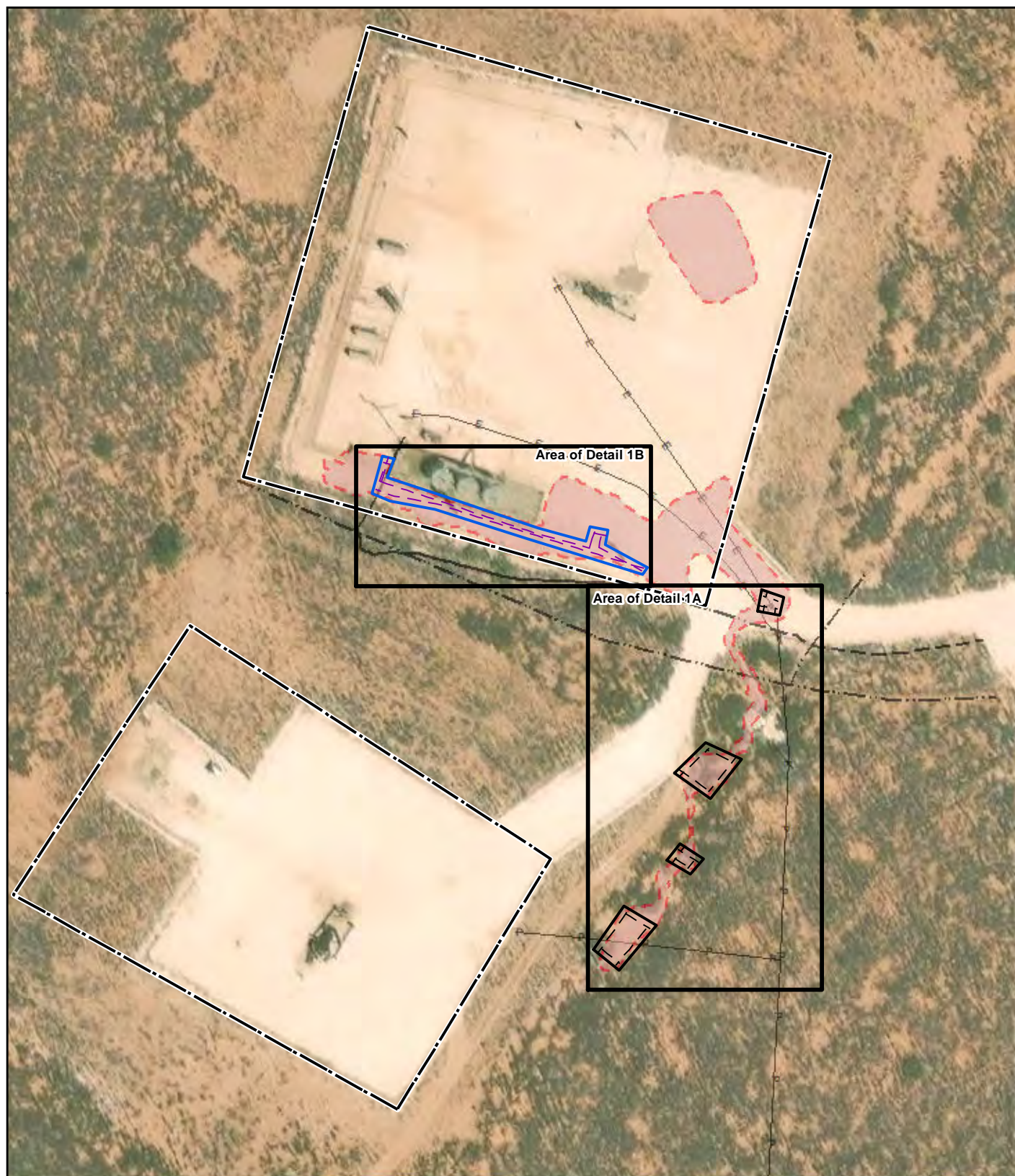
8.0 Limitations

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, except for the New Mexico Oil Conservation Division, 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 damage 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

Document Path: S:\04 - Geomatics\1-Projects\US PROJECTS\Devon Energy Corporation\2023\23E-05499 - Gaucha Unit #006\Figure 1 Overview Site Schematic (23E-05499)\D19083.mxd



- | | | |
|---------------------------------|----------------------------|-------------------------------|
| — Electrical Line (Underground) | — Powerline | Excavation (Pad) |
| - - Pipeline (Aboveground) | Approximate Lease Boundary | Release Area (~15,614 sq.ft.) |
| - ··· Pipeline (Underground) | Excavation (Pasture) | |



0 15 30 60 ft
NAD 1983 UTM Zone 13N
Date: Aug 19/24

Map Center:
Lat: 32.385680,
Long: -103.485957



Overview Site Schematic Gaucha Unit #006

FIGURE:
1

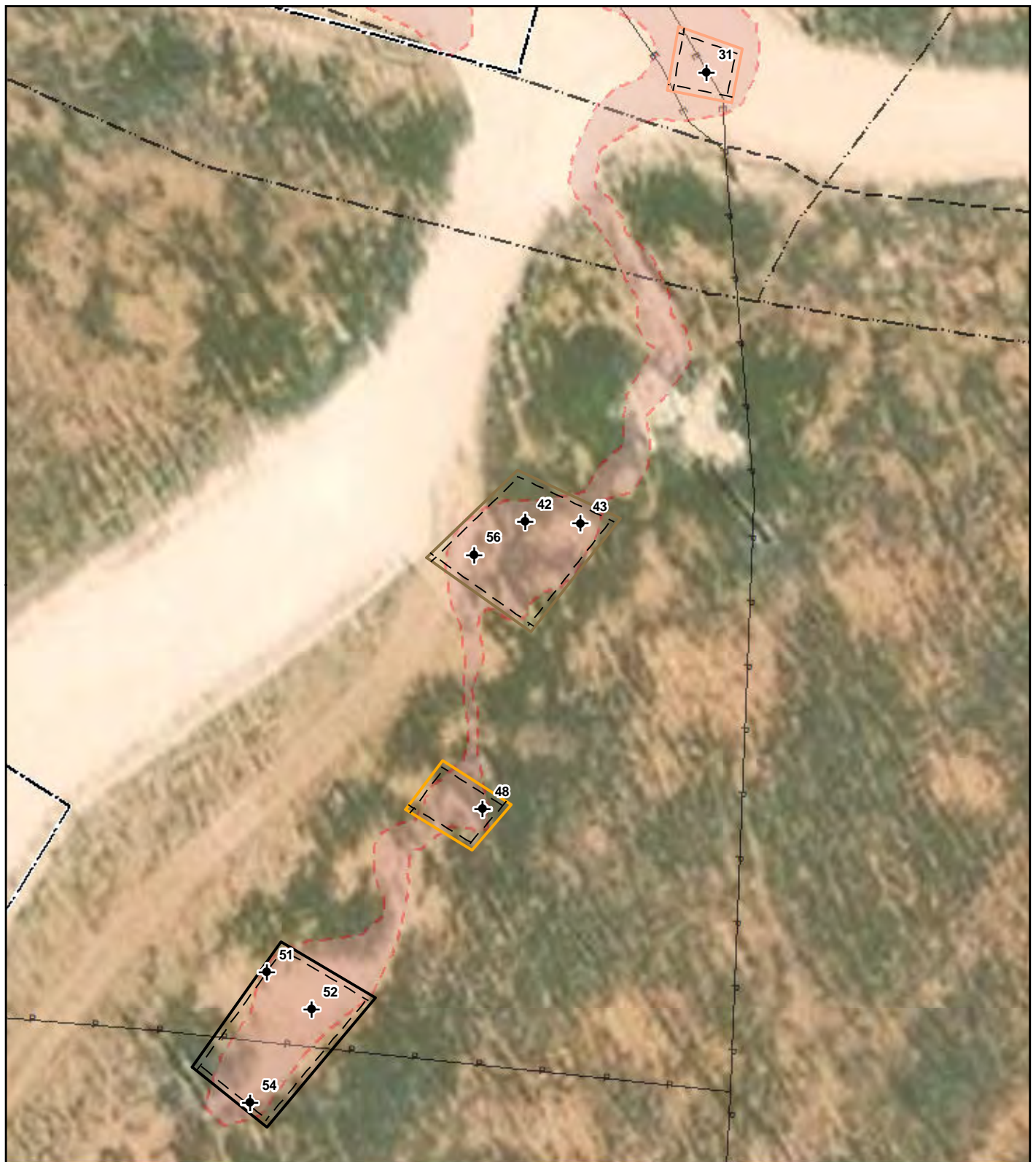


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Note: Georeferenced image from Esri, 2023. Approximate site boundary from imagery by Vertex Professional Services Ltd. (Vertex), 2024. Site features from GPS by Vertex, 2024.

VERSATILITY. EXPERTISE.

Document Path: S:\04 - Geomatics\1 - Projects\US PROJECTS\Devon Energy Corporation\2023\23E-05499 - Gaudho Unit #006\Figure 1a Pasture Characterization Schematic Proposed Excavation (23E-05499)ID19083.mxd



- | | | |
|----------------------------------|--|---|
| ✦ Borehole (Prefixed by "BH23-") | — Powerline | Proposed Excavation to 4 ft. bgs (~1,033 sq.ft 132 ft.) |
| — Electrical Line (Underground) | Proposed Excavation to 1 ft. bgs (~247 sq.ft 63 ft.) | Release Area (~15,614 sq.ft.) |
| --- Pipeline (Aboveground) | Proposed Excavation to 4 ft. bgs (~301 sq.ft 70.3 ft.) | |
| ... Pipeline (Underground) | Proposed Excavation to 4 ft. bgs (~994 sq.ft 128 ft.) | |



0 5 10 20 ft
NAD 1983 UTM Zone 13N
Date: Aug 19/24

Map Center:
Lat: 32.385298,
Long: -103.485513



Characterization Sampling Site Schematic (Pasture) Gaudho Unit #006

FIGURE:
1A

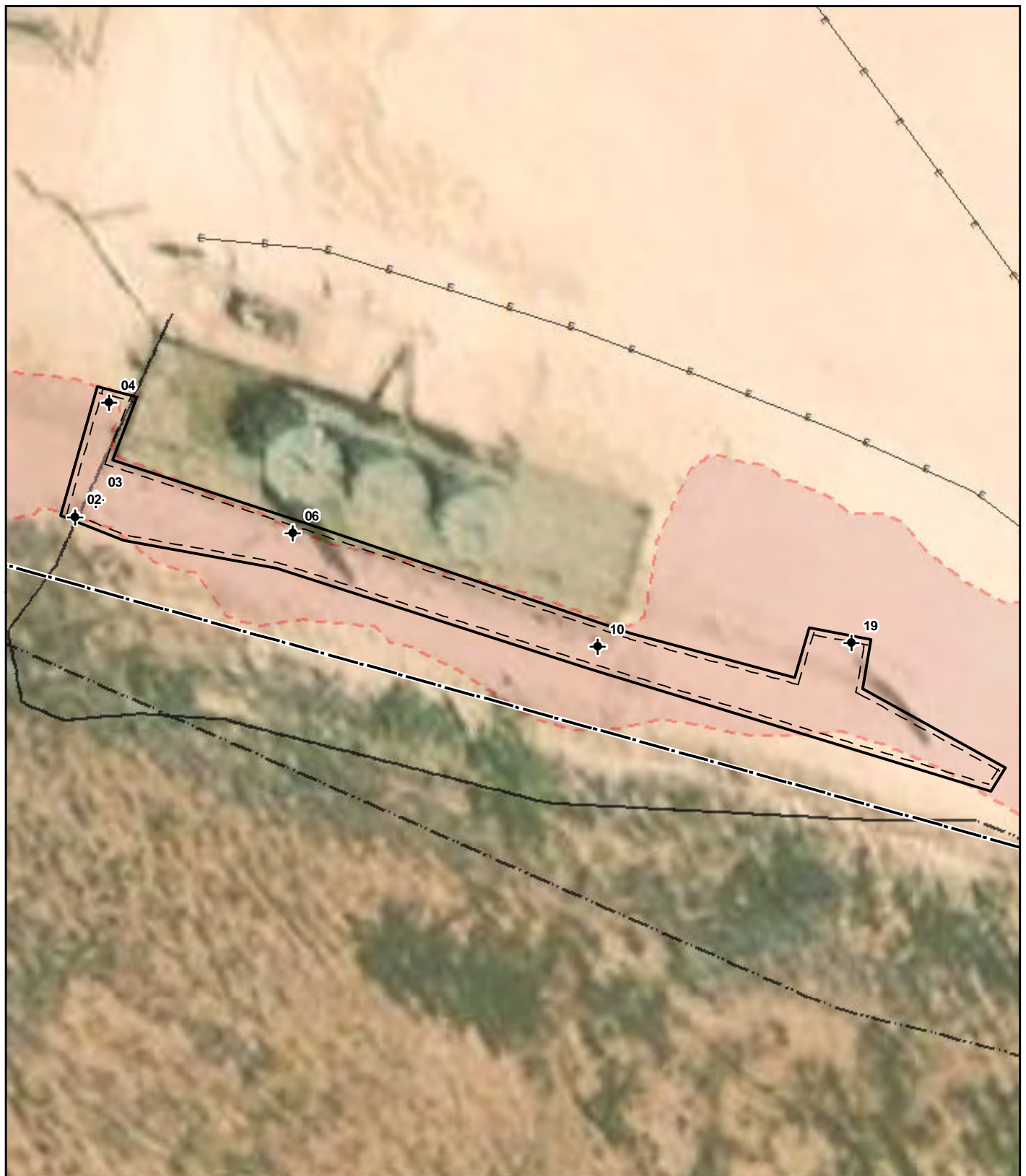


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Note: Georeferenced image from Esri, 2023. Approximate site boundary from imagery by Vertex Professional Services Ltd. (Vertex), 2024. Site features from GPS by Vertex, 2024.

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Document Path: S:\04 - Geomatics\1 - Projects\US PROJECTS\Devon Energy Corporation\2023\23E-05499 - Gaudho Unit #006\Figure 1B Pad Characterization Schematic Proposed Excavation (23E-05499)ID19083.mxd



- | | | |
|----------------------------------|------------------------------|---|
| ◆ Borehole (Prefixed by "BH23-") | — · — Pipeline (Underground) | Proposed Excavation to 2 ft. bgs (~2,520 sq.ft 481 ft.) |
| — Electrical Line (Underground) | — Powerline | Release Area (~15,614 sq.ft.) |
| — Pipeline (Aboveground) | Approximate Lease Boundary | |



0 5 10 20 ft
NAD 1983 UTM Zone 13N
Date: Aug 19/24

Map Center:
Lat: 32.385833,
Long: -103.485978



Characterization Sampling Site Schematic (Pad) Gaudho Unit #006

FIGURE:

1B

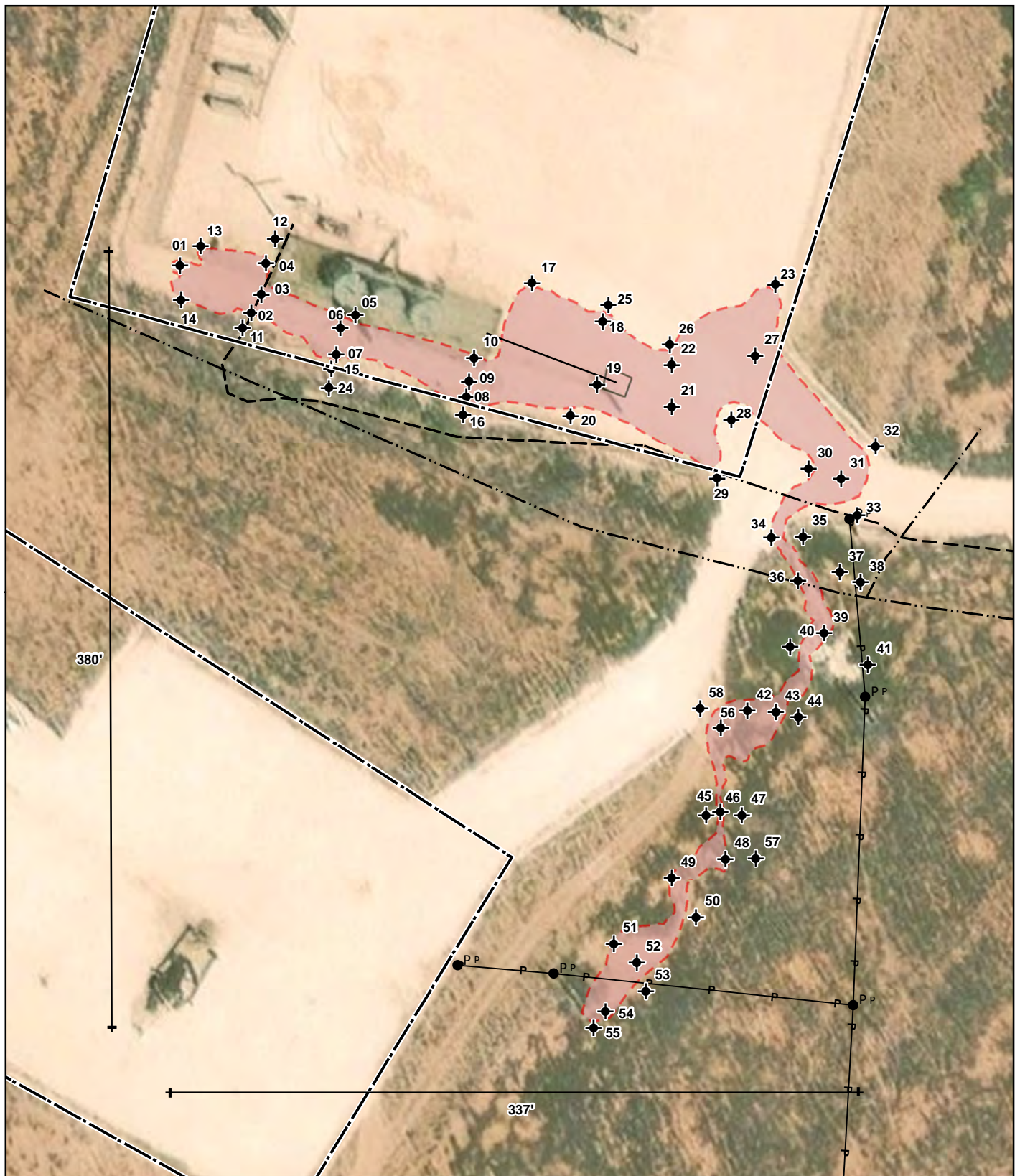


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Note: Georeferenced image from Esri, 2023. Approximate site boundary from imagery by Vertex Professional Services Ltd. (Vertex), 2024. Site features from GPS by Vertex, 2024.

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Document Path: S:\04 - Geomatics\1-Projects\US PROJECTS\Devon Energy Corporation\2023\23E-05499 - Gaucho Unit #006\Figure 1 Characterization Schematic South (23E-05499) ID17980.mxd



- | | | |
|--------------------------------|------------------------|---|
| Borehole (Prefixed by "BH23-") | Pipeline (Aboveground) | Approximate Lease Boundary |
| Power Pole | Pipeline (Underground) | Approximate Release Area (~15,614 sq.ft.) |
| Infrastructure (Existing) | Powerline | Infrastructure (Existing) |



0 10 20 40 ft
NAD 1983 UTM Zone 13N
Date: Mar 14/24

Map Center:
Lat: 32.385504,
Long: -103.485877



Characterization Sampling Site Schematic Gaucho Unit #006

FIGURE:

1C



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Note: Georeferenced image from Esri, 2023. Approximate site boundary from imagery by Vertex Professional Services Ltd. (Vertex), 2024. Site features from GPS by Vertex, 2023.

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- Base Sample (Prefixed by "BS24-")
- ▲ Wall Sample (Prefixed by "WS24-")
- Approximate Lease Boundary
- Excavation to 1' bgs (~196 sq.ft. | 56 ft.)
- Excavation to 2' bgs (~2,844 sq.ft. | 497 ft.)
- Center Excavation to 4' bgs (~197 sq.ft. | 56 ft.)
- North Excavation to 4' bgs (~198 sq.ft. | 58 ft.)
- South Excavation to 4' bgs (~396 sq.ft. | 92 ft.)
- Area of Excavation Walls to 2' bgs (~996 sq.ft.)
- Area of Excavation Walls to 1' bgs (~57 sq.ft.)
- Area of Excavation Walls to 4' bgs (~864 sq.ft.)



0 5 10 20 ft
NAD 1983 UTM Zone 13N
Date: Oct 10/24

Map Center:
Lat: 32.385439,
Long: -103.485781



Confirmation Sampling Site Schematic (Pasture) Gaucha Unit #006

FIGURE:
2



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Note: Georeferenced image from Esri, 2023. Approximate site boundary from imagery by Vertex Professional Services Ltd. (Vertex), 2024. Site features from GPS by Vertex, 2024.

VERSATILITY. EXPERTISE.

TABLES

Client Name: Devon Energy Production Company, LP

Site Name: Gaucho Unit #006

NM OCD Tracking #: nAPP2327932405

Project #: 23E-05499

Lab Reports: 2310D40, 2310E22, 2310E25, 2310E27, 2311069, 2311218, 2311281, and 2402095

Table 3. Characterization Sample Field Screen and Laboratory Results - Depth to Groundwater 51-100' feet bgs

Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
										Chloride Concentration
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH23-01	0	October 26, 2023	ND	ND	ND	ND	ND	ND	ND	320
	2	October 26, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-02	0	October 26, 2023	ND	ND	ND	13	ND	13	13	ND
	2	October 26, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	4	October 27, 2023	ND	ND	ND	ND	ND	ND	ND	110
BH23-03	0	October 26, 2023	ND	ND	ND	11,000	5,100	11,000	16,100	5,600
	2	October 26, 2023	ND	ND	ND	20	ND	20	20	1,600
	4	October 26, 2023	ND	ND	ND	ND	ND	ND	ND	220
BH23-04	0	October 26, 2023	ND	ND	ND	2,200	2,100	2,200	4,300	400
	2	October 26, 2023	ND	ND	ND	ND	ND	ND	ND	130
BH23-05	0	October 26, 2023	ND	ND	ND	17	ND	17	17	330
	2	October 26, 2023	ND	ND	ND	ND	ND	ND	ND	94
BH23-06	0	October 26, 2023	ND	ND	0.19	2,800	1,300	2,800	4,100	8,300
	2	October 26, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-07	0	October 26, 2023	ND	ND	ND	ND	ND	ND	ND	3,200
	2	October 26, 2023	ND	ND	ND	19	ND	19	19	970
	4	October 27, 2023	ND	ND	ND	ND	ND	ND	ND	81
BH23-08	0	October 26, 2023	ND	ND	ND	82	91	82	173	6,300
	2	October 26, 2023	ND	ND	ND	ND	ND	ND	ND	410
BH23-09	0	October 26, 2023	ND	ND	ND	200	200	200	400	8,600
	2	October 26, 2023	ND	ND	ND	ND	ND	ND	ND	2,200
	4	October 27, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-10	0	October 26, 2023	ND	ND	ND	6,900	4,900	6,900	11,800	810
	2	October 26, 2023	ND	ND	ND	15	ND	15	15	72
BH23-11	0	October 27, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 27, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-12	0	October 27, 2023	ND	ND	ND	ND	ND	ND	ND	330
	2	October 27, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-13	0	October 27, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 27, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-14	0	October 27, 2023	ND	ND	ND	ND	ND	ND	ND	190
	2	October 27, 2023	ND	ND	ND	ND	ND	ND	ND	130
BH23-15	0	October 27, 2023	ND	ND	ND	15	ND	15	15	230
	2	October 27, 2023	ND	ND	ND	ND	ND	ND	ND	75
BH23-16	0	October 27, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 27, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-17	0	October 27, 2023	ND	ND	ND	ND	ND	ND	ND	83
	2	October 27, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-18	0	October 27, 2023	ND	ND	ND	ND	ND	ND	ND	2,000
	2	October 27, 2023	ND	ND	ND	ND	ND	ND	ND	ND

Client Name: Devon Energy Production Company, LP

Site Name: Gaucho Unit #006

NM OCD Tracking #: nAPP2327932405

Project #: 23E-05499

Lab Reports: 2310D40, 2310E22, 2310E25, 2310E27, 2311069, 2311218, 2311281, and 2402095

Table 3. Characterization Sample Field Screen and Laboratory Results - Depth to Groundwater 51-100' feet bgs

Sample Description			Petroleum Hydrocarbons							
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					Inorganic
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
BH23-19	0	October 27, 2023	ND	ND	ND	ND	ND	ND	ND	13,000
	2	October 27, 2023	ND	ND	ND	ND	ND	ND	ND	1,900
	4	October 28, 2023	ND	ND	ND	ND	ND	ND	ND	1,400
	6	October 28, 2023	ND	ND	ND	ND	ND	ND	ND	810
	8	October 28, 2023	ND	ND	ND	ND	ND	ND	ND	170
BH23-20	0	October 27, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 27, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-21	0	October 27, 2023	ND	ND	ND	63	ND	63	63	9,200
	2	October 27, 2023	ND	ND	ND	46	ND	46	46	ND
	4	October 28, 2023	ND	ND	ND	11	ND	11	11	ND
BH23-22	0	October 27, 2023	ND	ND	ND	180	61	180	241	60
	2	October 27, 2023	ND	ND	ND	12	ND	12	12	ND
BH23-23	0	October 27, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 27, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-24	0	October 28, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 28, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-25	0	October 28, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 28, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-26	0	October 28, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 28, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-27	0	October 28, 2023	ND	ND	ND	11	ND	11	11	6,200
	2	October 28, 2023	ND	ND	ND	ND	ND	ND	ND	130
BH23-28	0	October 28, 2023	ND	ND	ND	ND	ND	ND	ND	64
	2	October 28, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-29	0	October 28, 2023	ND	ND	ND	17	ND	17	17	ND
	2	October 28, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-30	0	October 28, 2023	ND	ND	ND	ND	ND	ND	ND	100
	2	October 28, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-31	0	October 28, 2023	ND	ND	ND	ND	ND	ND	ND	6,700
	2	October 28, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-32	0	October 28, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 28, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-33	0	October 28, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 28, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-34	0	October 29, 2023	ND	ND	ND	ND	ND	ND	ND	62
	2	October 29, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-35	0	October 29, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 29, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-36	0	October 29, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 29, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-37	0	October 29, 2023	ND	ND	ND	39	ND	39	39	ND
	2	October 29, 2023	ND	ND	ND	ND	ND	ND	ND	ND

Client Name: Devon Energy Production Company, LP

Site Name: Gaucho Unit #006

NM OCD Tracking #: nAPP2327932405

Project #: 23E-05499

Lab Reports: 2310D40, 2310E22, 2310E25, 2310E27, 2311069, 2311218, 2311281, and 2402095

Table 3. Characterization Sample Field Screen and Laboratory Results - Depth to Groundwater 51-100' feet bgs

Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
										(mg/kg)
BH23-38	0	October 29, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 29, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-39	0	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	63
	2	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-40	0	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-41	0	October 31, 2023	ND	ND	ND	13	ND	13	13	63
	2	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	61
BH23-42	0	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	74
	4	November 2, 2023	ND	ND	ND	ND	ND	ND	ND	1,500
	6	November 2, 2023	ND	ND	ND	ND	ND	ND	ND	1,800
	8	November 2, 2023	ND	ND	ND	ND	ND	ND	ND	2,200
	10	November 2, 2023	ND	ND	ND	ND	ND	ND	ND	1,700
	12	January 31, 2024	ND	ND	ND	ND	ND	ND	ND	660
BH23-43	0	October 31, 2023	ND	ND	ND	12	ND	12	12	ND
	2	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-44	0	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-45	0	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-46	0	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	130
	2	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-47	0	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-48	0	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	2,400
	4	November 2, 2023	ND	ND	ND	ND	ND	ND	ND	2,800
	6	November 2, 2023	ND	ND	ND	ND	ND	ND	ND	7,100
	8	November 2, 2023	ND	ND	ND	ND	ND	ND	ND	4,000
	10	November 2, 2023	ND	ND	ND	ND	ND	ND	ND	4,300
	11	January 31, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BH23-49	0	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-50	0	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-51	0	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	ND

Client Name: Devon Energy Production Company, LP

Site Name: Gaucho Unit #006

NM OCD Tracking #: nAPP2327932405

Project #: 23E-05499

Lab Reports: 2310D40, 2310E22, 2310E25, 2310E27, 2311069, 2311218, 2311281, and 2402095

Table 3. Characterization Sample Field Screen and Laboratory Results - Depth to Groundwater 51-100' feet bgs										
Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
BH23-52	0	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	2,000
	2	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	3,300
	4	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	1,400
	6	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	1,400
	8	November 2, 2023	ND	ND	ND	ND	ND	ND	ND	2,100
	10	November 2, 2023	ND	ND	ND	ND	ND	ND	ND	1,400
	11	January 31, 2024	-	-	-	-	-	-	-	-
	13	January 31, 2024	ND	ND	ND	ND	ND	ND	ND	130
BH23-53	0	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-54	0	October 31, 2023	ND	ND	ND	10	ND	10	10	1,600
	2	October 31, 2023	ND	ND	ND	ND	ND	ND	ND	2,800
	4	November 2, 2023	ND	ND	ND	ND	ND	ND	ND	2,100
	6	November 3, 2023	-	-	-	-	-	-	-	-
	8	November 3, 2023	ND	ND	ND	ND	ND	ND	ND	1,300
	10	November 3, 2023	ND	ND	ND	ND	ND	ND	ND	500
BH23-55	0	November 2, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	November 2, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-56	0	November 2, 2023	ND	ND	ND	ND	ND	ND	ND	1,300
	2	November 2, 2023	ND	ND	ND	ND	ND	ND	ND	2,400
BH23-57	0	November 2, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	November 2, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-58	0	November 2, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	November 2, 2023	ND	ND	ND	ND	ND	ND	ND	ND

"ND" Not Detected at the Reporting Limit

"- " indicates not analyzed/assessed

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

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

Client Name: Devon Energy Production Company, LP

Site Name: Gaucho Unit #006

NM OCD Tracking #: nAPP2327932405

Project #: 23E-05499

Lab Reports: 885-12300-1 and 01058-0007

Table 4. Confirmation Sample Field Screen and Laboratory Results - Depth to Groundwater 51-100' feet bgs										
Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
BS24-01	2	September 16, 2024	ND	ND	ND	55	ND	55	ND	610
BS24-02	2	September 16, 2024	ND	ND	ND	88	61	88	149	ND
BS24-03	2	September 16, 2024	ND	ND	ND	ND	ND	ND	ND	1,200
BS24-04	2	September 16, 2024	ND	ND	ND	9.9	ND	9.9	9.9	1,500
BS24-05	2	September 16, 2024	ND	ND	ND	ND	ND	ND	ND	2,300
BS24-06	2	September 16, 2024	ND	ND	ND	ND	ND	ND	ND	1,400
BS24-07	2	September 16, 2024	ND	ND	ND	ND	ND	ND	ND	1,500
BS24-08	2	September 16, 2024	ND	ND	ND	ND	ND	ND	ND	2,200
BS24-09	2	September 16, 2024	ND	ND	ND	14	ND	14	14	1,600
BS24-10	2	September 16, 2024	ND	ND	ND	ND	ND	ND	ND	1,900
BS24-11	2	September 16, 2024	ND	ND	ND	270	240	270	510	690
BS24-12	2	September 16, 2024	ND	ND	ND	ND	ND	ND	ND	750
BS24-13	2	September 16, 2024	ND	ND	ND	ND	ND	ND	ND	450
BS24-14	2	September 16, 2024	ND	ND	ND	170	130	170	300	1,100
BS24-15	2	September 16, 2024	ND	ND	ND	770	780	770	1,550	240
BS24-16	1	September 16, 2024	ND	ND	ND	ND	ND	ND	ND	360
BS24-17	4	September 16, 2024	ND	ND	ND	ND	ND	ND	ND	240
BS24-18	4	September 16, 2024	ND	ND	ND	ND	ND	ND	ND	950
BS24-19	4	September 16, 2024	ND	ND	ND	ND	ND	ND	ND	410
BS24-20	4	September 16, 2024	ND	ND	ND	ND	ND	ND	ND	ND
WS24-01	0-2	September 16, 2024	ND	ND	ND	ND	ND	ND	ND	66
WS24-02	0-2	September 16, 2024	ND	ND	ND	ND	ND	ND	ND	410
WS24-03	0-2	September 16, 2024	ND	ND	ND	ND	ND	ND	ND	ND
WS24-04	0-2	September 16, 2024	ND	ND	ND	ND	ND	ND	ND	230
WS24-05	0-1	September 16, 2024	ND	ND	ND	ND	ND	ND	ND	400
WS24-06	0-4	September 16, 2024	ND	ND	ND	ND	ND	ND	ND	ND
WS24-07	0-4	September 16, 2024	ND	ND	ND	ND	ND	ND	ND	64
WS24-08	0-4	September 16, 2024	ND	ND	ND	ND	ND	ND	ND	950
	0-4	October 23, 2024	ND	ND	ND	ND	ND	ND	ND	209
WS24-09	0-4	September 16, 2024	ND	ND	ND	ND	ND	ND	ND	150
WS24-10	0-2	October 11, 2024	ND	ND	ND	ND	ND	ND	ND	ND
WS24-11	0-4	October 11, 2024	ND	ND	ND	ND	ND	ND	ND	347
WS24-12	0-4	October 11, 2024	ND	ND	ND	ND	ND	ND	ND	63

"ND" Not Detected at the Reporting Limit

"- " indicates not analyzed/assessed

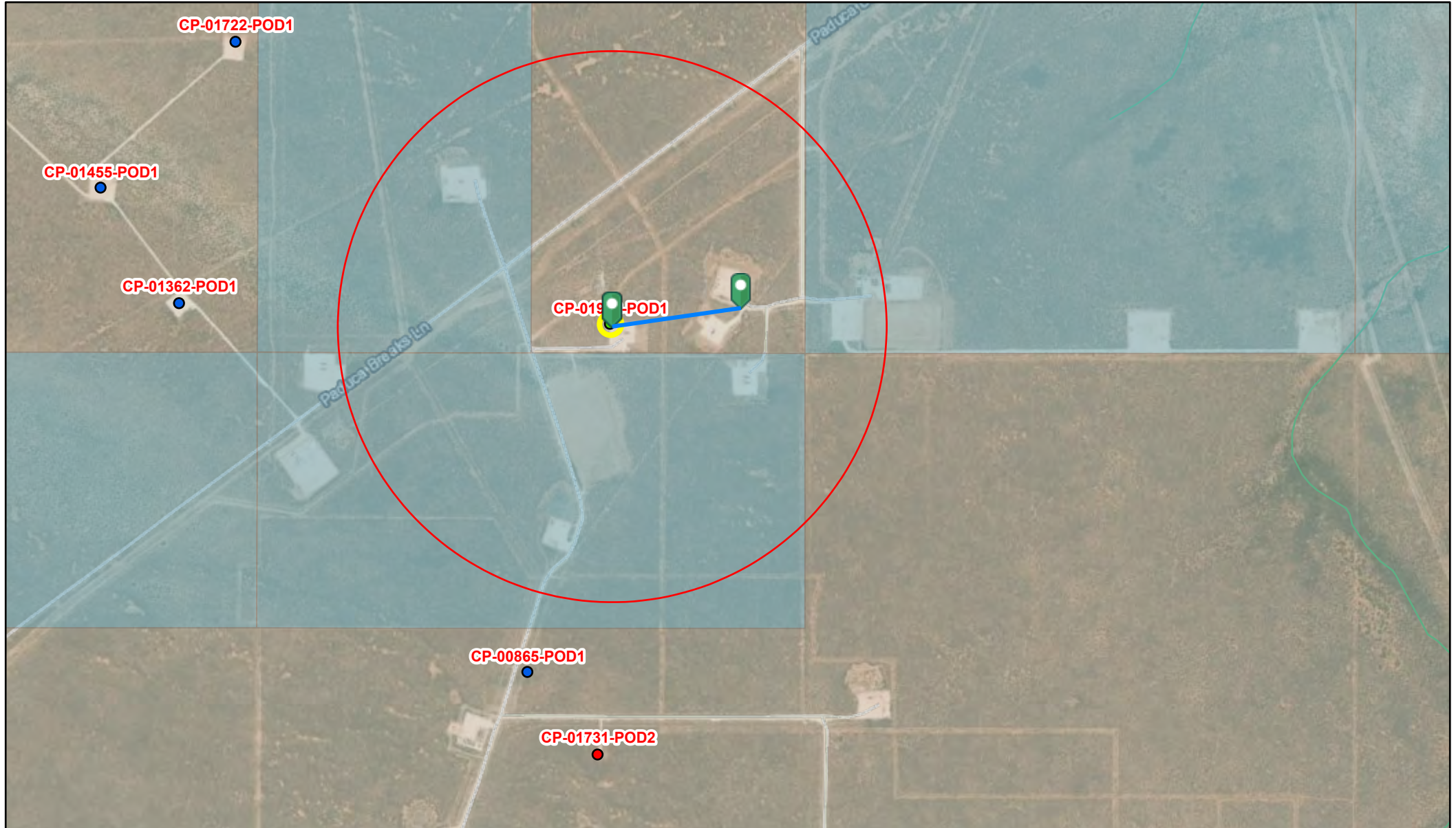
Bold and grey shaded indicates exceedance outside of NMOCD Remediation Closure Criteria

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

APPENDIX A – Closure Criteria Research Documentation

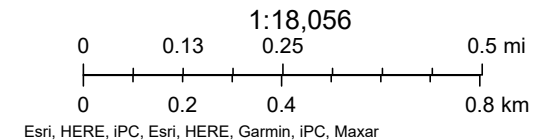
OSE POD Location Map

CP-01963-POD1: 0.24 miles away (Page 27 of 411)



2/21/2024, 11:11:07 AM

- | | | | |
|------------------------|-----------------------|--------------------------------|-------------------------------------|
| Override 1 | Pending | Water Right Regulations | New Mexico State Trust Lands |
| GIS WATERS PODs | Plugged | Closure Area | Both Estates |
| Active | OSE District Boundary | Artesian Planning Area | NHD Flowlines |
| | | | Stream River |









(R=POD has been replaced,
O=orphaned,
C=the file is closed)

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

(In feet)

POD Number	Code	POD	County	Q Q Q						X	Y	Distance	Depth	Well	Depth	Water	Column	
		Sub-basin		64	16	4	Sec	Tws	Rng									
CP 00865 POD1		CP	LE	2	2	3	20	22S	34E	641845	3583118		1232		885		605	280
CP 01362 POD1		CP	LE	3	4	4	18	22S	34E	640809	3584182		1644		1032		613	419
CP 01722 POD1		CP	LE	4	4	2	18	22S	34E	640964	3584949		1671		1122		785	337
CP 01455 POD1		CP	LE	4	1	4	18	22S	34E	640574	3584515		1906		1033		615	418

Maximum Depth: **785 feet**

Record Count: 4

UTMNAD83 Radius Search (in meters):

Radius: 2000










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.

11/7/23 12:42 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer
Active & Inactive Points of Diversion
 (with Ownership Information)

WR File Nbr	(acre ft per annum)				County	POD Number	Well Tag	(R=POD has been replaced and no longer serves this file, C=the file is closed)			(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)					(NAD83 UTM in meters)					
	Sub basin	Use	Diversion	Owner				Code	Grant	Source	q	q	q	X	Y	Distance					
	CP	MON						LE	CP 01963 POD1	NA				4	3	4	17	22S	34E		
CP 01963			0	DEVON ENERGY	LE	CP 01963 POD1					Shallow	2	2	3	20	22S	34E	642073	3584138		383
CP 00865	CP	COM	100	MERCHANT LIVESTOCK CO	LE	CP 00865 POD1					Shallow	2	2	3	20	22S	34E	641845	3583118		1232
CP 01046	CP	PRO	0	YATES PETROLEUM	LE	CP 00865 POD1					Shallow	2	2	3	20	22S	34E	641845	3583118		1232
CP 01047	CP	PRO	0	NOVA MUD	LE	CP 00865 POD1					Shallow	2	2	3	20	22S	34E	641845	3583118		1232
CP 01048	CP	PRO	0	GLENN'S WATER WELL SERVICE	LE	CP 00865 POD1					Shallow	2	2	3	20	22S	34E	641845	3583118		1232
CP 01085	CP	PRO	0	GLENN'S WATER WELL SRVC., INC.	LE	CP 00865 POD1					Shallow	2	2	3	20	22S	34E	641845	3583118		1232
CP 01086	CP	PRO	0	TD WATER SERVICES	LE	CP 00865 POD1					Shallow	2	2	3	20	22S	34E	641845	3583118		1232
CP 01087	CP	PRO	0	TONYA'S PERMIT SERVICE	LE	CP 00865 POD1					Shallow	2	2	3	20	22S	34E	641845	3583118		1232
CP 01291	CP	COM	100	MERCHANT LIVESTOCK CO	LE	CP 00865 POD1					Shallow	2	2	3	20	22S	34E	641845	3583118		1232
CP 01731	CP	COM	450	ROY TAYLOR	LE	CP 01731 POD2	20C94					3	1	4	20	22S	34E	642053	3582883		1367
CP 01362	CP	EXP	0	MERCHANT LIVESTOCK CO	LE	CP 01362 POD1					Artesian	3	4	4	18	22S	34E	640808	3584182		1644
CP 01363	CP	COM	100	MERCHANT LIVESTOCK CO	LE	CP 01362 POD1					Artesian	3	4	4	18	22S	34E	640808	3584182		1644
CP 01453	CP	COM	100	ATKINS ENGR ASSOC INC	LE	CP 01362 POD1					Artesian	3	4	4	18	22S	34E	640808	3584182		1644
CP 01456	CP	PRO	0	COG OPERATING	LE	CP 01362 POD1					Artesian	3	4	4	18	22S	34E	640808	3584182		1644
CP 01457	CP	PRO	0	COG OPERATING	LE	CP 01362 POD1					Artesian	3	4	4	18	22S	34E	640808	3584182		1644
CP 01458	CP	PRO	0	COG OPERATING	LE	CP 01362 POD1					Artesian	3	4	4	18	22S	34E	640808	3584182		1644
CP 01731	CP	COM	450	ROY TAYLOR	LE	CP 01731 POD3	20C93					4	4	4	20	22S	34E	642631	3582544		1656
CP 01722	CP	COM	100	MERCHANT LIVESTOCK CO/GWWS INC	LE	CP 01722 POD1	NA				Artesian	4	4	2	18	22S	34E	640963	3584949		1671
CP 01731	CP	COM	450	ROY TAYLOR	LE	CP 01731 POD1	20C95					4	4	3	20	22S	34E	641803	3582573		1743
CP 01630	CP	EXP	0	S2W CONTRACTING, LLC	LE	CP 01630 POD2						3	4	3	21	22S	34E	643130	3582496		1824
CP 01454	CP	COM	200	MERCHANT LIVESTOCK CO	LE	CP 01455 POD1					Artesian	4	1	4	18	22S	34E	640574	3584515		1906
CP 01455	CP	EXP	0	ATKINS ENGR ASSOC INC	LE	CP 01455 POD1					Artesian	4	1	4	18	22S	34E	640574	3584515		1906
CP 01494	CP	PRO	0	COG OPERATING	LE	CP 01455 POD1					Artesian	4	1	4	18	22S	34E	640574	3584515		1906
CP 01495	CP	PRO	0	COG OPERATING	LE	CP 01455 POD1					Artesian	4	1	4	18	22S	34E	640574	3584515		1906
CP 01496	CP	PRO	0	COG OPERATING	LE	CP 01455 POD1					Artesian	4	1	4	18	22S	34E	640574	3584515		1906

Record Count: 25



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) CP 01963		WELL TAG ID NO.		OSE FILE NO(S). CP-1963-POD1			
	WELL OWNER NAME(S) Devon Energy Resources				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 23	SECONDS 6.79	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
	LATITUDE	LONGITUDE	* DATUM REQUIRED: WGS 84					
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 3-25-24		DRILLING ENDED 3-25-24		DEPTH OF COMPLETED WELL (FT) 60'	BORE HOLE DEPTH (FT) 60'	DEPTH WATER FIRST ENCOUNTERED (FT) N/A	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN +add <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED) Centralizer info below					STATIC WATER LEVEL IN COMPLETED WELL (FT) 0'	DATE STATIC MEASURED 3-28-24	
	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	50	6"	PVC 2" SCH40	Thread	2"	SCH40	N/A
	50	60	6"	PVC 2" SCH40	Thread	2"	SCH40	.02
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. CP-01963	POD NO. 1	TRN NO. 745236
LOCATION 22S. 34E. 17. 434	WELL TAG ID NO.	PAGE 1 OF 2

Released to Imaging: 2/25/2025 11:04:45 AM

Mike A. Hamman, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 745230
File Nbr: CP 01963
Well File Nbr: CP 01963 POD1

Apr. 24, 2024

DALE WOODALL
DEVON ENERGY
6488 7 RIVERS HWY
ARTESIA, NM 88210

Greetings:

The above numbered permit was issued in your name on 03/30/2023.

The Well Record was received in this office on 04/17/2024, stating that it had been completed on 03/25/2024, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 03/29/2024.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Rodolfo Chavez".


Rodolfo Chavez
(575) 622-6521

drywell



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)		(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	CP 01963 POD1	4	3	4	17	22S	34E	642073	3584138 

Driller License:		Driller Company:	
Driller Name:			
Drill Start Date:		Drill Finish Date:	
Log File Date:		PCW Rev Date:	
Pump Type:		Pipe Discharge Size:	
Casing Size:		Depth Well:	
		Plug Date:	
		Source:	
		Estimated Yield:	
		Depth Water:	

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

11/7/23 12:43 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Water Right Summary



[get image list](#)

WR File Number:

CP 01963

Subbasin:

CP

Cross Reference:

-

Primary Purpose:

MON MONITORING WELL

Primary Status:

PMT PERMIT

Total Acres:

Subfile:

-

Header:

-

Total Diversion:

0

Cause/Case:

-

Agent:

DEVON ENERGY

Contact:

DALE WOODALL

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/	Acres	Diversion	Consumptive
			1	2		To			
	745230	EXPL	2023-03-30	PMT	PRC	CP-1963 POD1	T	0	0

Current Points of Diversion

POD Number	Well Tag	Source	Q (NAD83 UTM in meters)							Other Location Desc
			64Q	16Q	4Sec	Tws	Rng	X	Y	
CP 01963 POD1	NA		4	3	4	17	22S 34E	642073	3584138	TW-1

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New Mexico Office of the State Engineer

Transaction Summary

EXPL Permit To Explore

Transaction Number: 745230**Transaction Desc:** CP-1963 POD1**File Date:** 03/27/2023**Primary Status:** PMT Permit**Secondary Status:** PRC Processed**Person Assigned:** *******Agent:** DEVON ENERGY**Contact:** DALE WOODALL

Events

	Date	Type	Description	Comment	Processed By
	03/27/2023	APP	Application Received	*	*****
	03/27/2023	TEC	Technical Report	*PLG PLN OPS CP-	*****
	03/27/2023	FTN	Finalize non-published Trans.		*****
	07/06/2023	QAT	Quality Assurance Completed	DATA	*****
	07/11/2023	QAT	Quality Assurance Completed	IMAGE	*****
	07/11/2023	ARW	WRAB Main File Rm Arch Sect	CP 01963 Archived	*****

Water Right Information

WR File Nbr	Acres	Diversion	Consumptive	Purpose of Use
CP 01963	0	0		MON MONITORING WELL

****Point of Diversion**CP 01963 POD1 642073 3584138 

Remarks

"A SOIL BORING TO DETERMINE DEPTH UP TO 55 FEET. TEMPORARY PVC WELL MATERIAL WILL BE PLACED TO TOTAL DEPTH AND SECURED AT SURFACE. TEMPORARY WELL WILL BE IN PLACE FOR MINIMUM OF 72 HOURS. IF GROUND WATER IS ENCOUNTERED THE BORING WILL BE

PLUGGED IMMEDIATELY USING AUGERS AS TREMIE TO LAND A SLURRY OF PORTLAND TYPE I/II NEAT CEMENT LESS THAN 6.0 GALLONS OF WATER PER 94 LBS. SACK. IF NO WATER IS ENCOUNTERED THEN DRILL CUTTINGS WILL BE USED TO (10) TEN FEET OF LAND SURFACE AND PLUGGED

USING HYDRATED BENTONITE."

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

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

Approval Code: A - Approved

Action Date: 03/30/2023

Log Due Date: 03/29/2024

State Engineer: Mike A. Hamman, P.

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11/7/23 12:43 PM









TRANSACTION
SUMMARY

Intermittent 5,291 feet



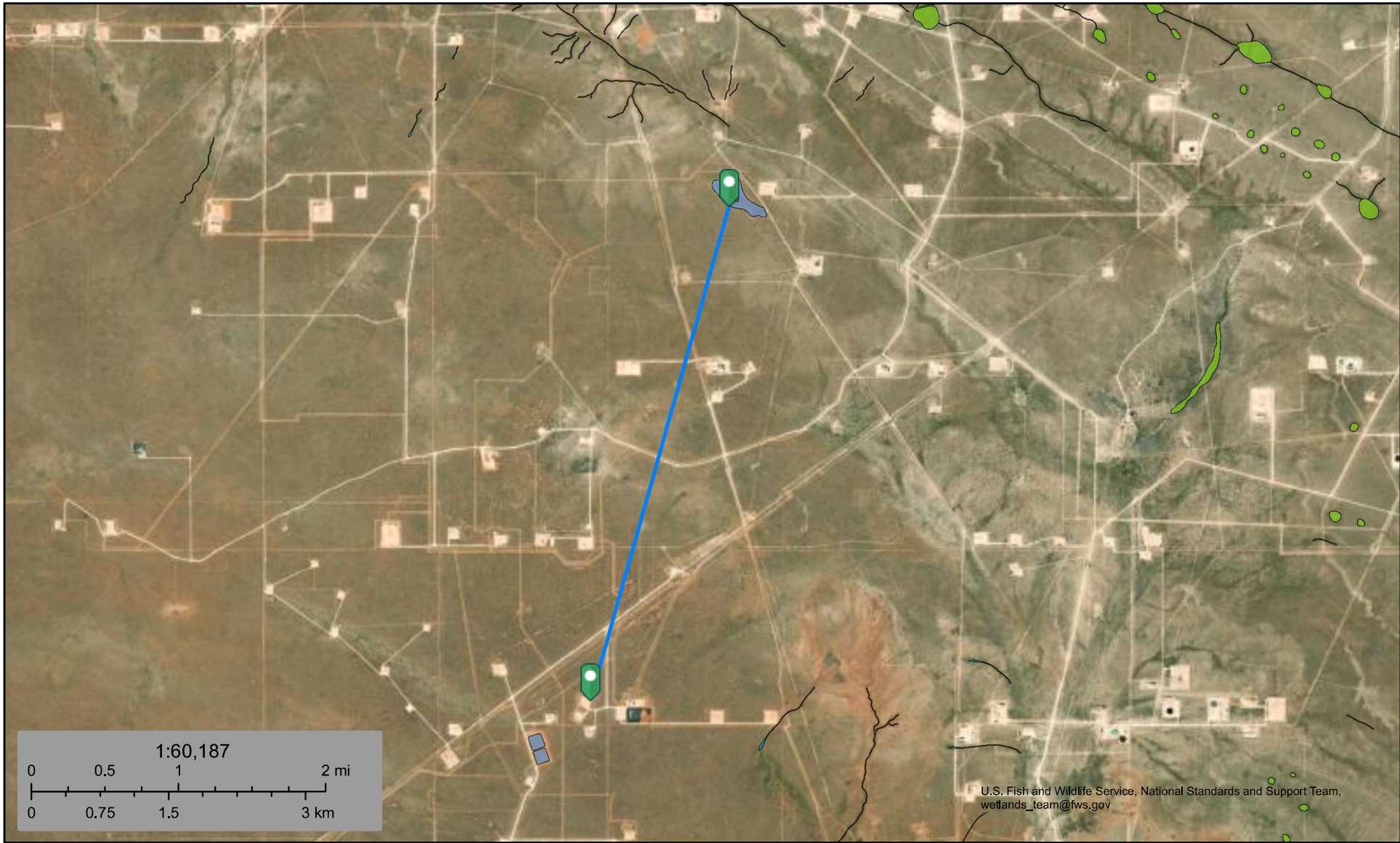
November 8, 2023

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.

Pond 15,522 feet



November 8, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond



- Lake
- Other
- Riverine

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

Gaucha Unit 6H CTB

Nearest Residence 81,187 feet (15.4 miles)

Legend

-  Gaucha Unit 6H CTB
-  Nearest Residence 81,187 feet (15.4 miles)

Gaucha Unit 6H CTB



Google Earth

6 mi





New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
CP	00865 POD1	2	2	3	20	22S	34E	641845	3583118

x

Driller License:	421	Driller Company:	GLENN'S WATER WELL SERVICE
-------------------------	-----	-------------------------	----------------------------

Driller Name:	GLENN, CLARK A. "CORKY" (LD)
----------------------	------------------------------

Drill Start Date:	08/22/1997	Drill Finish Date:	08/29/1997	Plug Date:	
Log File Date:	09/04/1997	PCW Rcv Date:	10/18/2013	Source:	Shallow
Pump Type:	SUBMER	Pipe Discharge Size:	2.875	Estimated Yield:	50 GPM
Casing Size:	6.63	Depth Well:	885 feet	Depth Water:	605 feet

x

Water Bearing Stratifications:	Top	Bottom	Description
	738	870	Sandstone/Gravel/Conglomerate

x

Casing Perforations:	Top	Bottom
	734	885

x

Meter Number:	800	Meter Make:	SEAMETRICS
Meter Serial Number:	062018004760	Meter Multiplier:	1.0000
Number of Dials:	9	Meter Type:	Diversion
Unit of Measure:	Barrels 42 gal.	Return Flow Percent:	
Usage Multiplier:		Reading Frequency:	Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
08/27/1999	1999	12170	A	fm		0
09/27/1999	1999	18665	A	fm		1.993
07/10/2000	2000	23573	A	mb	Initial reading Trn# 184947	0
09/01/2000	2000	792	A	mb	Initial reading Trn# 189706	0
10/09/2000	2000	3703	A	mb	Final reading Trn# 189706	0.893
11/02/2000	2000	33323	A	mb	Final reading Trn# 184947	2.992
07/23/2001	2001	35004	A	jw		9.606
08/14/2001	2001	35550	A	jw		0.168
09/16/2003	2004	44365	A	RPT		0
02/13/2004	2004	54105	A	RPT		2.989
05/28/2013	2013	301812	A	RPT	Initial reading	0
10/07/2013	2013	494174	A	RPT		24.794
11/11/2013	2013	627789	A	RPT		17.222
01/01/2014	2014	775387	A	ap		1902.439
04/01/2014	2014	1150295	A	ap		4832.312
10/01/2014	2014	1395310	A	ap		3158.078
01/01/2015	2015	2252908	A	ap		11053.861
03/31/2015	2015	2496573	A	ap		3140.678
06/01/2015	2015	2602349	A	ap		1363.381
06/30/2015	2015	2632913	A	ap		393.949

07/28/2015	2015	2657713	A	ap	319.655
08/31/2015	2015	2675935	A	ap	234.869
09/30/2015	2015	2685784	A	ap	126.947
10/30/2015	2015	2777793	A	ap	1185.934
11/30/2015	2015	2813732	A	ap	463.230
04/30/2016	2015	2902402	A	ap	1142.897
06/01/2016	2016	2949111	A	ap	602.048
07/30/2016	2016	3039470	A	ap	1164.667
09/01/2016	2016	3112223	A	ap	937.737
09/30/2016	2016	3233850	A	ap	1567.690
10/31/2016	2016	3310726	A	ap	990.880
12/01/2016	2016	3400370	A	ap	1155.451
12/31/2016	2016	3504124	A	ap	1337.319
02/01/2017	2017	3505049	A	ap	11.923
03/02/2017	2017	3549664	A	ap	575.057
03/31/2017	2017	3670149	A	ap	1552.971
05/01/2017	2017	3799022	A	ap	1661.086
05/31/2017	2017	3857500	A	ap	753.742
07/31/2017	2017	3902575	A	ap	580.986
10/31/2017	2017	4063882	A	ap	2079.139
11/30/2017	2017	4191565	A	ap	1645.748
12/30/2017	2017	4326964	A	ap	1745.202
01/30/2018	2018	4423832	A	ap	1248.563
02/28/2018	2018	4511456	A	ap	1129.414
03/30/2018	2018	4547266	A	ap	461.567
04/30/2018	2018	4658071	A	ap	1428.202
06/01/2018	2018	4766177	A	ap	1393.414
06/29/2018	2018	4790998	A	ap	319.926
07/31/2018	2018	4790998	A	ap	0
08/13/2018	2018	4791140	A	ap	1.830
08/13/2018	2018	0	A	ap	0
08/30/2018	2018	73947	A	ap	953.127
09/30/2018	2018	201617	A	ap	1645.580
11/30/2018	2018	443361	A	ap	3115.917

**YTD Meter Amounts:		
Year	Amount	
1999	1.993	
2000	3.885	
2001	9.774	
2004	2.989	
2013	42.016	
2014	9892.829	
2015	19425.401	
2016	7755.792	
2017	10605.854	
2018	11697.540	
2019	0	
2020	0	

Meter Number: 806

Meter Make: MASTER

Meter Serial Number: 1746627

Meter Multiplier: 100.0000

Number of Dials: 6

Meter Type: Diversion

Unit of Measure: Gallons

Return Flow Percent:

Usage Multiplier:

Reading Frequency:

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
01/01/1999	1999	12165	A	fm		0
01/15/1999	1999	21665	A	fm		2.915

**YTD Meter Amounts:	Year	Amount
	1999	2.915

Meter Number: 807

Meter Make: SEAMETRICS

Meter Serial Number: 10 200 191

Meter Multiplier: 1.0000

Number of Dials: 8

Meter Type: Diversion

Unit of Measure: Barrels 42 gal.

Return Flow Percent:

Usage Multiplier:

Reading Frequency: Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
11/14/1999	1999	19858	A	fm		0
12/14/1999	1999	21411	A	fm		0.477
01/02/2019	2018	556195	A	RPT		0
02/01/2019	2019	604855	A	RPT		6.272
08/01/2019	2019	949138	A	RPT		44.376
09/01/2019	2019	1061141	A	RPT		14.436
09/30/2019	2019	1161966	A	RPT		12.996
10/31/2019	2019	1259879	A	RPT		12.620
11/30/2019	2019	1325382	A	RPT		8.443
12/31/2019	2019	1325382	A	RPT		0
02/01/2020	2020	1369756	A	RPT		5.720
03/01/2020	2020	1488098	A	RPT		15.253
04/01/2020	2020	1488098	A	RPT		0
05/01/2020	2020	1488098	A	RPT		0
06/01/2020	2020	1488098	A	RPT		0
08/01/2020	2020	0	A	RPT		0
08/01/2020	2020	1488098	A	RPT		0
09/01/2020	2020	154	A	RPT		0.020
10/01/2020	2020	154	A	RPT		0
11/01/2020	2020	26213	A	WEB		3.359 X
12/01/2020	2020	144137	A	WEB		15.200 X
01/01/2021	2020	168842	A	WEB		3.184 X
01/31/2021	2021	204704	A	ad		0
02/24/2021	2021	250418	A	ad		5.892
02/24/2021	2021	0	A	ad		0
02/28/2021	2021	479	A	ad		0.062
03/31/2021	2021	77494	A	ad		9.927
04/30/2021	2021	151907	A	ad		9.591
05/31/2021	2021	260155	A	ad		13.952

06/30/2021	2021	350984	A	ad	11.707
07/31/2021	2021	390794	A	ad	5.131
08/31/2021	2021	465926	A	ad	9.684
09/30/2021	2021	584055	A	ad	15.226
10/31/2021	2021	664994	A	ad	10.432
11/30/2021	2021	756770	A	ad	11.829
12/21/2021	2021	835364	A	ad	10.130
01/31/2022	2022	933170	A	ad	12.607
02/28/2022	2022	933713	A	ad	0.070
03/31/2022	2022	933713	A	ad	0
04/30/2022	2022	1158640	A	ad	28.992
06/01/2022	2022	1158640	A	ad	0
07/02/2022	2022	1158640	A	ad	0
08/01/2022	2022	1448406	A	ad	37.349
09/01/2022	2022	1448406	A	ad	0
10/01/2022	2022	1458546	A	WEB	1.307 X
11/01/2022	2022	1615601	A	WEB	20.243 X
12/01/2022	2022	1615601	A	WEB	0 X
01/01/2023	2022	1705850	A	WEB	11.632 X
02/01/2023	2023	1705853	A	WEB	0 X
03/01/2023	2023	1778742	A	WEB	9.395 X
04/01/2023	2023	1811954	A	WEB	4.281 X
05/01/2023	2023	1811957	A	WEB	0 X
06/01/2023	2023	1906561	A	WEB	12.194 X
07/01/2023	2023	1954212	A	WEB	6.142 X
08/01/2023	2023	1959853	A	WEB	0.727 X
09/01/2023	2023	2097256	A	WEB	17.710 X
10/01/2023	2023	2097256	A	WEB	0 X

**YTD Meter Amounts:	Year	Amount
	1999	0.477
	2018	0
	2019	99.143
	2020	42.736
	2021	113.563
	2022	112.200
	2023	50.449

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11/7/23 1:14 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer


















Water Right Summary



[get image list](#)


WR File Number: CP 00865 **Subbasin:** CP **Cross Reference:** -
Primary Purpose: COM COMMERCIAL
Primary Status: PMT PERMIT
Total Acres: 0 **Subfile:** - **Header:** -
Total Diversion: 100 **Cause/Case:** -
Owner: MERCHANT LIVESTOCK CO
Contact: CORKY GLENN'S WATER WELL SERVICE

Documents on File

	Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
				1	2					
 get images	540290	APPRO	2013-05-08	PMT	MTR	CP-865	T	0	100	100
 get images	476449	72121	2007-01-26	EXP	EXP	CP 00865	T		1	
 get images	476438	COWNF	2005-06-16	CHG	PRC	CP 00865	T		0	
 get images	476397	72121	2005-04-19	EXP	EXP	CP 00865	T		3	
 get images	476395	72121	2004-04-27	EXP	EXP	CP 00865	T		3	
 get images	476393	72121	2003-09-18	EXP	EXP	CP 00865	T		3	
 get images	476392	72121	2001-07-25	EXP	EXP	CP 00865	T		3	
 get images	476388	72121	2000-09-01	EXP	EXP	CP 00865	T		3	
 get images	476387	72121	2000-07-10	EXP	EXP	CP 00865	T		3	
 get images	476386	72121	1999-12-15	EXP	EXP	CP 00865	T		3	
 get images	476369	72121	1999-09-27	EXP	EXP	CP 00865	T		3	
 get images	476368	72121	1999-01-15	EXP	EXP	CP 00865	T		3	
 get images	476360	72121	1998-11-05	EXP	EXP	CP 00865	T		3	
 get images	476357	72121	1998-10-09	EXP	EXP	CP 00865	T		3	
 get images	476356	72121	1998-08-07	EXP	EXP	CP 00865	T		3	
 get images	476354	72121	1998-07-13	EXP	EXP	CP 00865	T		3	
 get images	476353	72121	1997-08-11	PMT	LOG	CP 00865	T		3	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
CP 00865 POD1		Shallow	2	2	3	20	22S	34E		641845	3583118	

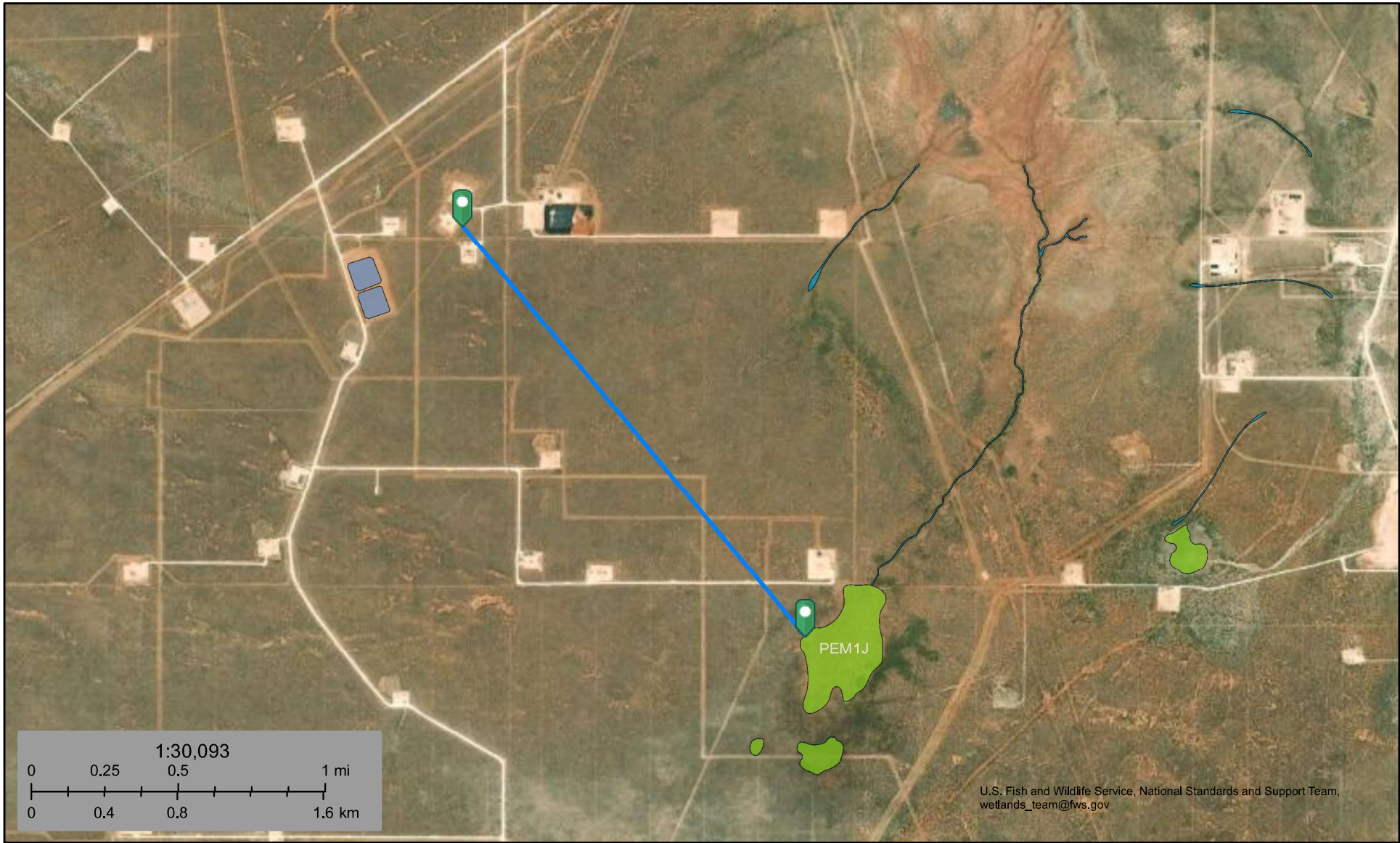
Priority Summary

Priority	Status	Acres	Diversion	Pod Number
08/28/2012	PMT	0	100	CP 00865 POD1

Place of Use









Q	Q	256	64	Q16	Q4	Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
									0	100	100	COM		PMT	NO PLACE OF USE GIVEN

Wetland 8,092 feet

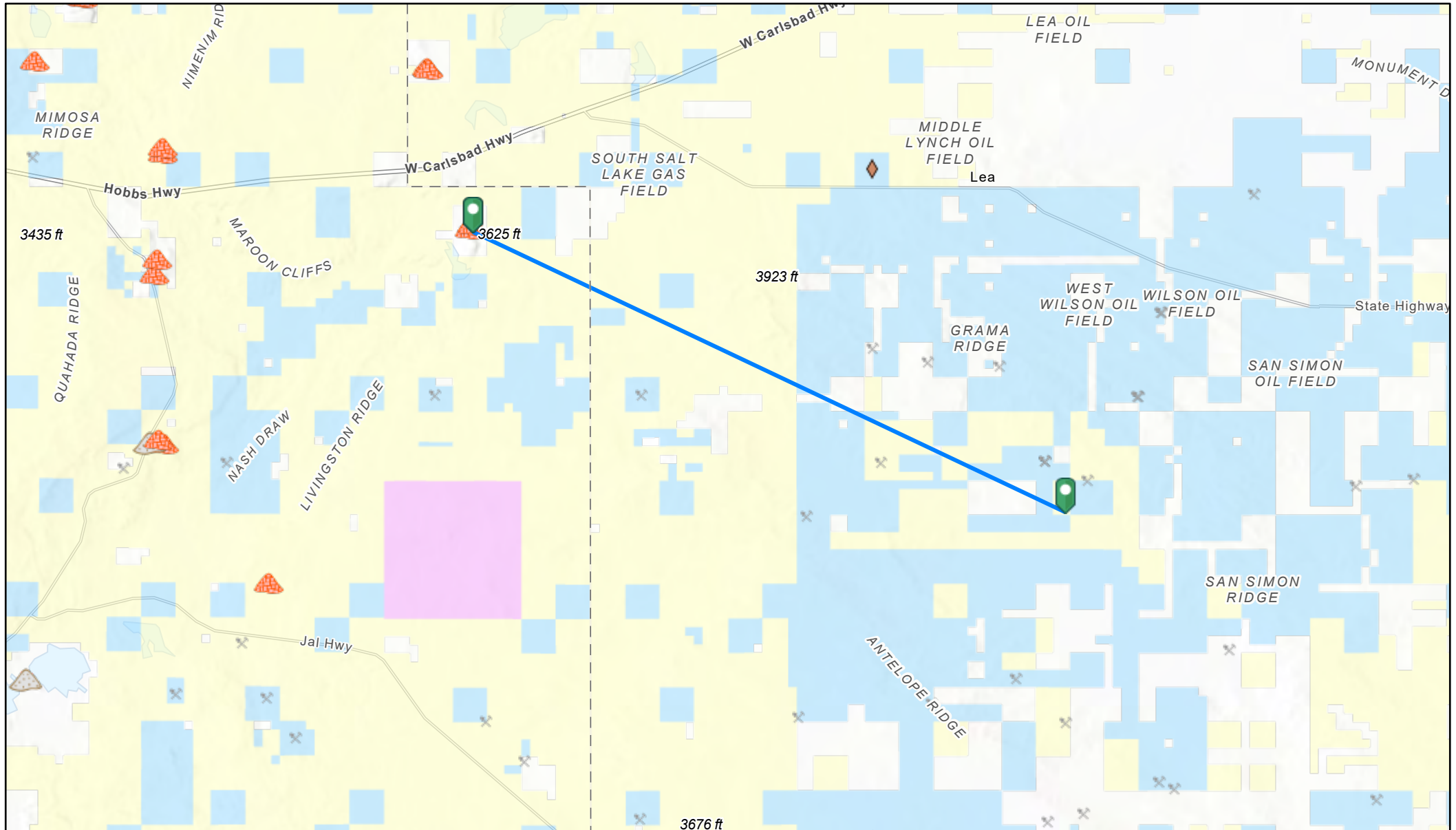


November 8, 2023

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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2/21/2024, 11:21:25 AM

Registered Mines

Aggregate, Stone etc.

Aggregate, Stone etc.

Aggregate, Stone etc.

Industrial Minerals (Other)

Potash

Salt

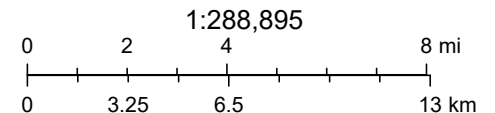
Land Ownership

BLM

DOE

P

S








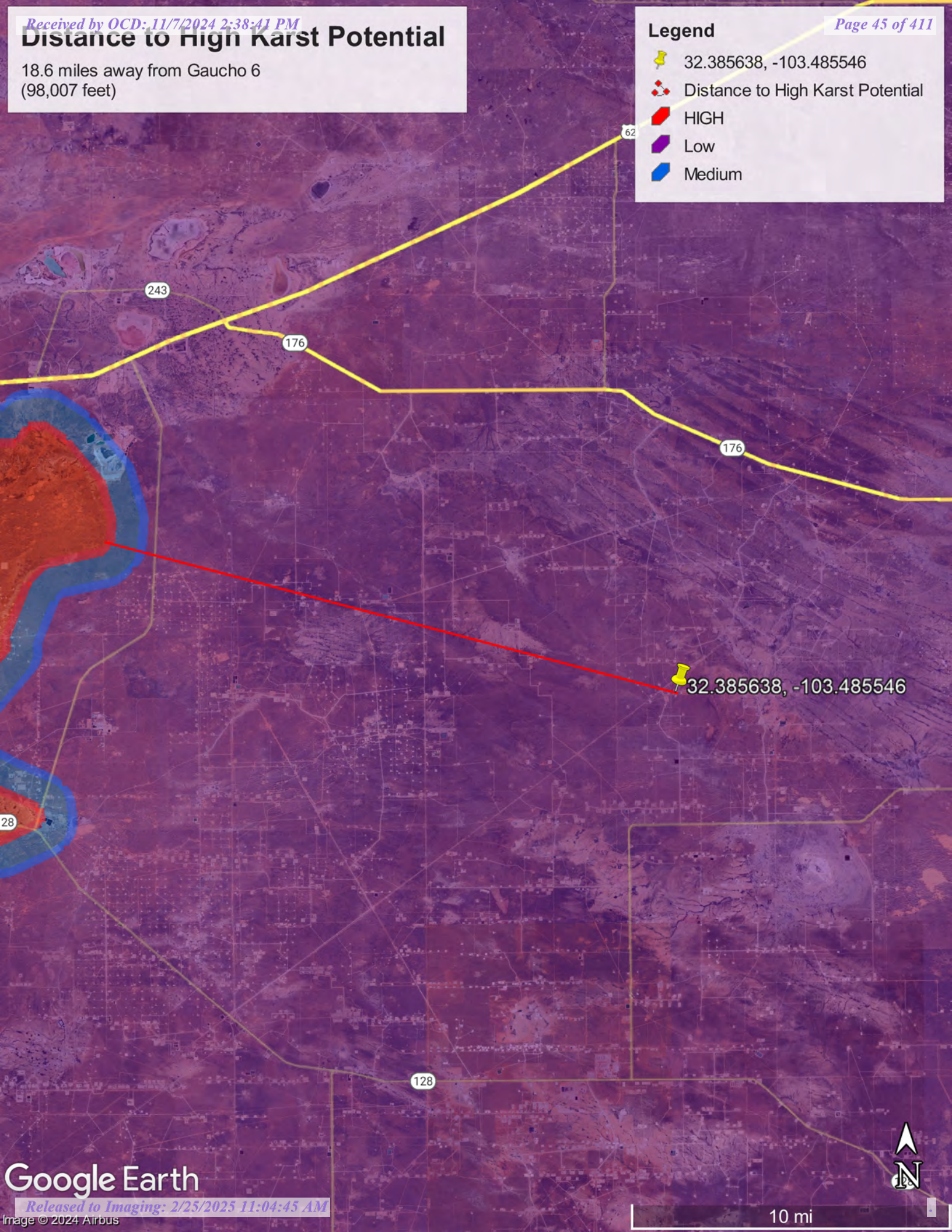
Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, METI/ NASA, USGS, EPA, NPS, USDA, USFWS, U.S. BLM, Esri, NASA, NGA, USGS

Distance to High Karst Potential

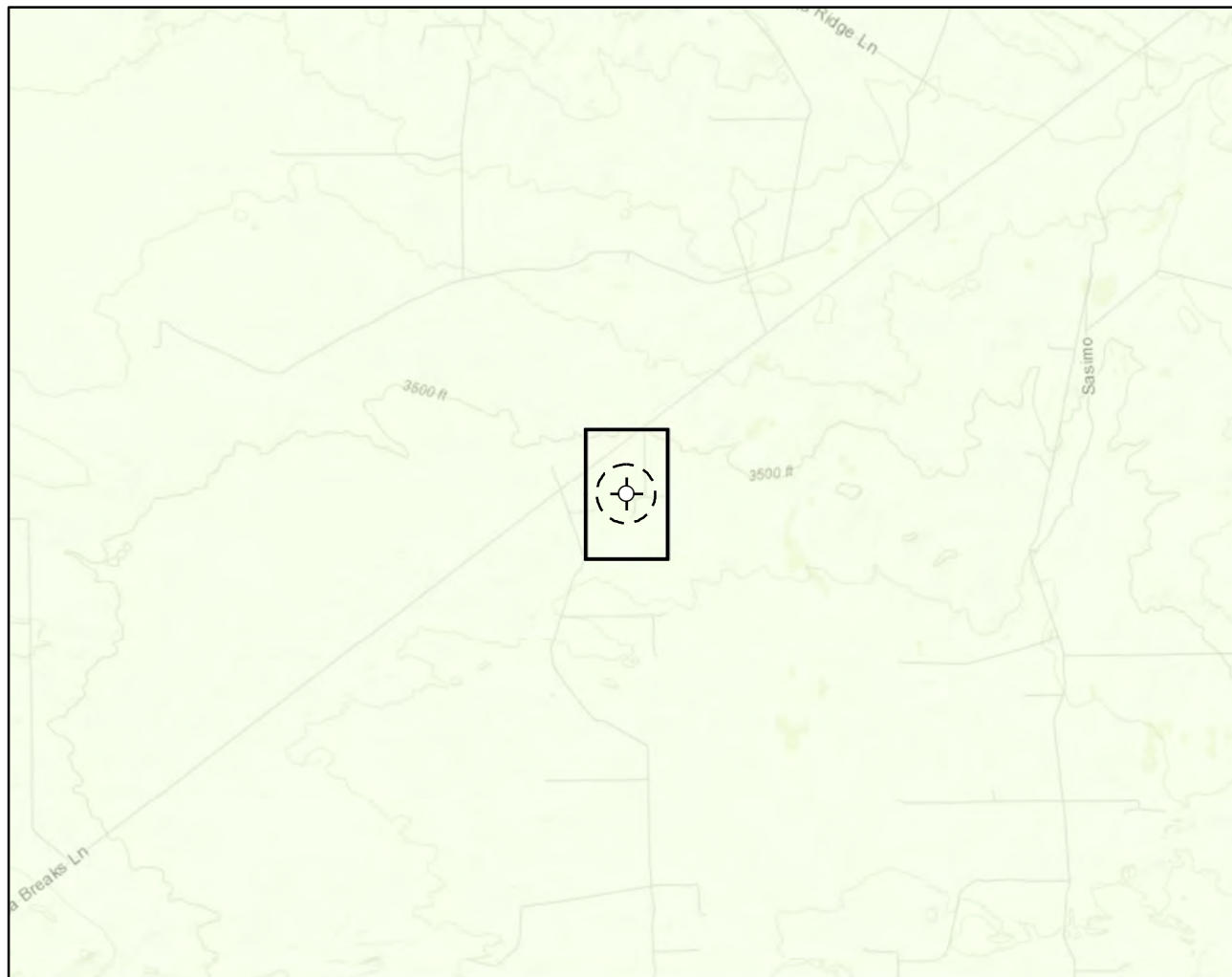
18.6 miles away from Gaucho 6
(98,007 feet)

Legend

-  32.385638, -103.485546
-  Distance to High Karst Potential
-  HIGH
-  Low
-  Medium



Document Path: G:\Projects\US PROJECTS\Devon Energy Corporation\2022\22E-0101 - Gaucho Unit 6H CTB\Schematic Gaucho Unit 6H CTB (22E-0101).mxd



Karst Potential

- Critical
- High
- Medium
- Low

- Site Location
- Site Buffer (1,000 ft.)

Overview Map

0 0.25 0.5 1 mi



Detail Map

0 150 300 600 ft.



Map Center:
Lat/Long: 32.386319, -103.485653

NAD 1983 UTM Zone 13N
Date: Apr 12/22



Karst Potential Schematic Gaucho Unit 6H CTB

FIGURE:

X





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 2021; Overview Map: ESRI World Topographic. Karst potential data sourced from Roswell Field Office, Bureau of Land Management, 2020 or United States Department of the Interior, Bureau of Land Management. (2018). Karst Potential.

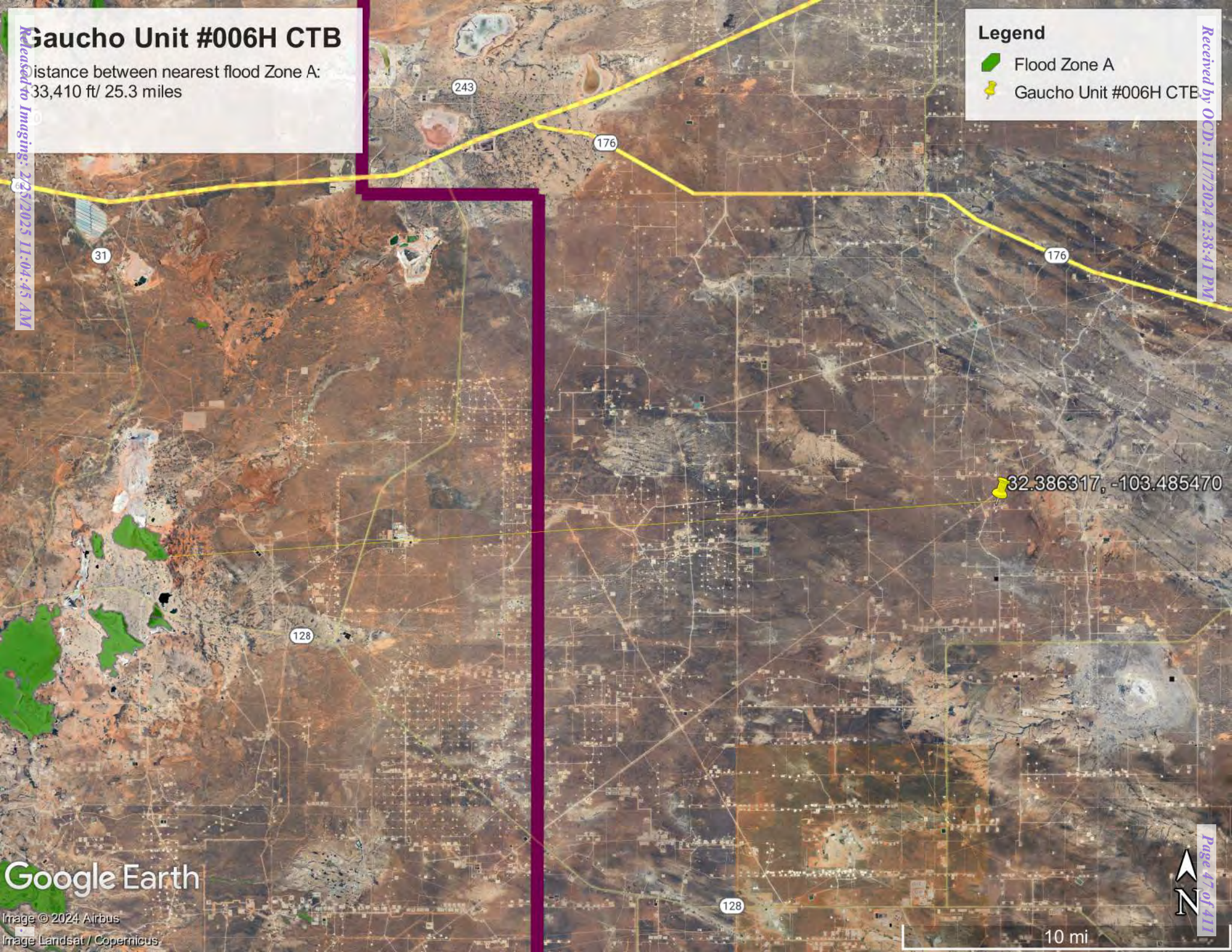
VERSATILITY. EXPERTISE.

Gaucha Unit #006H CTB
Distance between nearest flood Zone A:
33,410 ft/ 25.3 miles

Legend

-  Flood Zone A
-  Gaucha Unit #006H CTE

Received by OCD: 11/7/2024 2:38:41 PM



Google Earth

Image © 2024 Airbus
Image Landsat / Copernicus

Page 47 of 411

10 mi

National Flood Hazard Layer FIRMette



3°29'27"W 32°23'23"N



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

1:6,000

103°28'49"W 32°22'53"N

Basemap Imagery Source: USGS National Map 2023

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
		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 X
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 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
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.

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 11/7/2023 at 8:30 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.



United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

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

Custom Soil Resource Report for **Lea County, New Mexico**



November 7, 2023

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Custom Soil Resource Report
Soil Map



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 20, Sep 6, 2023

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
KM	Kermit soils and Dune land, 0 to 12 percent slopes	14.8	88.7%
PU	Pyote and Maljamar fine sands	1.9	11.3%
Totals for Area of Interest		16.7	100.0%

Map Unit Descriptions

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

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

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

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

Custom Soil Resource Report

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

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

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

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

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

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

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

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

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

Custom Soil Resource Report

Lea County, New Mexico

KM—Kermit soils and Dune land, 0 to 12 percent slopes

Map Unit Setting

National map unit symbol: dmpx
Elevation: 3,000 to 4,400 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 46 percent
Dune land: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit**Setting**

Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave, convex, linear
Across-slope shape: Convex
Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand
C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 5 to 12 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 3 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 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R070BC022NM - Sandhills
Hydric soil rating: No

Custom Soil Resource Report

Description of Dune Land**Setting**

Landform: Dunes

Landform position (two-dimensional): Shoulder, backslope, footslope

Landform position (three-dimensional): Side slope

Down-slope shape: Concave, convex, linear

Across-slope shape: Convex

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 6 inches: fine sand

C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8

Hydrologic Soil Group: A

Hydric soil rating: No

Minor Components**Palomas**

Percent of map unit: 3 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Pyote

Percent of map unit: 3 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Wink

Percent of map unit: 2 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Maljamar

Percent of map unit: 2 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

PU—Pyote and Maljamar fine sands**Map Unit Setting**

National map unit symbol: dmqq

Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 12 inches

Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Custom Soil Resource Report

Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent

Maljamar and similar soils: 44 percent

Minor components: 10 percent

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

Description of Pyote**Setting**

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand

Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Negligible

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

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Gypsum, maximum content: 1 percent

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

Sodium adsorption ratio, maximum: 2.0

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

Interpretive groups

Land capability classification (irrigated): 6e

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: A

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Description of Maljamar**Setting**

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand

Bt - 24 to 50 inches: sandy clay loam

Bkm - 50 to 60 inches: cemented material

Custom Soil Resource Report

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

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

Minor Components

Kermit

Percent of map unit: 10 percent
Ecological site: R070BC022NM - Sandhills
Hydric soil rating: No



Ecological site R070BC022NM

Sandhills

Accessed: 11/08/2023

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.

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

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

Table 2. Representative physiographic features

Landforms	(1) Plain (2) Hill (3) Dune
Flooding frequency	None
Ponding frequency	None
Elevation	2,842–4,500 ft
Slope	5–35%
Aspect	Aspect is not a significant factor

Climatic features

The climate of the area is “semi-arid continental”. The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common. Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity – short duration thunderstorms. Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes. The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer. The average frost-free season is 180 to 220 days. The last killing frost is in late March or early April, and the first killing frost is in late October or early November. Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of this site. Because of the texture of this soil, most rainfall is effective. Strong winds blow from the west and southwest from January through June which accelerates soil drying at a time for cool season

plant growth.

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

Table 3. Representative climatic features

Frost-free period (average)	220 days
Freeze-free period (average)	240 days
Precipitation total (average)	13 in

Influencing water features

This site is not influenced by wetlands or streams.

Soil features

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

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

Characteristic Soils Are:

Kermit

Aguena

Table 4. Representative soil features

Surface texture	(1) Fine sand (2) Loamy fine sand (3) Loamy sand
Family particle size	(1) Sandy
Drainage class	Well drained to excessively drained
Permeability class	Rapid to very rapid
Soil depth	60–72 in
Surface fragment cover ≤3"	0–5%
Surface fragment cover >3"	0%
Available water capacity (0–40in)	3–9 in
Calcium carbonate equivalent (0–40in)	0–7%
Electrical conductivity (0–40in)	0–2 mmhos/cm
Sodium adsorption ratio (0–40in)	0–1
Soil reaction (1:1 water) (0–40in)	7.4–8.4
Subsurface fragment volume ≤3" (Depth not specified)	0–5%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

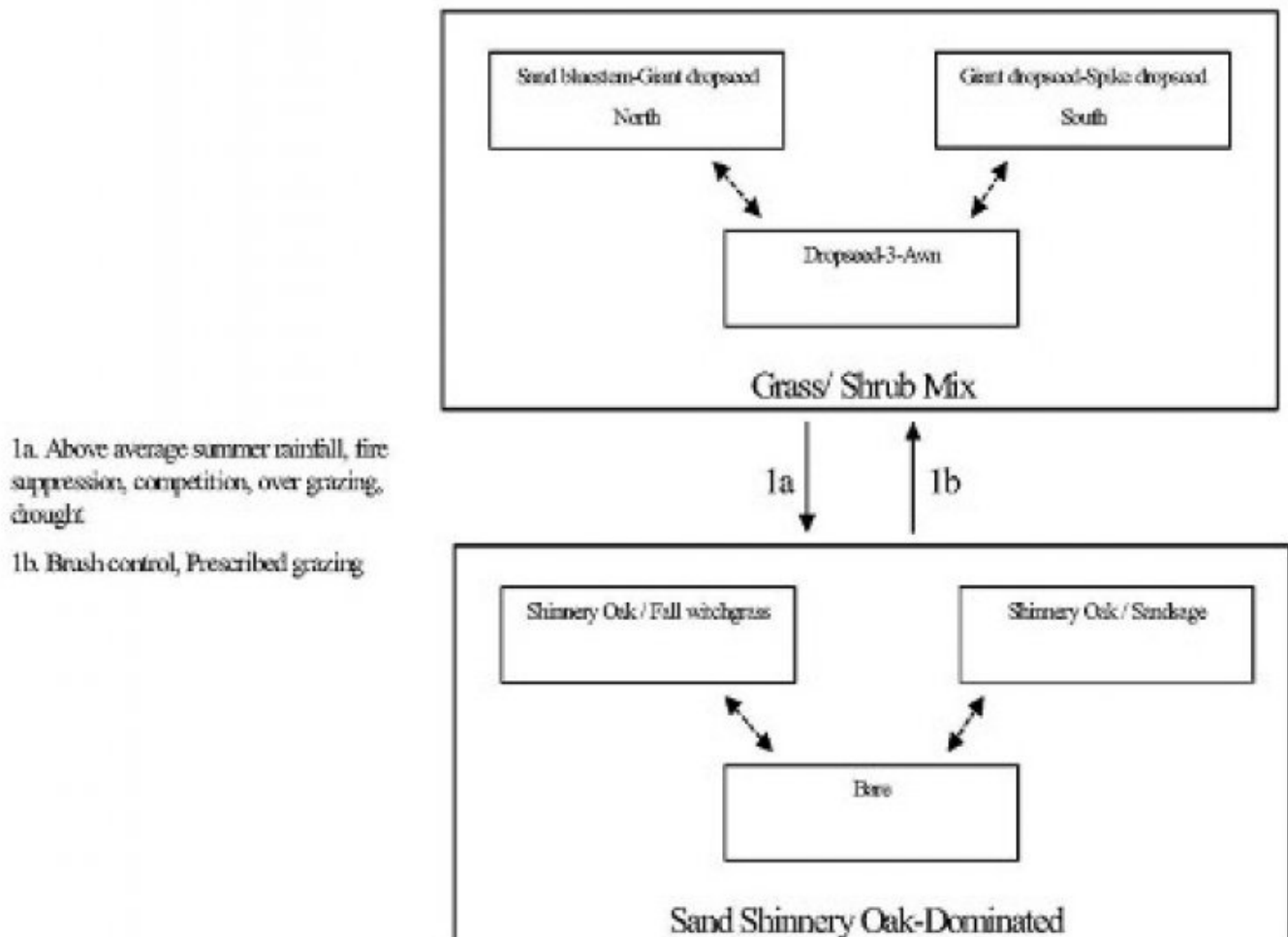
Overview:

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

State and transition model

Plant Communities and Transitional Pathways (diagram)

MLRA-42, SD-3, Sandhills



State 1
Grass/Shrub Mix

Community 1.1
Grass/Shrub Mix

Grass/Shrub Mix: The historic plant community in the northern part of the resource area (SD-3) is dominated by sand bluestem and giant dropseed, with Havard panicum as a sub-dominant. Primary grass dominance may gradually shift moving south across the resource area to a community dominated by giant dropseed and spike dropseed, with mesa dropseed as the sub-dominant grass species. Throughout the resource area sand shinnery oak and soapweed yucca are the dominant shrubs with sand sagebrush as the sub-dominant. As retrogression within this state occurs, plants such as sand bluestem, giant dropseed, Havard panicum, plains bristlegrass, sand paspalum, and fourwing saltbush decrease. This results in an increase in spike dropseed, sand dropseed, mesa dropseed, threeawns sand shinnery oak, and sand sagebrush. Continued loss of grass cover may result in a transition to a sand shinnery oak dominated state. Diagnosis: Sand bluestem or giant dropseed are dominant or present in substantial amounts. Spike dropseed, sand dropseed or mesa dropseed may be dominant in some instances. Grass cover is variable, shifting sands and large irregular dunes produce considerable variation in the spatial distribution and composition of the plant community. Grass cover is not continuous, but is fairly uniform across the more stable areas. Large natural bare areas or blowouts are a common feature on the less stable portions of the Sandhills site.

Table 5. Annual production by plant type

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

Table 6. Ground cover

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

Figure 5. Plant community growth curve (percent production by month).
NM2822, R042XC022NM Sandhills HCPC. R042XC022NM Sandhills HCPC
warm season plant community.

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

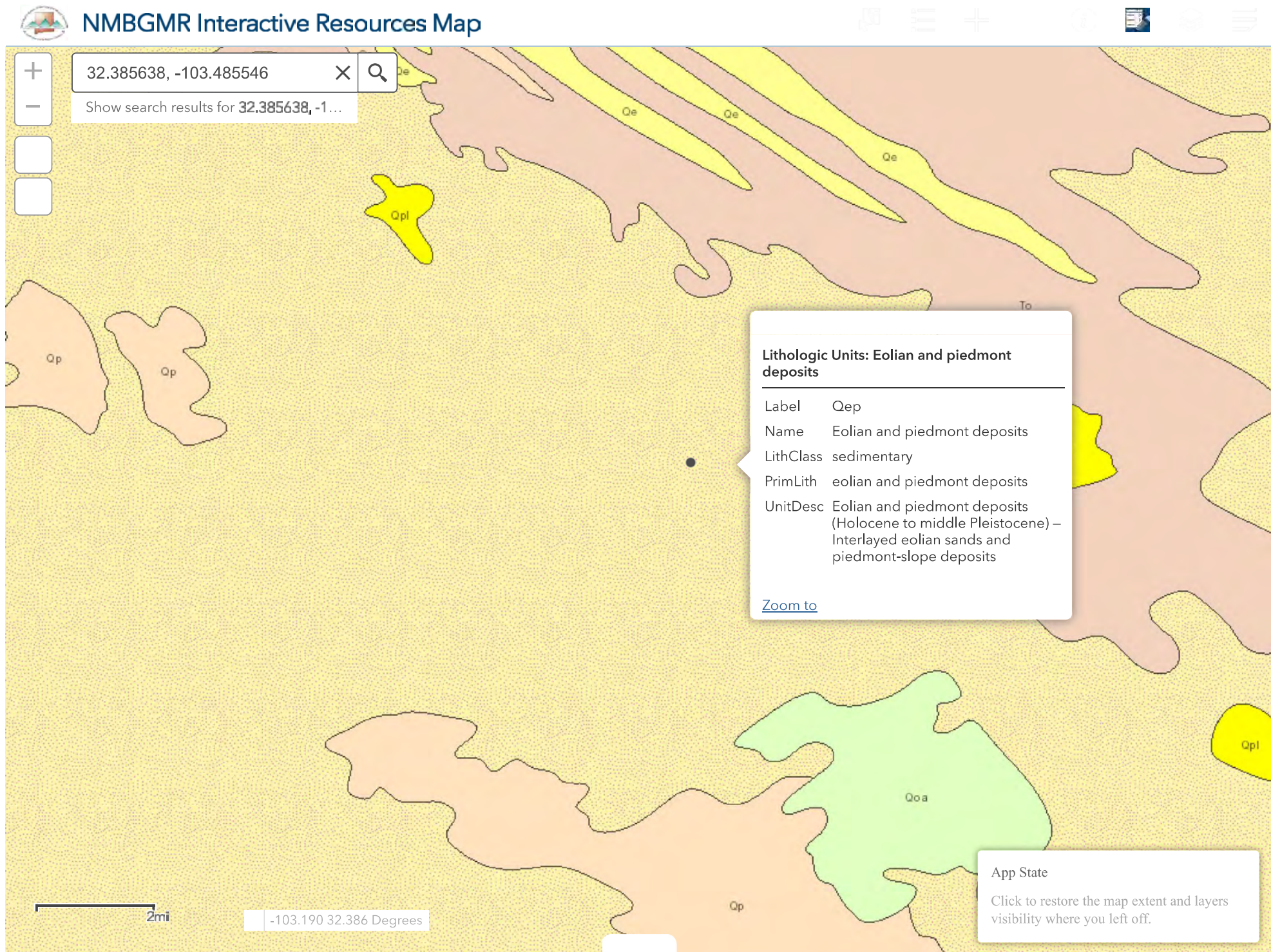
State 2**Sand Shinnery Oak-Dominated****Community 2.1****Sand Shinnery Oak-Dominated**

Additional States: Sand Shinnery Oak -Dominated: Sand shinnery oak is the dominant species and in dense stands may reduce forage production by as much as 90 percent.¹ It often forms a mosaic of dense thickets interspersed with occasional motts of taller oaks, large areas of bare ground, and concentrations of sand sagebrush. Sand shinnery oak is well suited to deep sandy soils. The height and cover of oak decreases as sand depth decreases or clay content increases. The aggressive nature of fall witchgrass and continued loss of more palatable grasses and threeawn species may result in a sand shinnery oak-fall witchgrass community. Burning may result in a community with very little grass or sand shinnery oak (bare). Sand shinnery oak usually recovers due to its ability to sprout aggressively following fire. Diagnosis: Sand shinnery oak is the dominant species. Grass cover is sparse and patchy. Shrub cover is high. Blowouts and bare areas are common, however, high shrub cover mediates erosion. Transition to Sand Shinnery Oak Dominated (1a): Climate may play a role in facilitating the spread sand shinnery oak. It is best adapted to those areas that receive an average of 16 inches of annual rainfall; it may therefore gain a competitive advantage during cycles of above average precipitation. Sand shinnery oak spreads mainly by elongation of rhizomes, but in some instances will reproduce by seed. The establishment and survival of seedlings is limited to those years with abundant rainfall during the months of July and August. If fire historically played a part in suppressing the density and distribution of shrubs in desert grasslands, then fire suppression may facilitate a shift to shrub dominance.² Competition for resources between grasses and shrubs may be a factor in increased densities of sand shinnery oak. 1 Sand shinnery oak has an extensive system of underground roots and stems that can uptake and store water for growth during drier periods, allowing it to increase, at times when grasses decrease. Evidence of competitive suppression of grasses is indicated by increases in herbaceous vegetation following chemical control of sand shinnery oak.¹ However, this increase may in part be due to a flush of nutrients made available from the decomposing biomass of woody roots and stems. Loss of grass cover due to overgrazing or drought may give a competitive advantage to sand shinnery oak. Key indicators of approach to transition: * A decrease in the tall grass species and the associated increase in threeawns may be indicative of the initial stage of transition to a shrub-dominated state. * Increased cover of sand shinnery oak. Transition back to Grass/Shrub Mix (1b) Chemical brush control is an effective means of controlling sand shinnery oak and sand sagebrush. Where large areas of chemical control are planned, increased erosion and the effect on loss of wildlife habitat should be considered. Prescribed grazing will help ensure an adequate deferment period to allow grass recovery and subsequent proper forage utilization. There have been studies that suggest long term browsing by goats can reduce sand shinnery oak, altering production in favor of grasses.³

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass/Grasslike					
1				195–293	
	sand bluestem	ANHA	<i>Andropogon hallii</i>	195–293	–
	Havard's panicgrass	PAHA2	<i>Panicum havardii</i>	195–293	–
	giant dropseed	SPGI	<i>Sporobolus giganteus</i>	195–293	–
2				146–195	
	spike dropseed	SPCO4	<i>Sporobolus contractus</i>	146–195	–
	sand dropseed	SPCR	<i>Sporobolus cryptandrus</i>	146–195	–
	mesa dropseed	SPFL2	<i>Sporobolus flexuosus</i>	146–195	–
3				49–98	
	thin paspalum	PASE5	<i>Paspalum setaceum</i>	49–98	–
	plains bristlegrass	SEVU2	<i>Setaria vulpiseta</i>	49–98	–
4				20–40	



APPENDIX B – Daily Field Reports



Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	10/26/2023
Site Location Name:	Gaucha Unit 006H	Report Run Date:	10/27/2023 1:59 AM
Client Contact Name:	Dale Woodall	API #:	30-025-34789
Client Contact Phone #:	405-318-4697		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	10/26/2023 10:20 AM
Departed Site	10/26/2023 5:16 PM

Field Notes

- 10:38** Completed JSA on arrival. On site to delineate/characterize a recent release and a release from 2019.
- 11:53** Mapped/marked borehole locations and swept with magnetic locator prior to ground disturbance.
- 17:11** Advanced BH23-01 through BH23-10 to 0 and 2 feet bgs to start horizontal and vertical delineation. Extended BH23-03 to 4 feet bgs.
- 17:14** Will need to step out BH23-02, BH23-04, BH23-07, and BH23-08 for horizontal delineation.

Next Steps & Recommendations

- 1 Continue delineation.

Daily Site Visit Report



Site Photos

Viewing Direction: Southwest



Northeast of tank battery facing southwest.

Viewing Direction: Southeast



West of tank battery facing southeast along fence. Advanced BH23-01 immediately off west edge of staining.

Viewing Direction: Northeast

Southwest of tank battery facing northeast.
Advanced BH23-02 southwest of fence.

Viewing Direction: Southeast

Southwest of containment facing southeast.
Advanced BH23-03 along fence.



Daily Site Visit Report

Viewing Direction: East



West of tank battery facing east. Advanced BH23-04 northeast of steel flow lines.

Viewing Direction: Northeast



Southwest of tank battery facing northeast. Advanced BH23-07 southwest of fence.

Viewing Direction: Northwest



Southwest of tank battery facing northwest. Advanced BH23-05 immediately outside containment.

Viewing Direction: Southeast



Southwest of tank battery facing southeast. Advanced BH23-06 outside fence.



Daily Site Visit Report

Viewing Direction: Northeast



Southeast of tank battery facing northeast.
Advanced BH23-08 southwest of fence.

Viewing Direction: Northwest



Southwest of tank battery facing northwest.
Advanced BH23-09 along fence.

Viewing Direction: Southeast



Southeast of tank battery facing southeast.
Advanced BH23-10 immediately outside containment.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:


Signature



Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	11/2/2023
Site Location Name:	Gaucha Unit 006H	Report Run Date:	11/3/2023 10:31 AM
Client Contact Name:	Dale Woodall	API #:	30-025-34789
Client Contact Phone #:	405-318-4697		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	11/2/2023 9:20 AM
Departed Site	11/2/2023 4:15 PM

Field Notes

- 16:04** Completed safety paperwork and initial BH location upon arrival
- 16:07** Obtained BH23-42, 48, and 53 at 6, 8 and 10'. BH23-54 at 4'. Finally BH23-55 to 58 at 0 and 2'.
- 16:12** All samples were filed and screened for Cl. For Cl, all 10' deep samples are still high (above 3000 ppm). In addition, BH23-56 was only tasted at 0' with Cl above 1000 ppm. Only BH23-55, 57, and 58 were tested for TPH with values below 14 ppm.
- 16:15** All samples were jarred and sent to the lab with the exception of BH23-56 which was high in Cl at 0'. BH23-58 replaced BH23-56 as the clean horizontal edge of the release.

Next Steps & Recommendations

1

Daily Site Visit Report



Site Photos

Viewing Direction: North



BH23-52 at 10'. Sampled for 8 and 10'

Viewing Direction: North



BH23-48 at 10'

Viewing Direction: North



BH23-57 at 2 ft.

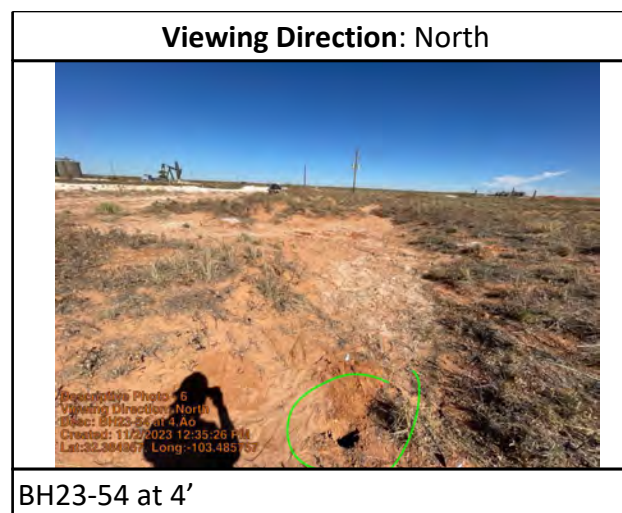
Viewing Direction: North



BH23-42 at 10'



Daily Site Visit Report



Daily Site Visit Report



Daily Site Visit Signature

Inspector: Deusavan Costa Filho

Signature:

A handwritten signature in black ink, consisting of a large loop followed by a series of smaller, connected loops.

Signature



Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	9/12/2024
Site Location Name:	Gaucha Unit 006H	Report Run Date:	9/13/2024 1:57 AM
Client Contact Name:	Jim Raley	API #:	30-025-34789
Client Contact Phone #:	575-748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	9/12/2024 9:30 AM
Departed Site	9/12/2024 4:00 PM

Field Notes

10:27 Arrived on site and signed JSA's at 9:30. Secondary magnetic sweep conducted.

10:06 Excavating on south end upon my arrival.

11:47 Composite Sampled area of BH23-07 and 06 at 11:30AM. (At 2')

19:55 Sampled 7 base samples and 3 wall samples with silver nitrate titration.

Next Steps & Recommendations

1

Daily Site Visit Report



Site Photos

Viewing Direction: East



Excavating to 4' on south end.

Viewing Direction: East



South end of spill at 4'

Viewing Direction: West



1ft depth, in the middle of the road.

Viewing Direction: East



4ft.



Daily Site Visit Report

Viewing Direction: East



4ft.

Viewing Direction: North



2ft.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Meghan Veliz

Signature:

A handwritten signature in black ink, appearing to read 'Meghan Veliz', written over a thin horizontal line. Below the line, the word 'Signature' is printed in a small font.



Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	9/17/2024
Site Location Name:	Gaucha Unit 006H	Report Run Date:	10/1/2024 3:57 PM
Client Contact Name:	Jim Raley	API #:	30-025-34789
Client Contact Phone #:	575-748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	9/17/2024 8:35 AM
Departed Site	9/18/2024 3:35 PM

Field Notes

8:39 Arrived on site. Signed JSA's. Started collecting samples.

Next Steps & Recommendations

1

Daily Site Visit Report



Site Photos

Viewing Direction: Northwest



Sample area BS and WS -15

Viewing Direction: East



Sample area BS24- 1-14.

Viewing Direction: East



Sample area WS24-14.

Viewing Direction: North



Sample area WS24-01



Daily Site Visit Report

Viewing Direction: South



Sample area WS24-02

Viewing Direction: South



Sample area BS24-13

Viewing Direction: South



Sample area BS24-12

Viewing Direction: South



Sample area BS24-11



Daily Site Visit Report

Viewing Direction: South



Sample area BS24-10

Viewing Direction: South



Sample area BS24-09

Viewing Direction: South



Sample area BS24-08

Viewing Direction: South



Sample area BS24-07



Daily Site Visit Report

Viewing Direction: South



Sample area BS24-06

Viewing Direction: South



Sample area BS24-05

Viewing Direction: South



BS24-04

Viewing Direction: South



Sample area BS24-03



Daily Site Visit Report

Viewing Direction: South



Sample area BS24-02

Viewing Direction: South



Sample area BS24-01

Viewing Direction: South



Sample area BS and WS 24-16

Viewing Direction: South



Sample area BS and WS 24-17



Daily Site Visit Report

Viewing Direction: South



Sample area BS24-18 and -19 and WS24-18

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Meghan Veliz

Signature:

A handwritten signature in black ink, appearing to read 'Meghan Veliz', written over a horizontal line. Below the line, the word 'Signature' is printed in a small font.

APPENDIX C – Laboratory Data Reports and Chain of Custody Forms



*Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

November 09, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL:

FAX:

RE: Gaucho Unit 6H

OrderNo.: 2310D40

Dear Kent Stallings:

Eurofins Environment Testing South Central, LLC received 21 sample(s) on 10/28/2023 for the analyses presented in the following report.

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

Please do not hesitate to contact Eurofins Albuquerque 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".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2310D40

Date Reported: 11/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-01 0'

Project: Gaucho Unit 6H

Collection Date: 10/26/2023 12:00:00 PM

Lab ID: 2310D40-001

Matrix: SOIL

Received Date: 10/28/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/31/2023 1:07:31 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/31/2023 1:07:31 PM
Surr: DNOP	110	69-147		%Rec	1	10/31/2023 1:07:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/31/2023 7:52:02 PM
Surr: BFB	96.5	15-244		%Rec	1	10/31/2023 7:52:02 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	10/31/2023 7:52:02 PM
Toluene	ND	0.048		mg/Kg	1	10/31/2023 7:52:02 PM
Ethylbenzene	ND	0.048		mg/Kg	1	10/31/2023 7:52:02 PM
Xylenes, Total	ND	0.096		mg/Kg	1	10/31/2023 7:52:02 PM
Surr: 4-Bromofluorobenzene	103	39.1-146		%Rec	1	10/31/2023 7:52:02 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	320	60		mg/Kg	20	10/31/2023 8:03:24 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310D40

Date Reported: 11/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-01 2'

Project: Gaucho Unit 6H

Collection Date: 10/26/2023 12:05:00 PM

Lab ID: 2310D40-002

Matrix: SOIL

Received Date: 10/28/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/31/2023 1:40:05 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/31/2023 1:40:05 PM
Surr: DNOP	115	69-147		%Rec	1	10/31/2023 1:40:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/31/2023 8:15:33 PM
Surr: BFB	98.2	15-244		%Rec	1	10/31/2023 8:15:33 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	10/31/2023 8:15:33 PM
Toluene	ND	0.048		mg/Kg	1	10/31/2023 8:15:33 PM
Ethylbenzene	ND	0.048		mg/Kg	1	10/31/2023 8:15:33 PM
Xylenes, Total	ND	0.096		mg/Kg	1	10/31/2023 8:15:33 PM
Surr: 4-Bromofluorobenzene	105	39.1-146		%Rec	1	10/31/2023 8:15:33 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	10/31/2023 8:15:49 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310D40

Date Reported: 11/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-02 0'

Project: Gaucho Unit 6H

Collection Date: 10/26/2023 12:10:00 PM

Lab ID: 2310D40-003

Matrix: SOIL

Received Date: 10/28/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	13	9.5		mg/Kg	1	10/31/2023 1:50:57 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/31/2023 1:50:57 PM
Surr: DNOP	114	69-147		%Rec	1	10/31/2023 1:50:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/31/2023 8:39:00 PM
Surr: BFB	94.7	15-244		%Rec	1	10/31/2023 8:39:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	10/31/2023 8:39:00 PM
Toluene	ND	0.050		mg/Kg	1	10/31/2023 8:39:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/31/2023 8:39:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	10/31/2023 8:39:00 PM
Surr: 4-Bromofluorobenzene	101	39.1-146		%Rec	1	10/31/2023 8:39:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	10/31/2023 8:28:13 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310D40

Date Reported: 11/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-02 2'

Project: Gaucho Unit 6H

Collection Date: 10/26/2023 12:15:00 PM

Lab ID: 2310D40-004

Matrix: SOIL

Received Date: 10/28/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	10/31/2023 2:01:49 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/31/2023 2:01:49 PM
Surr: DNOP	111	69-147		%Rec	1	10/31/2023 2:01:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/31/2023 9:02:26 PM
Surr: BFB	96.0	15-244		%Rec	1	10/31/2023 9:02:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	10/31/2023 9:02:26 PM
Toluene	ND	0.047		mg/Kg	1	10/31/2023 9:02:26 PM
Ethylbenzene	ND	0.047		mg/Kg	1	10/31/2023 9:02:26 PM
Xylenes, Total	ND	0.095		mg/Kg	1	10/31/2023 9:02:26 PM
Surr: 4-Bromofluorobenzene	102	39.1-146		%Rec	1	10/31/2023 9:02:26 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	10/31/2023 9:30:15 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310D40

Date Reported: 11/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-03 0'

Project: Gaucho Unit 6H

Collection Date: 10/26/2023 12:20:00 PM

Lab ID: 2310D40-005

Matrix: SOIL

Received Date: 10/28/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	11000	930		mg/Kg	100	11/1/2023 11:10:07 AM
Motor Oil Range Organics (MRO)	5100	4700		mg/Kg	100	11/1/2023 11:10:07 AM
Surr: DNOP	0	69-147	S	%Rec	100	11/1/2023 11:10:07 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/31/2023 9:25:51 PM
Surr: BFB	92.6	15-244		%Rec	1	10/31/2023 9:25:51 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	10/31/2023 9:25:51 PM
Toluene	ND	0.049		mg/Kg	1	10/31/2023 9:25:51 PM
Ethylbenzene	ND	0.049		mg/Kg	1	10/31/2023 9:25:51 PM
Xylenes, Total	ND	0.098		mg/Kg	1	10/31/2023 9:25:51 PM
Surr: 4-Bromofluorobenzene	99.1	39.1-146		%Rec	1	10/31/2023 9:25:51 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	5600	300		mg/Kg	100	11/1/2023 11:30:12 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2310D40

Date Reported: 11/9/2023

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-03 2'

Project: Gaucho Unit 6H

Collection Date: 10/26/2023 12:25:00 PM

Lab ID: 2310D40-006

Matrix: SOIL

Received Date: 10/28/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	20	9.4		mg/Kg	1	10/31/2023 2:23:32 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/31/2023 2:23:32 PM
Surr: DNOP	106	69-147		%Rec	1	10/31/2023 2:23:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/31/2023 9:49:14 PM
Surr: BFB	94.6	15-244		%Rec	1	10/31/2023 9:49:14 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	10/31/2023 9:49:14 PM
Toluene	ND	0.048		mg/Kg	1	10/31/2023 9:49:14 PM
Ethylbenzene	ND	0.048		mg/Kg	1	10/31/2023 9:49:14 PM
Xylenes, Total	ND	0.097		mg/Kg	1	10/31/2023 9:49:14 PM
Surr: 4-Bromofluorobenzene	104	39.1-146		%Rec	1	10/31/2023 9:49:14 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	1600	60		mg/Kg	20	10/31/2023 10:19:53 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310D40

Date Reported: 11/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-03 4'

Project: Gaucho Unit 6H

Collection Date: 10/26/2023 2:25:00 PM

Lab ID: 2310D40-007

Matrix: SOIL

Received Date: 10/28/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	10/31/2023 2:34:24 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/31/2023 2:34:24 PM
Surr: DNOP	122	69-147		%Rec	1	10/31/2023 2:34:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/31/2023 10:12:35 PM
Surr: BFB	95.6	15-244		%Rec	1	10/31/2023 10:12:35 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	10/31/2023 10:12:35 PM
Toluene	ND	0.048		mg/Kg	1	10/31/2023 10:12:35 PM
Ethylbenzene	ND	0.048		mg/Kg	1	10/31/2023 10:12:35 PM
Xylenes, Total	ND	0.096		mg/Kg	1	10/31/2023 10:12:35 PM
Surr: 4-Bromofluorobenzene	103	39.1-146		%Rec	1	10/31/2023 10:12:35 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	220	60		mg/Kg	20	10/31/2023 10:32:17 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310D40

Date Reported: 11/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-04 0'

Project: Gaucho Unit 6H

Collection Date: 10/26/2023 12:30:00 PM

Lab ID: 2310D40-008

Matrix: SOIL

Received Date: 10/28/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	2200	97		mg/Kg	10	10/31/2023 2:45:16 PM
Motor Oil Range Organics (MRO)	2100	480		mg/Kg	10	10/31/2023 2:45:16 PM
Surr: DNOP	0	69-147	S	%Rec	10	10/31/2023 2:45:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/31/2023 10:35:56 PM
Surr: BFB	94.0	15-244		%Rec	1	10/31/2023 10:35:56 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	10/31/2023 10:35:56 PM
Toluene	ND	0.046		mg/Kg	1	10/31/2023 10:35:56 PM
Ethylbenzene	ND	0.046		mg/Kg	1	10/31/2023 10:35:56 PM
Xylenes, Total	ND	0.093		mg/Kg	1	10/31/2023 10:35:56 PM
Surr: 4-Bromofluorobenzene	101	39.1-146		%Rec	1	10/31/2023 10:35:56 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	400	60		mg/Kg	20	10/31/2023 10:44:42 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310D40

Date Reported: 11/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-04 2'

Project: Gaucho Unit 6H

Collection Date: 10/26/2023 12:35:00 PM

Lab ID: 2310D40-009

Matrix: SOIL

Received Date: 10/28/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/31/2023 2:56:07 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/31/2023 2:56:07 PM
Surr: DNOP	133	69-147		%Rec	1	10/31/2023 2:56:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/31/2023 10:59:14 PM
Surr: BFB	93.4	15-244		%Rec	1	10/31/2023 10:59:14 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	10/31/2023 10:59:14 PM
Toluene	ND	0.048		mg/Kg	1	10/31/2023 10:59:14 PM
Ethylbenzene	ND	0.048		mg/Kg	1	10/31/2023 10:59:14 PM
Xylenes, Total	ND	0.097		mg/Kg	1	10/31/2023 10:59:14 PM
Surr: 4-Bromofluorobenzene	101	39.1-146		%Rec	1	10/31/2023 10:59:14 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	130	60		mg/Kg	20	10/31/2023 10:57:06 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2310D40

Date Reported: 11/9/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-05 0'
Project: Gaucho Unit 6H Collection Date: 10/26/2023 1:00:00 PM
Lab ID: 2310D40-010 Matrix: SOIL Received Date: 10/28/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	17	9.9		mg/Kg	1	10/31/2023 3:17:37 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/31/2023 3:17:37 PM
Surr: DNOP	99.6	69-147		%Rec	1	10/31/2023 3:17:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/31/2023 11:22:34 PM
Surr: BFB	93.0	15-244		%Rec	1	10/31/2023 11:22:34 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	10/31/2023 11:22:34 PM
Toluene	ND	0.046		mg/Kg	1	10/31/2023 11:22:34 PM
Ethylbenzene	ND	0.046		mg/Kg	1	10/31/2023 11:22:34 PM
Xylenes, Total	ND	0.092		mg/Kg	1	10/31/2023 11:22:34 PM
Surr: 4-Bromofluorobenzene	99.2	39.1-146		%Rec	1	10/31/2023 11:22:34 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	330	60		mg/Kg	20	10/31/2023 11:34:20 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.
Project: Gaucho Unit 6H
Lab ID: 2310D40-011

Client Sample ID: BH23-05 2'
Collection Date: 10/26/2023 1:05:00 PM
Received Date: 10/28/2023 7:50:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/31/2023 3:50:13 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/31/2023 3:50:13 PM
Surr: DNOP	111	69-147		%Rec	1	10/31/2023 3:50:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/1/2023 12:09:09 AM
Surr: BFB	94.2	15-244		%Rec	1	11/1/2023 12:09:09 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/1/2023 12:09:09 AM
Toluene	ND	0.047		mg/Kg	1	11/1/2023 12:09:09 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/1/2023 12:09:09 AM
Xylenes, Total	ND	0.094		mg/Kg	1	11/1/2023 12:09:09 AM
Surr: 4-Bromofluorobenzene	99.9	39.1-146		%Rec	1	11/1/2023 12:09:09 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	94	60		mg/Kg	20	10/31/2023 11:46:45 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310D40

Date Reported: 11/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-06 0'

Project: Gaucho Unit 6H

Collection Date: 10/26/2023 1:10:00 PM

Lab ID: 2310D40-012

Matrix: SOIL

Received Date: 10/28/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	2800	92		mg/Kg	10	11/1/2023 10:49:03 AM
Motor Oil Range Organics (MRO)	1300	460		mg/Kg	10	11/1/2023 10:49:03 AM
Surr: DNOP	0	69-147	S	%Rec	10	11/1/2023 10:49:03 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/1/2023 12:32:20 AM
Surr: BFB	109	15-244		%Rec	1	11/1/2023 12:32:20 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/1/2023 12:32:20 AM
Toluene	ND	0.050		mg/Kg	1	11/1/2023 12:32:20 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/1/2023 12:32:20 AM
Xylenes, Total	0.19	0.099		mg/Kg	1	11/1/2023 12:32:20 AM
Surr: 4-Bromofluorobenzene	99.9	39.1-146		%Rec	1	11/1/2023 12:32:20 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	8300	300		mg/Kg	100	11/1/2023 11:42:36 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2310D40

Date Reported: 11/9/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-06 2'
Project: Gaucho Unit 6H Collection Date: 10/26/2023 1:15:00 PM
Lab ID: 2310D40-013 Matrix: SOIL Received Date: 10/28/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/31/2023 4:41:58 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/31/2023 4:41:58 PM
Surr: DNOP	117	69-147		%Rec	1	10/31/2023 4:41:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/1/2023 12:55:34 AM
Surr: BFB	92.4	15-244		%Rec	1	11/1/2023 12:55:34 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/1/2023 12:55:34 AM
Toluene	ND	0.047		mg/Kg	1	11/1/2023 12:55:34 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/1/2023 12:55:34 AM
Xylenes, Total	ND	0.094		mg/Kg	1	11/1/2023 12:55:34 AM
Surr: 4-Bromofluorobenzene	98.5	39.1-146		%Rec	1	11/1/2023 12:55:34 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	11/1/2023 12:11:34 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310D40

Date Reported: 11/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-07 0'

Project: Gaucho Unit 6H

Collection Date: 10/26/2023 12:25:00 PM

Lab ID: 2310D40-014

Matrix: SOIL

Received Date: 10/28/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/31/2023 4:52:47 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/31/2023 4:52:47 PM
Surr: DNOP	99.9	69-147		%Rec	1	10/31/2023 4:52:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/1/2023 1:18:44 AM
Surr: BFB	93.8	15-244		%Rec	1	11/1/2023 1:18:44 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/1/2023 1:18:44 AM
Toluene	ND	0.046		mg/Kg	1	11/1/2023 1:18:44 AM
Ethylbenzene	ND	0.046		mg/Kg	1	11/1/2023 1:18:44 AM
Xylenes, Total	ND	0.093		mg/Kg	1	11/1/2023 1:18:44 AM
Surr: 4-Bromofluorobenzene	100	39.1-146		%Rec	1	11/1/2023 1:18:44 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	3200	150		mg/Kg	50	11/1/2023 12:19:48 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310D40

Date Reported: 11/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-07 2'

Project: Gaucho Unit 6H

Collection Date: 10/26/2023 12:30:00 PM

Lab ID: 2310D40-015

Matrix: SOIL

Received Date: 10/28/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	19	9.8		mg/Kg	1	10/31/2023 5:03:35 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/31/2023 5:03:35 PM
Surr: DNOP	97.6	69-147		%Rec	1	10/31/2023 5:03:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/1/2023 1:41:56 AM
Surr: BFB	90.4	15-244		%Rec	1	11/1/2023 1:41:56 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/1/2023 1:41:56 AM
Toluene	ND	0.049		mg/Kg	1	11/1/2023 1:41:56 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/1/2023 1:41:56 AM
Xylenes, Total	ND	0.099		mg/Kg	1	11/1/2023 1:41:56 AM
Surr: 4-Bromofluorobenzene	97.2	39.1-146		%Rec	1	11/1/2023 1:41:56 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	970	60		mg/Kg	20	11/1/2023 12:36:23 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2310D40
Date Reported: 11/9/2023

CLIENT: Vertex Resources Services, Inc.
Project: Gaucho Unit 6H
Lab ID: 2310D40-016

Client Sample ID: BH23-08 0'
Collection Date: 10/26/2023 1:25:00 PM
Received Date: 10/28/2023 7:50:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	82	9.7		mg/Kg	1	10/31/2023 5:14:21 PM
Motor Oil Range Organics (MRO)	91	48		mg/Kg	1	10/31/2023 5:14:21 PM
Surr: DNOP	96.4	69-147		%Rec	1	10/31/2023 5:14:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/1/2023 2:05:06 AM
Surr: BFB	88.3	15-244		%Rec	1	11/1/2023 2:05:06 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/1/2023 2:05:06 AM
Toluene	ND	0.049		mg/Kg	1	11/1/2023 2:05:06 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/1/2023 2:05:06 AM
Xylenes, Total	ND	0.099		mg/Kg	1	11/1/2023 2:05:06 AM
Surr: 4-Bromofluorobenzene	95.1	39.1-146		%Rec	1	11/1/2023 2:05:06 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	6300	300		mg/Kg	100	11/1/2023 11:55:00 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310D40

Date Reported: 11/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-08 2'

Project: Gaucho Unit 6H

Collection Date: 10/26/2023 1:30:00 PM

Lab ID: 2310D40-017

Matrix: SOIL

Received Date: 10/28/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	10/31/2023 5:25:06 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/31/2023 5:25:06 PM
Surr: DNOP	108	69-147		%Rec	1	10/31/2023 5:25:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/1/2023 2:28:12 AM
Surr: BFB	89.8	15-244		%Rec	1	11/1/2023 2:28:12 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/1/2023 2:28:12 AM
Toluene	ND	0.047		mg/Kg	1	11/1/2023 2:28:12 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/1/2023 2:28:12 AM
Xylenes, Total	ND	0.093		mg/Kg	1	11/1/2023 2:28:12 AM
Surr: 4-Bromofluorobenzene	96.9	39.1-146		%Rec	1	11/1/2023 2:28:12 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	410	60		mg/Kg	20	11/1/2023 1:01:12 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310D40

Date Reported: 11/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-09 0'

Project: Gaucho Unit 6H

Collection Date: 10/26/2023 1:30:00 PM

Lab ID: 2310D40-018

Matrix: SOIL

Received Date: 10/28/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	200	9.3		mg/Kg	1	10/31/2023 5:35:49 PM
Motor Oil Range Organics (MRO)	200	46		mg/Kg	1	10/31/2023 5:35:49 PM
Surr: DNOP	103	69-147		%Rec	1	10/31/2023 5:35:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/1/2023 2:51:18 AM
Surr: BFB	89.8	15-244		%Rec	1	11/1/2023 2:51:18 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/1/2023 2:51:18 AM
Toluene	ND	0.049		mg/Kg	1	11/1/2023 2:51:18 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/1/2023 2:51:18 AM
Xylenes, Total	ND	0.099		mg/Kg	1	11/1/2023 2:51:18 AM
Surr: 4-Bromofluorobenzene	96.1	39.1-146		%Rec	1	11/1/2023 2:51:18 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	8600	300		mg/Kg	100	11/1/2023 12:07:24 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2310D40

Date Reported: 11/9/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-09 2'
Project: Gaucho Unit 6H Collection Date: 10/26/2023 1:35:00 PM
Lab ID: 2310D40-019 Matrix: SOIL Received Date: 10/28/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/31/2023 5:46:32 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/31/2023 5:46:32 PM
Surr: DNOP	105	69-147		%Rec	1	10/31/2023 5:46:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/1/2023 3:14:26 AM
Surr: BFB	90.7	15-244		%Rec	1	11/1/2023 3:14:26 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/1/2023 3:14:26 AM
Toluene	ND	0.048		mg/Kg	1	11/1/2023 3:14:26 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/1/2023 3:14:26 AM
Xylenes, Total	ND	0.097		mg/Kg	1	11/1/2023 3:14:26 AM
Surr: 4-Bromofluorobenzene	97.6	39.1-146		%Rec	1	11/1/2023 3:14:26 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	2200	60		mg/Kg	20	11/1/2023 1:26:02 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310D40

Date Reported: 11/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-10 0'

Project: Gaucho Unit 6H

Collection Date: 10/26/2023 1:40:00 PM

Lab ID: 2310D40-020

Matrix: SOIL

Received Date: 10/28/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	6900	98		mg/Kg	10	10/31/2023 5:57:13 PM
Motor Oil Range Organics (MRO)	4900	490		mg/Kg	10	10/31/2023 5:57:13 PM
Surr: DNOP	0	69-147	S	%Rec	10	10/31/2023 5:57:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/1/2023 3:37:29 AM
Surr: BFB	88.0	15-244		%Rec	1	11/1/2023 3:37:29 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/1/2023 3:37:29 AM
Toluene	ND	0.046		mg/Kg	1	11/1/2023 3:37:29 AM
Ethylbenzene	ND	0.046		mg/Kg	1	11/1/2023 3:37:29 AM
Xylenes, Total	ND	0.092		mg/Kg	1	11/1/2023 3:37:29 AM
Surr: 4-Bromofluorobenzene	95.0	39.1-146		%Rec	1	11/1/2023 3:37:29 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	810	60		mg/Kg	20	11/1/2023 2:03:15 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310D40

Date Reported: 11/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-10 2'

Project: Gaucho Unit 6H

Collection Date: 10/26/2023 1:45:00 PM

Lab ID: 2310D40-021

Matrix: SOIL

Received Date: 10/28/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	15	9.7		mg/Kg	1	11/1/2023 3:53:45 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/1/2023 3:53:45 PM
Surr: DNOP	109	69-147		%Rec	1	11/1/2023 3:53:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/1/2023 9:54:00 PM
Surr: BFB	101	15-244		%Rec	1	11/1/2023 9:54:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/1/2023 9:54:00 PM
Toluene	ND	0.048		mg/Kg	1	11/1/2023 9:54:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/1/2023 9:54:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/1/2023 9:54:00 PM
Surr: 4-Bromofluorobenzene	85.9	39.1-146		%Rec	1	11/1/2023 9:54:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	72	60		mg/Kg	20	11/1/2023 6:56:53 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310D40

09-Nov-23

Client: Vertex Resources Services, Inc.**Project:** Gaucho Unit 6H

Sample ID: MB-78483	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 78483		RunNo: 100869							
Prep Date: 10/31/2023	Analysis Date: 10/31/2023		SeqNo: 3701223		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78483	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 78483		RunNo: 100869							
Prep Date: 10/31/2023	Analysis Date: 10/31/2023		SeqNo: 3701224		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.8	90	110			

Sample ID: MB-78495	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 78495		RunNo: 100902							
Prep Date: 11/1/2023	Analysis Date: 11/1/2023		SeqNo: 3702690		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78495	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 78495		RunNo: 100902							
Prep Date: 11/1/2023	Analysis Date: 11/1/2023		SeqNo: 3702691		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.8	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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310D40

09-Nov-23

Client: Vertex Resources Services, Inc.

Project: Gaucho Unit 6H

Sample ID: 2310D40-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: BH23-01 0'	Batch ID: 78451	RunNo: 100863
Prep Date: 10/30/2023	Analysis Date: 10/31/2023	SeqNo: 3700751 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	58	9.9 49.60 0 118 54.2 135
Surr: DNOP	7.3	4.960 148 69 147 S

Sample ID: 2310D40-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: BH23-01 0'	Batch ID: 78451	RunNo: 100863
Prep Date: 10/30/2023	Analysis Date: 10/31/2023	SeqNo: 3700752 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	52	9.6 48.12 0 109 54.2 135 10.8 29.2
Surr: DNOP	6.8	4.812 141 69 147 0 0

Sample ID: LCS-78451	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 78451	RunNo: 100863
Prep Date: 10/30/2023	Analysis Date: 10/31/2023	SeqNo: 3700787 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	49	10 50.00 0 97.4 61.9 130
Surr: DNOP	6.3	5.000 125 69 147

Sample ID: MB-78451	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 78451	RunNo: 100863
Prep Date: 10/30/2023	Analysis Date: 10/31/2023	SeqNo: 3700790 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND	10
Motor Oil Range Organics (MRO)	ND	50
Surr: DNOP	12	10.00 124 69 147

Sample ID: LCS-78465	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 78465	RunNo: 100868
Prep Date: 10/31/2023	Analysis Date: 11/1/2023	SeqNo: 3701934 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	61	10 50.00 0 121 61.9 130
Surr: DNOP	7.9	5.000 158 69 147 S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310D40

09-Nov-23

Client: Vertex Resources Services, Inc.
Project: Gaucho Unit 6H

Sample ID: MB-78465	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78465	RunNo: 100868								
Prep Date: 10/31/2023	Analysis Date: 11/1/2023	SeqNo: 3701937		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		97.6	69	147			

- Qualifiers:
- *

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

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

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310D40

09-Nov-23

Client: Vertex Resources Services, Inc.

Project: Gaucho Unit 6H

Sample ID: ics-78445	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 78445			RunNo: 100845						
Prep Date: 10/30/2023	Analysis Date: 10/31/2023			SeqNo: 3700851		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.2	70	130			
Surr: BFB	2000		1000		197	15	244			

Sample ID: mb-78445	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 78445			RunNo: 100845						
Prep Date: 10/30/2023	Analysis Date: 10/31/2023			SeqNo: 3700852		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		95.8	15	244			

Sample ID: 2310d40-001ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH23-01 0'	Batch ID: 78445			RunNo: 100845						
Prep Date: 10/30/2023	Analysis Date: 11/1/2023			SeqNo: 3700854		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.8	23.83	0	87.0	70	130			
Surr: BFB	1900		953.3		196	15	244			

Sample ID: 2310d40-001amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH23-01 0'	Batch ID: 78445			RunNo: 100845						
Prep Date: 10/30/2023	Analysis Date: 11/1/2023			SeqNo: 3700855		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.8	23.90	0	87.4	70	130	0.745	20	
Surr: BFB	1800		956.0		191	15	244	0	0	

Sample ID: ics-78452	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 78452			RunNo: 100890						
Prep Date: 10/30/2023	Analysis Date: 11/1/2023			SeqNo: 3702085		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.8	70	130			
Surr: BFB	2100		1000		214	15	244			

Sample ID: mb-78452	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 78452			RunNo: 100890						
Prep Date: 10/30/2023	Analysis Date: 11/1/2023			SeqNo: 3702086		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310D40

09-Nov-23

Client: Vertex Resources Services, Inc.

Project: Gaucho Unit 6H

Sample ID: mb-78452	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 78452	RunNo: 100890								
Prep Date: 10/30/2023	Analysis Date: 11/1/2023	SeqNo: 3702086		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		106	15	244			

Sample ID: 2310D40-021ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH23-10 2'	Batch ID: 78452	RunNo: 100890								
Prep Date: 10/30/2023	Analysis Date: 11/1/2023	SeqNo: 3702088		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	24.20	0	89.1	70	130			
Surr: BFB	2100		968.1		221	15	244			

Sample ID: 2310D40-021amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH23-10 2'	Batch ID: 78452	RunNo: 100890								
Prep Date: 10/30/2023	Analysis Date: 11/1/2023	SeqNo: 3702089		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.37	0	92.5	70	130	4.42	20	
Surr: BFB	2100		974.7		215	15	244	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 standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310D40

09-Nov-23

Client: Vertex Resources Services, Inc.

Project: Gaucho Unit 6H

Sample ID: LCS-78445	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 78445		RunNo: 100845							
Prep Date: 10/30/2023	Analysis Date: 10/31/2023		SeqNo: 3700875		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.0	70	130			
Toluene	0.88	0.050	1.000	0	88.1	70	130			
Ethylbenzene	0.91	0.050	1.000	0	90.5	70	130			
Xylenes, Total	2.7	0.10	3.000	0	90.8	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	39.1	146			

Sample ID: mb-78445	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 78445		RunNo: 100845							
Prep Date: 10/30/2023	Analysis Date: 10/31/2023		SeqNo: 3700876		Units: mg/Kg					
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	39.1	146			

Sample ID: 2310d40-002ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH23-01 2'	Batch ID: 78445		RunNo: 100845							
Prep Date: 10/30/2023	Analysis Date: 11/1/2023		SeqNo: 3700879		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9579	0	98.8	70	130			
Toluene	0.96	0.048	0.9579	0	99.7	70	130			
Ethylbenzene	0.97	0.048	0.9579	0	101	70	130			
Xylenes, Total	2.9	0.096	2.874	0	99.7	70	130			
Surr: 4-Bromofluorobenzene	0.95		0.9579		99.4	39.1	146			

Sample ID: 2310d40-002amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH23-01 2'	Batch ID: 78445		RunNo: 100845							
Prep Date: 10/30/2023	Analysis Date: 11/1/2023		SeqNo: 3700880		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.024	0.9597	0	88.5	70	130	10.8	20	
Toluene	0.86	0.048	0.9597	0	90.1	70	130	9.92	20	
Ethylbenzene	0.88	0.048	0.9597	0	92.2	70	130	8.75	20	
Xylenes, Total	2.6	0.096	2.879	0	91.5	70	130	8.41	20	
Surr: 4-Bromofluorobenzene	0.95		0.9597		98.8	39.1	146	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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310D40

09-Nov-23

Client: Vertex Resources Services, Inc.

Project: Gaucho Unit 6H

Sample ID: lcs-78452	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 78452		RunNo: 100890							
Prep Date: 10/30/2023	Analysis Date: 11/1/2023		SeqNo: 3702063		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.75	0.025	1.000	0	74.7	70	130			
Toluene	0.76	0.050	1.000	0	76.3	70	130			
Ethylbenzene	0.79	0.050	1.000	0	78.9	70	130			
Xylenes, Total	2.3	0.10	3.000	0	78.3	70	130			
Surr: 4-Bromofluorobenzene	0.86		1.000		86.5	39.1	146			

Sample ID: mb-78452	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 78452		RunNo: 100890							
Prep Date: 10/30/2023	Analysis Date: 11/1/2023		SeqNo: 3702064		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		89.0	39.1	146			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

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

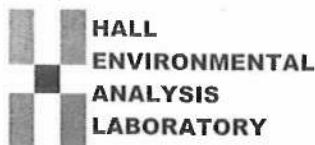
B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit



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

Sample Log-In Check List

Client Name: Vertex Resources
Services, Inc.

Work Order Number: 2310D40

RcptNo: 1

Received By: Cheyenne Cason

10/28/2023 7:50:00 AM

Check

Completed By: Cheyenne Cason

10/28/2023 8:32:39 AM

Check

Reviewed By: JR 10/30/23

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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: *me 10/28/23*

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.7	Good	Not Present	Yogi		
2	2.9	Good	Not Present	Yogi		

Released to Imaging: 2/25/2025 11:04:45 AM

Turn-Around Time:

☐ Standard ☒ Rush_72-hour rush

Project Name:

Gaucha Unit 6H

Project #:

23E-05499

Project Manager:

Kent Stallings

kstallings@vertex.ca

Sampler: L. Pullman

On Ice: ☒ Yes ☐ No

of Coolers: 7 $0.7 - 0 = 0.7$

Cooler Temp (including CF): $79 - 12 = 7.9$ Container
Type and #Preservative
Type

HEAL No.
3161240

Date	Time	Matrix	Sample Name
10/26/23	13:15	Soil	BH23-06 2'
10/26/23	12:25	Soil	BH23-07 0'
10/26/23	12:30	Soil	BH23-07 2'
10/26/23	13:25	Soil	BH23-08 0'
10/26/23	13:30	Soil	BH23-08 2'
10/26/23	13:30	Soil	BH23-09 0'
10/26/23	13:35	Soil	BH23-09 2'
10/26/23	13:40	Soil	BH23-10 0'
10/26/23	13:45	Soil	BH23-10 2'

Container
Type and #Preservative
Type

HEAL No.
3161240

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

Date:	Time:	Relinquished by:
10-27-23	07:00	<i>[Signature]</i>

Date: 10/27/23	Time: 1900	Relinquished by: Ammun
-------------------	---------------	---------------------------

Received by:	Via:	Date	Time
Murphy		10/27/23	0700

Received by:	Via:	Date	Time
Cmc Canto		10/28/23	0750

Remarks:

Direct bill to Devon work order 21222677 Dale Woodall
cc. KStallings@vertex.ca, SMcCarty@vertex.ca for Final
Report

$$7/2$$

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.



Environment Testing

Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 13, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL:

FAX:

RE: Gaucho Unit 6H

OrderNo.: 2310E22

Dear Kent Stallings:

Eurofins Environment Testing South Central, LLC received 29 sample(s) on 11/1/2023 for the analyses presented in the following report.

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

Please do not hesitate to contact Eurofins Albuquerque 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 horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-02 4'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 10:15:00 AM

Lab ID: 2310E22-001

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	11/2/2023 9:06:43 PM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	11/2/2023 9:06:43 PM
Surr: DNOP	114	69-147		%Rec	1	11/2/2023 9:06:43 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/2/2023 2:56:00 PM
Surr: BFB	99.9	15-244		%Rec	1	11/2/2023 2:56:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/2/2023 2:56:00 PM
Toluene	ND	0.049		mg/Kg	1	11/2/2023 2:56:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/2/2023 2:56:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/2/2023 2:56:00 PM
Surr: 4-Bromofluorobenzene	87.3	39.1-146		%Rec	1	11/2/2023 2:56:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	110	60		mg/Kg	20	11/3/2023 8:07:26 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-07 4'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 10:25:00 AM

Lab ID: 2310E22-002

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	11/2/2023 9:17:26 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	11/2/2023 9:17:26 PM
Surr: DNOP	123	69-147		%Rec	1	11/2/2023 9:17:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/2/2023 4:01:00 PM
Surr: BFB	102	15-244		%Rec	1	11/2/2023 4:01:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	11/2/2023 4:01:00 PM
Toluene	ND	0.050		mg/Kg	1	11/2/2023 4:01:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/2/2023 4:01:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/2/2023 4:01:00 PM
Surr: 4-Bromofluorobenzene	85.6	39.1-146		%Rec	1	11/2/2023 4:01:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	81	60		mg/Kg	20	11/3/2023 8:19:51 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-09 4'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 10:30:00 AM

Lab ID: 2310E22-003

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/2/2023 9:28:09 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/2/2023 9:28:09 PM
Surr: DNOP	92.8	69-147		%Rec	1	11/2/2023 9:28:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/2/2023 5:06:00 PM
Surr: BFB	102	15-244		%Rec	1	11/2/2023 5:06:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/2/2023 5:06:00 PM
Toluene	ND	0.047		mg/Kg	1	11/2/2023 5:06:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/2/2023 5:06:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/2/2023 5:06:00 PM
Surr: 4-Bromofluorobenzene	87.7	39.1-146		%Rec	1	11/2/2023 5:06:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/3/2023 8:32:15 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-11 0'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 10:35:00 AM

Lab ID: 2310E22-004

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/2/2023 9:38:53 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/2/2023 9:38:53 PM
Surr: DNOP	93.3	69-147		%Rec	1	11/2/2023 9:38:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/2/2023 5:28:00 PM
Surr: BFB	101	15-244		%Rec	1	11/2/2023 5:28:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/2/2023 5:28:00 PM
Toluene	ND	0.048		mg/Kg	1	11/2/2023 5:28:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/2/2023 5:28:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/2/2023 5:28:00 PM
Surr: 4-Bromofluorobenzene	88.2	39.1-146		%Rec	1	11/2/2023 5:28:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/3/2023 8:44:39 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-11 2'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 10:40:00 AM

Lab ID: 2310E22-005

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	11/2/2023 9:49:37 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	11/2/2023 9:49:37 PM
Surr: DNOP	111	69-147		%Rec	1	11/2/2023 9:49:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/2/2023 5:50:00 PM
Surr: BFB	99.5	15-244		%Rec	1	11/2/2023 5:50:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/2/2023 5:50:00 PM
Toluene	ND	0.048		mg/Kg	1	11/2/2023 5:50:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/2/2023 5:50:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/2/2023 5:50:00 PM
Surr: 4-Bromofluorobenzene	85.6	39.1-146		%Rec	1	11/2/2023 5:50:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/3/2023 8:57:03 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-12 0'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 10:55:00 AM

Lab ID: 2310E22-006

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/2/2023 10:00:22 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/2/2023 10:00:22 PM
Surr: DNOP	94.4	69-147		%Rec	1	11/2/2023 10:00:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/2/2023 6:11:00 PM
Surr: BFB	97.2	15-244		%Rec	1	11/2/2023 6:11:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/2/2023 6:11:00 PM
Toluene	ND	0.047		mg/Kg	1	11/2/2023 6:11:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/2/2023 6:11:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/2/2023 6:11:00 PM
Surr: 4-Bromofluorobenzene	84.9	39.1-146		%Rec	1	11/2/2023 6:11:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	330	60		mg/Kg	20	11/3/2023 9:09:27 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-12 2'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 11:00:00 AM

Lab ID: 2310E22-007

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	11/2/2023 10:11:06 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	11/2/2023 10:11:06 PM
Surr: DNOP	97.6	69-147		%Rec	1	11/2/2023 10:11:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/2/2023 6:33:00 PM
Surr: BFB	100	15-244		%Rec	1	11/2/2023 6:33:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/2/2023 6:33:00 PM
Toluene	ND	0.047		mg/Kg	1	11/2/2023 6:33:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/2/2023 6:33:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/2/2023 6:33:00 PM
Surr: 4-Bromofluorobenzene	86.2	39.1-146		%Rec	1	11/2/2023 6:33:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/3/2023 9:46:40 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-13 0'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 11:10:00 AM

Lab ID: 2310E22-008

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/2/2023 10:21:51 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/2/2023 10:21:51 PM
Surr: DNOP	94.4	69-147		%Rec	1	11/2/2023 10:21:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/2/2023 6:55:00 PM
Surr: BFB	100	15-244		%Rec	1	11/2/2023 6:55:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	11/2/2023 6:55:00 PM
Toluene	ND	0.050		mg/Kg	1	11/2/2023 6:55:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/2/2023 6:55:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	11/2/2023 6:55:00 PM
Surr: 4-Bromofluorobenzene	86.5	39.1-146		%Rec	1	11/2/2023 6:55:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/3/2023 9:59:05 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-13 2'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 11:15:00 AM

Lab ID: 2310E22-009

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	11/2/2023 10:32:46 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	11/2/2023 10:32:46 PM
Surr: DNOP	98.7	69-147		%Rec	1	11/2/2023 10:32:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/2/2023 7:16:00 PM
Surr: BFB	99.6	15-244		%Rec	1	11/2/2023 7:16:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/2/2023 7:16:00 PM
Toluene	ND	0.049		mg/Kg	1	11/2/2023 7:16:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/2/2023 7:16:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/2/2023 7:16:00 PM
Surr: 4-Bromofluorobenzene	86.6	39.1-146		%Rec	1	11/2/2023 7:16:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/2/2023 10:09:51 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-14 0'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 11:25:00 AM

Lab ID: 2310E22-010

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/2/2023 10:43:40 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/2/2023 10:43:40 PM
Surr: DNOP	106	69-147		%Rec	1	11/2/2023 10:43:40 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/2/2023 7:38:00 PM
Surr: BFB	96.6	15-244		%Rec	1	11/2/2023 7:38:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/2/2023 7:38:00 PM
Toluene	ND	0.048		mg/Kg	1	11/2/2023 7:38:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/2/2023 7:38:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/2/2023 7:38:00 PM
Surr: 4-Bromofluorobenzene	83.7	39.1-146		%Rec	1	11/2/2023 7:38:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	190	60		mg/Kg	20	11/2/2023 10:22:15 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-14 2'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 11:30:00 AM

Lab ID: 2310E22-011

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	11/2/2023 11:05:02 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	11/2/2023 11:05:02 PM
Surr: DNOP	129	69-147		%Rec	1	11/2/2023 11:05:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/2/2023 8:43:00 PM
Surr: BFB	102	15-244		%Rec	1	11/2/2023 8:43:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/2/2023 8:43:00 PM
Toluene	ND	0.047		mg/Kg	1	11/2/2023 8:43:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/2/2023 8:43:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	11/2/2023 8:43:00 PM
Surr: 4-Bromofluorobenzene	84.7	39.1-146		%Rec	1	11/2/2023 8:43:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	130	60		mg/Kg	20	11/2/2023 10:34:40 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-15 0'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 11:40:00 AM

Lab ID: 2310E22-012

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	15	9.2		mg/Kg	1	11/2/2023 11:15:52 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/2/2023 11:15:52 PM
Surr: DNOP	128	69-147		%Rec	1	11/2/2023 11:15:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/2/2023 9:05:00 PM
Surr: BFB	98.7	15-244		%Rec	1	11/2/2023 9:05:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/2/2023 9:05:00 PM
Toluene	ND	0.048		mg/Kg	1	11/2/2023 9:05:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/2/2023 9:05:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/2/2023 9:05:00 PM
Surr: 4-Bromofluorobenzene	84.7	39.1-146		%Rec	1	11/2/2023 9:05:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	230	60		mg/Kg	20	11/2/2023 10:47:04 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-15 2'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 11:45:00 AM

Lab ID: 2310E22-013

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/2/2023 11:26:41 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/2/2023 11:26:41 PM
Surr: DNOP	115	69-147		%Rec	1	11/2/2023 11:26:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/2/2023 9:26:00 PM
Surr: BFB	101	15-244		%Rec	1	11/2/2023 9:26:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/2/2023 9:26:00 PM
Toluene	ND	0.048		mg/Kg	1	11/2/2023 9:26:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/2/2023 9:26:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/2/2023 9:26:00 PM
Surr: 4-Bromofluorobenzene	86.6	39.1-146		%Rec	1	11/2/2023 9:26:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	75	74		mg/Kg	20	11/2/2023 10:59:29 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-16 0'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 11:55:00 AM

Lab ID: 2310E22-014

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/2/2023 11:37:27 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/2/2023 11:37:27 PM
Surr: DNOP	98.5	69-147		%Rec	1	11/2/2023 11:37:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/2/2023 9:48:00 PM
Surr: BFB	101	15-244		%Rec	1	11/2/2023 9:48:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/2/2023 9:48:00 PM
Toluene	ND	0.048		mg/Kg	1	11/2/2023 9:48:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/2/2023 9:48:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/2/2023 9:48:00 PM
Surr: 4-Bromofluorobenzene	87.4	39.1-146		%Rec	1	11/2/2023 9:48:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/2/2023 11:11:53 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-16 2'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 12:00:00 PM

Lab ID: 2310E22-015

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	11/2/2023 11:48:13 PM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	11/2/2023 11:48:13 PM
Surr: DNOP	144	69-147		%Rec	1	11/2/2023 11:48:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/2/2023 10:10:00 PM
Surr: BFB	101	15-244		%Rec	1	11/2/2023 10:10:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	11/2/2023 10:10:00 PM
Toluene	ND	0.050		mg/Kg	1	11/2/2023 10:10:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/2/2023 10:10:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/2/2023 10:10:00 PM
Surr: 4-Bromofluorobenzene	87.7	39.1-146		%Rec	1	11/2/2023 10:10:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	30		mg/Kg	20	11/2/2023 11:24:17 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-17 0'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 12:10:00 PM

Lab ID: 2310E22-016

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/2/2023 11:58:57 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/2/2023 11:58:57 PM
Surr: DNOP	98.5	69-147		%Rec	1	11/2/2023 11:58:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/2/2023 10:31:00 PM
Surr: BFB	105	15-244		%Rec	1	11/2/2023 10:31:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	11/2/2023 10:31:00 PM
Toluene	ND	0.049		mg/Kg	1	11/2/2023 10:31:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/2/2023 10:31:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/2/2023 10:31:00 PM
Surr: 4-Bromofluorobenzene	85.6	39.1-146		%Rec	1	11/2/2023 10:31:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	83	60		mg/Kg	20	11/3/2023 12:26:20 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-17 2'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 12:15:00 PM

Lab ID: 2310E22-017

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/3/2023 12:09:40 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/3/2023 12:09:40 AM
Surr: DNOP	88.0	69-147		%Rec	1	11/3/2023 12:09:40 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/2/2023 10:53:00 PM
Surr: BFB	99.9	15-244		%Rec	1	11/2/2023 10:53:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/2/2023 10:53:00 PM
Toluene	ND	0.048		mg/Kg	1	11/2/2023 10:53:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/2/2023 10:53:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/2/2023 10:53:00 PM
Surr: 4-Bromofluorobenzene	86.1	39.1-146		%Rec	1	11/2/2023 10:53:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/3/2023 1:03:34 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-18 0'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 12:25:00 PM

Lab ID: 2310E22-018

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/3/2023 12:20:22 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/3/2023 12:20:22 AM
Surr: DNOP	91.7	69-147		%Rec	1	11/3/2023 12:20:22 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/2/2023 11:15:00 PM
Surr: BFB	99.0	15-244		%Rec	1	11/2/2023 11:15:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	11/2/2023 11:15:00 PM
Toluene	ND	0.049		mg/Kg	1	11/2/2023 11:15:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/2/2023 11:15:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/2/2023 11:15:00 PM
Surr: 4-Bromofluorobenzene	86.0	39.1-146		%Rec	1	11/2/2023 11:15:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	2000	60		mg/Kg	20	11/3/2023 1:40:46 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-18 2'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 12:30:00 PM

Lab ID: 2310E22-019

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	11/3/2023 12:31:02 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	11/3/2023 12:31:02 AM
Surr: DNOP	115	69-147		%Rec	1	11/3/2023 12:31:02 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/2/2023 11:37:00 PM
Surr: BFB	102	15-244		%Rec	1	11/2/2023 11:37:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	11/2/2023 11:37:00 PM
Toluene	ND	0.050		mg/Kg	1	11/2/2023 11:37:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/2/2023 11:37:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/2/2023 11:37:00 PM
Surr: 4-Bromofluorobenzene	88.4	39.1-146		%Rec	1	11/2/2023 11:37:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/3/2023 1:53:10 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-19 0'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 12:40:00 PM

Lab ID: 2310E22-020

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/3/2023 12:41:42 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/3/2023 12:41:42 AM
Surr: DNOP	92.4	69-147		%Rec	1	11/3/2023 12:41:42 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/2/2023 11:58:00 PM
Surr: BFB	103	15-244		%Rec	1	11/2/2023 11:58:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	11/2/2023 11:58:00 PM
Toluene	ND	0.050		mg/Kg	1	11/2/2023 11:58:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/2/2023 11:58:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/2/2023 11:58:00 PM
Surr: 4-Bromofluorobenzene	87.0	39.1-146		%Rec	1	11/2/2023 11:58:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	13000	600		mg/Kg	200	11/3/2023 11:38:23 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-19 2'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 12:45:00 PM

Lab ID: 2310E22-021

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/2/2023 12:52:22 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/2/2023 12:52:22 PM
Surr: DNOP	97.7	69-147		%Rec	1	11/2/2023 12:52:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/3/2023 7:56:00 PM
Surr: BFB	105	15-244		%Rec	1	11/3/2023 7:56:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.023		mg/Kg	1	11/3/2023 7:56:00 PM
Toluene	ND	0.046		mg/Kg	1	11/3/2023 7:56:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	11/3/2023 7:56:00 PM
Xylenes, Total	ND	0.091		mg/Kg	1	11/3/2023 7:56:00 PM
Surr: 4-Bromofluorobenzene	86.7	39.1-146		%Rec	1	11/3/2023 7:56:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	1900	60		mg/Kg	20	11/3/2023 2:42:49 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-20 0'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 12:55:00 PM

Lab ID: 2310E22-022

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/2/2023 1:03:05 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/2/2023 1:03:05 PM
Surr: DNOP	99.0	69-147		%Rec	1	11/2/2023 1:03:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/3/2023 8:17:00 PM
Surr: BFB	99.6	15-244		%Rec	1	11/3/2023 8:17:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	11/3/2023 8:17:00 PM
Toluene	ND	0.049		mg/Kg	1	11/3/2023 8:17:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/3/2023 8:17:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/3/2023 8:17:00 PM
Surr: 4-Bromofluorobenzene	87.0	39.1-146		%Rec	1	11/3/2023 8:17:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/3/2023 2:55:13 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-20 2'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 1:00:00 PM

Lab ID: 2310E22-023

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/2/2023 1:24:26 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/2/2023 1:24:26 PM
Surr: DNOP	100	69-147		%Rec	1	11/2/2023 1:24:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/3/2023 8:39:00 PM
Surr: BFB	103	15-244		%Rec	1	11/3/2023 8:39:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	11/3/2023 8:39:00 PM
Toluene	ND	0.050		mg/Kg	1	11/3/2023 8:39:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/3/2023 8:39:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	11/3/2023 8:39:00 PM
Surr: 4-Bromofluorobenzene	87.0	39.1-146		%Rec	1	11/3/2023 8:39:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/3/2023 3:07:37 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-21 0'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 1:10:00 PM

Lab ID: 2310E22-024

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	63	9.4		mg/Kg	1	11/2/2023 1:35:14 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/2/2023 1:35:14 PM
Surr: DNOP	98.4	69-147		%Rec	1	11/2/2023 1:35:14 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/3/2023 9:01:00 PM
Surr: BFB	99.7	15-244		%Rec	1	11/3/2023 9:01:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/3/2023 9:01:00 PM
Toluene	ND	0.049		mg/Kg	1	11/3/2023 9:01:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/3/2023 9:01:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/3/2023 9:01:00 PM
Surr: 4-Bromofluorobenzene	85.9	39.1-146		%Rec	1	11/3/2023 9:01:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	9200	600		mg/Kg	200	11/4/2023 12:15:37 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-21 2'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 1:15:00 PM

Lab ID: 2310E22-025

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	46	9.6		mg/Kg	1	11/2/2023 1:46:12 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/2/2023 1:46:12 PM
Surr: DNOP	108	69-147		%Rec	1	11/2/2023 1:46:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/3/2023 9:22:00 PM
Surr: BFB	103	15-244		%Rec	1	11/3/2023 9:22:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/3/2023 9:22:00 PM
Toluene	ND	0.048		mg/Kg	1	11/3/2023 9:22:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/3/2023 9:22:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/3/2023 9:22:00 PM
Surr: 4-Bromofluorobenzene	87.7	39.1-146		%Rec	1	11/3/2023 9:22:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/3/2023 3:32:27 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-22 0'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 1:25:00 PM

Lab ID: 2310E22-026

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	180	9.4		mg/Kg	1	11/2/2023 1:57:11 PM
Motor Oil Range Organics (MRO)	61	47		mg/Kg	1	11/2/2023 1:57:11 PM
Surr: DNOP	92.1	69-147		%Rec	1	11/2/2023 1:57:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/3/2023 9:44:00 PM
Surr: BFB	101	15-244		%Rec	1	11/3/2023 9:44:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.023		mg/Kg	1	11/3/2023 9:44:00 PM
Toluene	ND	0.047		mg/Kg	1	11/3/2023 9:44:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/3/2023 9:44:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	11/3/2023 9:44:00 PM
Surr: 4-Bromofluorobenzene	87.5	39.1-146		%Rec	1	11/3/2023 9:44:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	60	60		mg/Kg	20	11/3/2023 3:44:51 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-22 2'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 1:30:00 PM

Lab ID: 2310E22-027

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	12	10		mg/Kg	1	11/2/2023 2:47:34 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/2/2023 2:47:34 PM
Surr: DNOP	105	69-147		%Rec	1	11/2/2023 2:47:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/3/2023 10:06:00 PM
Surr: BFB	98.6	15-244		%Rec	1	11/3/2023 10:06:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/3/2023 10:06:00 PM
Toluene	ND	0.047		mg/Kg	1	11/3/2023 10:06:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/3/2023 10:06:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/3/2023 10:06:00 PM
Surr: 4-Bromofluorobenzene	86.1	39.1-146		%Rec	1	11/3/2023 10:06:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/3/2023 3:57:16 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-23 0'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 1:35:00 PM

Lab ID: 2310E22-028

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/2/2023 2:58:32 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/2/2023 2:58:32 PM
Surr: DNOP	105	69-147		%Rec	1	11/2/2023 2:58:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/3/2023 10:28:00 PM
Surr: BFB	103	15-244		%Rec	1	11/3/2023 10:28:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/3/2023 10:28:00 PM
Toluene	ND	0.047		mg/Kg	1	11/3/2023 10:28:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/3/2023 10:28:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/3/2023 10:28:00 PM
Surr: 4-Bromofluorobenzene	88.4	39.1-146		%Rec	1	11/3/2023 10:28:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/3/2023 4:09:41 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E22

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-23 2'

Project: Gaucho Unit 6H

Collection Date: 10/27/2023 1:40:00 PM

Lab ID: 2310E22-029

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/2/2023 3:09:30 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/2/2023 3:09:30 PM
Surr: DNOP	94.0	69-147		%Rec	1	11/2/2023 3:09:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/3/2023 10:49:00 PM
Surr: BFB	106	15-244		%Rec	1	11/3/2023 10:49:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/3/2023 10:49:00 PM
Toluene	ND	0.047		mg/Kg	1	11/3/2023 10:49:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/3/2023 10:49:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	11/3/2023 10:49:00 PM
Surr: 4-Bromofluorobenzene	87.9	39.1-146		%Rec	1	11/3/2023 10:49:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/3/2023 4:22:05 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310E22

13-Nov-23

Client: Vertex Resources Services, Inc.**Project:** Gaucho Unit 6H

Sample ID: MB-78538	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 78538		RunNo: 100938							
Prep Date: 11/2/2023	Analysis Date: 11/2/2023		SeqNo: 3704387		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78538	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 78538		RunNo: 100938							
Prep Date: 11/2/2023	Analysis Date: 11/2/2023		SeqNo: 3704388		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.3	90	110			

Sample ID: MB-78545	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 78545		RunNo: 100938							
Prep Date: 11/2/2023	Analysis Date: 11/3/2023		SeqNo: 3704434		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78545	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 78545		RunNo: 100938							
Prep Date: 11/2/2023	Analysis Date: 11/3/2023		SeqNo: 3704435		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.3	90	110			

Sample ID: MB-78533	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 78533		RunNo: 100947							
Prep Date: 11/2/2023	Analysis Date: 11/3/2023		SeqNo: 3705444		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78533	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 78533		RunNo: 100947							
Prep Date: 11/2/2023	Analysis Date: 11/3/2023		SeqNo: 3705445		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.4	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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310E22

13-Nov-23

Client: Vertex Resources Services, Inc.

Project: Gaucho Unit 6H

Sample ID: 2310E22-020AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH23-19 0'	Batch ID: 78508	RunNo: 100922								
Prep Date: 11/1/2023	Analysis Date: 11/3/2023	SeqNo: 3703639 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.3	46.73	0	93.4	54.2	135			
Surr: DNOP	5.2		4.673		111	69	147			

Sample ID: 2310E22-020AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH23-19 0'	Batch ID: 78508	RunNo: 100922								
Prep Date: 11/1/2023	Analysis Date: 11/3/2023	SeqNo: 3703640 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.2	46.17	0	93.1	54.2	135	1.55	29.2	
Surr: DNOP	4.9		4.617		107	69	147	0	0	

Sample ID: LCS-78507	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78507	RunNo: 100922								
Prep Date: 11/1/2023	Analysis Date: 11/2/2023	SeqNo: 3703676 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	61.9	130			
Surr: DNOP	6.3		5.000		126	69	147			

Sample ID: LCS-78508	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78508	RunNo: 100922								
Prep Date: 11/1/2023	Analysis Date: 11/2/2023	SeqNo: 3703677 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	61	10	50.00	0	122	61.9	130			
Surr: DNOP	7.1		5.000		141	69	147			

Sample ID: MB-78507	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78507	RunNo: 100922								
Prep Date: 11/1/2023	Analysis Date: 11/2/2023	SeqNo: 3703680 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		92.8	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 31 of 37

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310E22

13-Nov-23

Client: Vertex Resources Services, Inc.

Project: Gaucho Unit 6H

Sample ID: MB-78508	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78508	RunNo: 100922								
Prep Date: 11/1/2023	Analysis Date: 11/2/2023	SeqNo: 3703681 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		111	69	147			

Sample ID: LCS-78534	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78534	RunNo: 100940								
Prep Date: 11/2/2023	Analysis Date: 11/3/2023	SeqNo: 3704561 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.5		5.000		111	69	147			

Sample ID: MB-78534	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78534	RunNo: 100940								
Prep Date: 11/2/2023	Analysis Date: 11/3/2023	SeqNo: 3704563 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.0		10.00		90.0	69	147			

Sample ID: LCS-78541	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78541	RunNo: 100940								
Prep Date: 11/2/2023	Analysis Date: 11/3/2023	SeqNo: 3705011 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.7		5.000		174	69	147			S

Sample ID: LCS-78561	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78561	RunNo: 100940								
Prep Date: 11/3/2023	Analysis Date: 11/4/2023	SeqNo: 3705013 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.5		5.000		111	69	147			

Sample ID: MB-78541	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78541	RunNo: 100940								
Prep Date: 11/2/2023	Analysis Date: 11/3/2023	SeqNo: 3705015 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	14		10.00		140	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310E22

13-Nov-23

Client: Vertex Resources Services, Inc.

Project: Gaucho Unit 6H

Sample ID: MB-78561	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78561	RunNo: 100940								
Prep Date: 11/3/2023	Analysis Date: 11/4/2023	SeqNo: 3705017	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.1		10.00		91.2	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310E22

13-Nov-23

Client: Vertex Resources Services, Inc.

Project: Gaucho Unit 6H

Sample ID: ics-78498	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 78498			RunNo: 100931						
Prep Date: 11/1/2023	Analysis Date: 11/2/2023			SeqNo: 3704183		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.8	70	130			
Surr: BFB	2200		1000		220	15	244			

Sample ID: mb-78498	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 78498			RunNo: 100931						
Prep Date: 11/1/2023	Analysis Date: 11/2/2023			SeqNo: 3704184		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1000		98.2	15	244			

Sample ID: 2310E22-001ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH23-02 4'	Batch ID: 78498			RunNo: 100931						
Prep Date: 11/1/2023	Analysis Date: 11/2/2023			SeqNo: 3704186		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	24.13	0	99.7	70	130			
Surr: BFB	2300		965.3		234	15	244			

Sample ID: 2310E22-001amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH23-02 4'	Batch ID: 78498			RunNo: 100931						
Prep Date: 11/1/2023	Analysis Date: 11/2/2023			SeqNo: 3704187		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.30	0	98.0	70	130	1.02	20	
Surr: BFB	2200		971.8		229	15	244	0	0	

Sample ID: ics-78501	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 78501			RunNo: 100941						
Prep Date: 11/1/2023	Analysis Date: 11/3/2023			SeqNo: 3705069		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.0	70	130			
Surr: BFB	2300		1000		231	15	244			

Sample ID: mb-78501	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 78501			RunNo: 100941						
Prep Date: 11/1/2023	Analysis Date: 11/3/2023			SeqNo: 3705070		Units: mg/Kg				
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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310E22

13-Nov-23

Client: Vertex Resources Services, Inc.
Project: Gaucho Unit 6H

Sample ID: mb-78501	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 78501	RunNo: 100941								
Prep Date: 11/1/2023	Analysis Date: 11/3/2023	SeqNo: 3705070		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	15	244			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

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

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310E22

13-Nov-23

Client: Vertex Resources Services, Inc.

Project: Gaucho Unit 6H

Sample ID: lcs-78498	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 78498		RunNo: 100931							
Prep Date: 11/1/2023	Analysis Date: 11/2/2023		SeqNo: 3704257		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.71	0.025	1.000	0	70.6	70	130			
Toluene	0.75	0.050	1.000	0	74.6	70	130			
Ethylbenzene	0.76	0.050	1.000	0	76.4	70	130			
Xylenes, Total	2.3	0.10	3.000	0	75.7	70	130			
Surr: 4-Bromofluorobenzene	0.87		1.000		86.5	39.1	146			

Sample ID: mb-78498	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 78498		RunNo: 100931							
Prep Date: 11/1/2023	Analysis Date: 11/2/2023		SeqNo: 3704258		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		86.4	39.1	146			

Sample ID: 2310E22-002ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH23-07 4'	Batch ID: 78498		RunNo: 100931							
Prep Date: 11/1/2023	Analysis Date: 11/2/2023		SeqNo: 3704261		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.77	0.025	0.9901	0	77.4	70	130			
Toluene	0.80	0.050	0.9901	0	81.2	70	130			
Ethylbenzene	0.85	0.050	0.9901	0	85.7	70	130			
Xylenes, Total	2.5	0.099	2.970	0	85.4	70	130			
Surr: 4-Bromofluorobenzene	0.88		0.9901		89.2	39.1	146			

Sample ID: 2310E22-002amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH23-07 4'	Batch ID: 78498		RunNo: 100931							
Prep Date: 11/1/2023	Analysis Date: 11/2/2023		SeqNo: 3704262		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.75	0.025	0.9891	0	76.0	70	130	1.83	20	
Toluene	0.80	0.049	0.9891	0	80.6	70	130	0.813	20	
Ethylbenzene	0.83	0.049	0.9891	0	84.2	70	130	1.88	20	
Xylenes, Total	2.5	0.099	2.967	0	83.6	70	130	2.27	20	
Surr: 4-Bromofluorobenzene	0.85		0.9891		85.5	39.1	146	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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 36 of 37

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310E22

13-Nov-23

Client: Vertex Resources Services, Inc.**Project:** Gaucho Unit 6H

Sample ID: lcs-78501	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 78501		RunNo: 100941							
Prep Date: 11/1/2023	Analysis Date: 11/3/2023		SeqNo: 3705026		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.71	0.025	1.000	0	70.6	70	130			
Toluene	0.73	0.050	1.000	0	73.5	70	130			
Ethylbenzene	0.77	0.050	1.000	0	76.9	70	130			
Xylenes, Total	2.3	0.10	3.000	0	76.5	70	130			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.5	39.1	146			

Sample ID: mb-78501	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 78501		RunNo: 100941							
Prep Date: 11/1/2023	Analysis Date: 11/3/2023		SeqNo: 3705027		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		85.5	39.1	146			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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

Sample Log-In Check List

Client Name: Vertex Resources
Services, Inc.

Work Order Number: 2310E22

RcptNo: 1

Received By: Juan Rojas 11/1/2023 8:35:00 AM

Completed By: Cheyenne Cason 11/1/2023 9:02:47 AM

Reviewed By: TMC 11/1/23

[Signature]

[Signature]

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?
(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: TMC 11/1/23

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	0.3	Good	Not Present	Morty		
2	0.5	Good	Not Present	Morty		

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Client: **Vertex**

(direct bill to Devon, work order 21222677)

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:	<input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush_72-hour rush
Project Name:	Gaucho Unit 6H
Project #:	23E-05499
Project Manager:	Kent Stallings kstallings@vertex.ca

Sampler:	A. Castro	
On Ice:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
# of Coolers:	2	
Cooler Temp (including CF):	10.5-11.5	

Date	Time	Matrix	Sample Name	Cooler Temp(including CF):		BTEX / MT	TPH:8015D	8081 Pestic	EDB (Meth)	PAHs by 8:	RCRA 8 Me	Cl, F, Br, I	8260 (VOA)	8270 (Sem)	Total Colifo				
				Container Type and #	Preservative Type														
					0.4-0.1=0.3 HEAL No. 2310E22														
10/27/23	10:15	Soil	BH23-02 4'	1, 4oz jar	CC1	X	X					X							
10/27/23	10:25	Soil	BH23-07 4'	1, 4oz jar	CC2	X	X					X							
10/27/23	10:30	Soil	BH23-09 4'	1, 4oz jar	CC3	X	X					X							
10/27/23	10:35	Soil	BH23-11 0'	1, 4oz jar	CC4	X	X					X							
10/27/23	10:40	Soil	BH23-11 2'	1, 4oz jar	CC5	X	X					X							
10/27/23	10:55	Soil	BH23-12 0'	1, 4oz jar	CC6	X	X					X							
10/27/23	11:00	Soil	BH23-12 2'	1, 4oz jar	CC7	X	X					X							
10/27/23	11:10	Soil	BH23-13 0'	1, 4oz jar	CC8	X	X					X							
10/27/23	11:15	Soil	BH23-13 2'	1, 4oz jar	CC9	X	X					X							
10/27/23	11:25	Soil	BH23-14 0'	1, 4oz jar	CC10	X	X					X							
10/27/23	11:30	Soil	BH23-14 2'	1, 4oz jar	CC11	X	X					X							
10/27/23	11:40	Soil	BH23-15 0'	1, 4oz jar	CC12	X	X					X							
Date: 10-27-23	Time: 0700	Relinquished by: <i>Sabir Rahman</i>	Received by: Via: Date Time <i>[Signature]</i> 11/1/23 0700			Remarks: Direct bill to Devon work order 21222677 Dale Woodall cc. KStallings@vertex.ca, SMcCarty@vertex.ca for Final Report													
Date: 11/2/23	Time: 1900	Relinquished by: <i>[Signature]</i>	Received by: Via: Date Time <i>[Signature]</i> 11/1/23 8:35																

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.

www.hallenvironmental.com

Tel. 505-345-3975 Fax 505-345-4107

Turn-Around Time:

☐ Standard ☒ Rush_72-hour rush

(direct bill to Devon, work order 21222677)

Gaucha Unit 6H

Project #:

23E-05499

Project Manager:

Kent Stallings

kstallings@vertex.ca

Sampler: A. Castro

On Ice: ☒ Yes ☐ No

of Coolers: 7 Mort

Cooler Temp(including CF):

Container Type and #	Preservative Type
-------------------------	----------------------

HEAL No.
2310E22

Date	Time	Matrix	Sample Name
------	------	--------	-------------

10/27/23	13:15	Soil	BH23-21 2'
----------	-------	------	------------

10/27/23	13:25	Soil	BH23-22 0'
----------	-------	------	------------

10/27/23	13:30	Soil	BH23-22 2'
----------	-------	------	------------

10/27/22	13:35	Soil	BH23-23 0'
----------	-------	------	------------

10/24/22	13:40	Soil	BH23-23 2'
----------	-------	------	------------

Date:	Time:	Relinquished by:
-------	-------	------------------

0798 2 11/12

Date:	Time:	Relinquished by:
-------	-------	------------------

10/21/19	10/21/19	10/21/19
----------	----------	----------

Received by:	Via:	Date	Time
--------------	------	------	------

0.10 - 10/31/23 17.00

Received by:	Via:	Date	Time
--------------	------	------	------

11

Remarks:

Direct bill to Devon work order 21222677 Dale Woodall
cc. KStallings@vertex.ca, SMcCarty@vertex.ca for Final
Report

3/3

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.



*Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

November 13, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL:

FAX:

RE: Gouch Unit 6H

OrderNo.: 2310E25

Dear Kent Stallings:

Eurofins Environment Testing South Central, LLC received 10 sample(s) on 11/1/2023 for the analyses presented in the following report.

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

Please do not hesitate to contact Eurofins Albuquerque 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".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2310E25

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-34 0'

Project: Gouch Unit 6H

Collection Date: 10/29/2023 11:55:00 AM

Lab ID: 2310E25-001

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/2/2023 3:20:30 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/2/2023 3:20:30 PM
Surr: DNOP	88.1	69-147		%Rec	1	11/2/2023 3:20:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/3/2023 11:11:00 PM
Surr: BFB	100	15-244		%Rec	1	11/3/2023 11:11:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.023		mg/Kg	1	11/3/2023 11:11:00 PM
Toluene	ND	0.046		mg/Kg	1	11/3/2023 11:11:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	11/3/2023 11:11:00 PM
Xylenes, Total	ND	0.092		mg/Kg	1	11/3/2023 11:11:00 PM
Surr: 4-Bromofluorobenzene	87.2	39.1-146		%Rec	1	11/3/2023 11:11:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	62	60		mg/Kg	20	11/3/2023 4:59:18 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E25

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-34 2'

Project: Gouch Unit 6H

Collection Date: 10/29/2023 12:00:00 PM

Lab ID: 2310E25-002

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/3/2023 1:45:01 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/3/2023 1:45:01 AM
Surr: DNOP	95.6	69-147		%Rec	1	11/3/2023 1:45:01 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/3/2023 10:09:49 PM
Surr: BFB	93.2	15-244		%Rec	1	11/3/2023 10:09:49 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/3/2023 10:09:49 PM
Toluene	ND	0.048		mg/Kg	1	11/3/2023 10:09:49 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/3/2023 10:09:49 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/3/2023 10:09:49 PM
Surr: 4-Bromofluorobenzene	97.1	39.1-146		%Rec	1	11/3/2023 10:09:49 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/3/2023 5:11:43 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2310E25

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-35 0'

Project: Gouch Unit 6H

Collection Date: 10/29/2023 12:10:00 PM

Lab ID: 2310E25-003

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/3/2023 1:55:32 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/3/2023 1:55:32 AM
Surr: DNOP	99.3	69-147		%Rec	1	11/3/2023 1:55:32 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/3/2023 11:20:20 PM
Surr: BFB	92.6	15-244		%Rec	1	11/3/2023 11:20:20 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/3/2023 11:20:20 PM
Toluene	ND	0.048		mg/Kg	1	11/3/2023 11:20:20 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/3/2023 11:20:20 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/3/2023 11:20:20 PM
Surr: 4-Bromofluorobenzene	96.4	39.1-146		%Rec	1	11/3/2023 11:20:20 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/3/2023 5:24:07 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2310E25

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-35 2'

Project: Gouch Unit 6H

Collection Date: 10/29/2023 12:15:00 PM

Lab ID: 2310E25-004

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/3/2023 2:05:59 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/3/2023 2:05:59 AM
Surr: DNOP	92.9	69-147		%Rec	1	11/3/2023 2:05:59 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2023 12:30:30 AM
Surr: BFB	96.4	15-244		%Rec	1	11/4/2023 12:30:30 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/4/2023 12:30:30 AM
Toluene	ND	0.048		mg/Kg	1	11/4/2023 12:30:30 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2023 12:30:30 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/4/2023 12:30:30 AM
Surr: 4-Bromofluorobenzene	99.7	39.1-146		%Rec	1	11/4/2023 12:30:30 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/3/2023 5:36:32 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2310E25

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-36 0'

Project: Gouch Unit 6H

Collection Date: 10/29/2023 12:20:00 PM

Lab ID: 2310E25-005

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/3/2023 2:16:24 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2023 2:16:24 AM
Surr: DNOP	88.7	69-147		%Rec	1	11/3/2023 2:16:24 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/4/2023 12:54:01 AM
Surr: BFB	91.6	15-244		%Rec	1	11/4/2023 12:54:01 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/4/2023 12:54:01 AM
Toluene	ND	0.049		mg/Kg	1	11/4/2023 12:54:01 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/4/2023 12:54:01 AM
Xylenes, Total	ND	0.098		mg/Kg	1	11/4/2023 12:54:01 AM
Surr: 4-Bromofluorobenzene	94.8	39.1-146		%Rec	1	11/4/2023 12:54:01 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/3/2023 5:48:57 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2310E25

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-36 2'

Project: Gouch Unit 6H

Collection Date: 10/29/2023 12:25:00 PM

Lab ID: 2310E25-006

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/3/2023 2:26:48 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/3/2023 2:26:48 AM
Surr: DNOP	91.6	69-147		%Rec	1	11/3/2023 2:26:48 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/4/2023 1:17:29 AM
Surr: BFB	91.7	15-244		%Rec	1	11/4/2023 1:17:29 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/4/2023 1:17:29 AM
Toluene	ND	0.046		mg/Kg	1	11/4/2023 1:17:29 AM
Ethylbenzene	ND	0.046		mg/Kg	1	11/4/2023 1:17:29 AM
Xylenes, Total	ND	0.093		mg/Kg	1	11/4/2023 1:17:29 AM
Surr: 4-Bromofluorobenzene	94.7	39.1-146		%Rec	1	11/4/2023 1:17:29 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/3/2023 6:01:21 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E25

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-37 0'

Project: Gouch Unit 6H

Collection Date: 10/29/2023 12:30:00 PM

Lab ID: 2310E25-007

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	39	9.2		mg/Kg	1	11/3/2023 2:37:11 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/3/2023 2:37:11 AM
Surr: DNOP	81.5	69-147		%Rec	1	11/3/2023 2:37:11 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/4/2023 1:40:52 AM
Surr: BFB	101	15-244		%Rec	1	11/4/2023 1:40:52 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/4/2023 1:40:52 AM
Toluene	ND	0.046		mg/Kg	1	11/4/2023 1:40:52 AM
Ethylbenzene	ND	0.046		mg/Kg	1	11/4/2023 1:40:52 AM
Xylenes, Total	ND	0.093		mg/Kg	1	11/4/2023 1:40:52 AM
Surr: 4-Bromofluorobenzene	105	39.1-146		%Rec	1	11/4/2023 1:40:52 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/3/2023 10:24:14 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2310E25

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-37 2'

Project: Gouch Unit 6H

Collection Date: 10/29/2023 12:35:00 PM

Lab ID: 2310E25-008

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/3/2023 2:47:34 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/3/2023 2:47:34 AM
Surr: DNOP	88.2	69-147		%Rec	1	11/3/2023 2:47:34 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2023 2:04:18 AM
Surr: BFB	93.4	15-244		%Rec	1	11/4/2023 2:04:18 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/4/2023 2:04:18 AM
Toluene	ND	0.048		mg/Kg	1	11/4/2023 2:04:18 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2023 2:04:18 AM
Xylenes, Total	ND	0.095		mg/Kg	1	11/4/2023 2:04:18 AM
Surr: 4-Bromofluorobenzene	96.9	39.1-146		%Rec	1	11/4/2023 2:04:18 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/3/2023 11:01:27 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2310E25

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-38 0'

Project: Gouch Unit 6H

Collection Date: 10/29/2023 12:40:00 PM

Lab ID: 2310E25-009

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/3/2023 2:57:59 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2023 2:57:59 AM
Surr: DNOP	87.5	69-147		%Rec	1	11/3/2023 2:57:59 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2023 2:27:46 AM
Surr: BFB	92.6	15-244		%Rec	1	11/4/2023 2:27:46 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/4/2023 2:27:46 AM
Toluene	ND	0.048		mg/Kg	1	11/4/2023 2:27:46 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2023 2:27:46 AM
Xylenes, Total	ND	0.095		mg/Kg	1	11/4/2023 2:27:46 AM
Surr: 4-Bromofluorobenzene	96.7	39.1-146		%Rec	1	11/4/2023 2:27:46 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	59		mg/Kg	20	11/3/2023 11:13:52 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E25

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-38 2'

Project: Gouch Unit 6H

Collection Date: 10/29/2023 12:45:00 PM

Lab ID: 2310E25-010

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/3/2023 3:08:24 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/3/2023 3:08:24 AM
Surr: DNOP	86.9	69-147		%Rec	1	11/3/2023 3:08:24 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2023 2:51:13 AM
Surr: BFB	93.4	15-244		%Rec	1	11/4/2023 2:51:13 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/4/2023 2:51:13 AM
Toluene	ND	0.048		mg/Kg	1	11/4/2023 2:51:13 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2023 2:51:13 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/4/2023 2:51:13 AM
Surr: 4-Bromofluorobenzene	97.3	39.1-146		%Rec	1	11/4/2023 2:51:13 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/3/2023 12:15:54 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310E25

13-Nov-23

Client: Vertex Resources Services, Inc.**Project:** Gouch Unit 6H

Sample ID: MB-78545	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 78545		RunNo: 100938							
Prep Date: 11/2/2023	Analysis Date: 11/3/2023		SeqNo: 3704434		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78545	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 78545		RunNo: 100938							
Prep Date: 11/2/2023	Analysis Date: 11/3/2023		SeqNo: 3704435		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.3	90	110			

Sample ID: MB-78551	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 78551		RunNo: 100947							
Prep Date: 11/3/2023	Analysis Date: 11/3/2023		SeqNo: 3705446		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78551	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 78551		RunNo: 100947							
Prep Date: 11/3/2023	Analysis Date: 11/3/2023		SeqNo: 3705447		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.2	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 11 of 18

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2310E25

13-Nov-23

Client: Vertex Resources Services, Inc.**Project:** Gouch Unit 6H

Sample ID: 2310E25-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH23-34 0'	Batch ID: 78507	RunNo: 100922								
Prep Date: 11/1/2023	Analysis Date: 11/2/2023	SeqNo: 3703651 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	9.8	49.16	0	74.2	54.2	135			
Surr: DNOP	4.1		4.916		83.5	69	147			

Sample ID: 2310E25-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH23-34 0'	Batch ID: 78507	RunNo: 100922								
Prep Date: 11/1/2023	Analysis Date: 11/2/2023	SeqNo: 3703652 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.5	47.66	0	95.5	54.2	135	22.0	29.2	
Surr: DNOP	5.5		4.766		116	69	147	0	0	

Sample ID: LCS-78507	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78507	RunNo: 100922								
Prep Date: 11/1/2023	Analysis Date: 11/2/2023	SeqNo: 3703676 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	61.9	130			
Surr: DNOP	6.3		5.000		126	69	147			

Sample ID: LCS-78531	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78531	RunNo: 100922								
Prep Date: 11/2/2023	Analysis Date: 11/3/2023	SeqNo: 3703678 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.0	61.9	130			
Surr: DNOP	4.9		5.000		98.2	69	147			

Sample ID: MB-78507	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78507	RunNo: 100922								
Prep Date: 11/1/2023	Analysis Date: 11/2/2023	SeqNo: 3703680 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		92.8	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310E25

13-Nov-23

Client: Vertex Resources Services, Inc.

Project: Gouch Unit 6H

Sample ID: MB-78531	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78531	RunNo: 100922								
Prep Date: 11/2/2023	Analysis Date: 11/3/2023	SeqNo: 3703682			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		94.5	69	147			

Sample ID: LCS-78534	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78534	RunNo: 100940								
Prep Date: 11/2/2023	Analysis Date: 11/3/2023	SeqNo: 3704561			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.5		5.000		111	69	147			

Sample ID: MB-78534	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78534	RunNo: 100940								
Prep Date: 11/2/2023	Analysis Date: 11/3/2023	SeqNo: 3704563			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.0		10.00		90.0	69	147			

Sample ID: LCS-78541	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78541	RunNo: 100940								
Prep Date: 11/2/2023	Analysis Date: 11/3/2023	SeqNo: 3705011			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.7		5.000		174	69	147			S

Sample ID: LCS-78561	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78561	RunNo: 100940								
Prep Date: 11/3/2023	Analysis Date: 11/4/2023	SeqNo: 3705013			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.5		5.000		111	69	147			

Sample ID: MB-78541	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78541	RunNo: 100940								
Prep Date: 11/2/2023	Analysis Date: 11/3/2023	SeqNo: 3705015			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	14		10.00		140	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310E25
13-Nov-23

Client: Vertex Resources Services, Inc.
Project: Gouch Unit 6H

Sample ID: MB-78561	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78561	RunNo: 100940								
Prep Date: 11/3/2023	Analysis Date: 11/4/2023	SeqNo: 3705017	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.1		10.00		91.2	69	147			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

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

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310E25

13-Nov-23

Client: Vertex Resources Services, Inc.

Project: Gouch Unit 6H

Sample ID: ics-78506	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 78506		RunNo: 100932							
Prep Date: 11/1/2023	Analysis Date: 11/3/2023		SeqNo: 3704767		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.1	70	130			
Surr: BFB	2000		1000		196	15	244			

Sample ID: mb-78506	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 78506		RunNo: 100932							
Prep Date: 11/1/2023	Analysis Date: 11/3/2023		SeqNo: 3704769		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		94.3	15	244			

Sample ID: 2310e25-002ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH23-34 2'	Batch ID: 78506		RunNo: 100932							
Prep Date: 11/1/2023	Analysis Date: 11/3/2023		SeqNo: 3704772		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	24.04	0	91.8	70	130			
Surr: BFB	2000		961.5		203	15	244			

Sample ID: 2310e25-002amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH23-34 2'	Batch ID: 78506		RunNo: 100932							
Prep Date: 11/1/2023	Analysis Date: 11/3/2023		SeqNo: 3704773		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.8	23.99	0	88.4	70	130	3.92	20	
Surr: BFB	1900		959.7		199	15	244	0	0	

Sample ID: ics-78501	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 78501		RunNo: 100941							
Prep Date: 11/1/2023	Analysis Date: 11/3/2023		SeqNo: 3705069		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.0	70	130			
Surr: BFB	2300		1000		231	15	244			

Sample ID: mb-78501	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 78501		RunNo: 100941							
Prep Date: 11/1/2023	Analysis Date: 11/3/2023		SeqNo: 3705070		Units: mg/Kg					
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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310E25

13-Nov-23

Client: Vertex Resources Services, Inc.

Project: Gouch Unit 6H

Sample ID: mb-78501	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 78501	RunNo: 100941								
Prep Date: 11/1/2023	Analysis Date: 11/3/2023	SeqNo: 3705070		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	15	244			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310E25

13-Nov-23

Client: Vertex Resources Services, Inc.

Project: Gouch Unit 6H

Sample ID: LCS-78506	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 78506		RunNo: 100932							
Prep Date: 11/1/2023	Analysis Date: 11/3/2023		SeqNo: 3704821		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	83.9	70	130			
Toluene	0.88	0.050	1.000	0	88.1	70	130			
Ethylbenzene	0.90	0.050	1.000	0	89.7	70	130			
Xylenes, Total	2.7	0.10	3.000	0	90.0	70	130			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.2	39.1	146			

Sample ID: mb-78506	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 78506		RunNo: 100932							
Prep Date: 11/1/2023	Analysis Date: 11/3/2023		SeqNo: 3704823		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	39.1	146			

Sample ID: 2310e25-003ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH23-35 0'	Batch ID: 78506		RunNo: 100932							
Prep Date: 11/1/2023	Analysis Date: 11/3/2023		SeqNo: 3704827		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.024	0.9533	0	84.9	70	130			
Toluene	0.86	0.048	0.9533	0	89.9	70	130			
Ethylbenzene	0.87	0.048	0.9533	0	91.2	70	130			
Xylenes, Total	2.6	0.095	2.860	0	91.3	70	130			
Surr: 4-Bromofluorobenzene	0.95		0.9533		99.6	39.1	146			

Sample ID: 2310e25-003amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH23-35 0'	Batch ID: 78506		RunNo: 100932							
Prep Date: 11/1/2023	Analysis Date: 11/4/2023		SeqNo: 3704828		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.78	0.024	0.9560	0	81.1	70	130	4.28	20	
Toluene	0.83	0.048	0.9560	0	86.3	70	130	3.81	20	
Ethylbenzene	0.85	0.048	0.9560	0	88.6	70	130	2.64	20	
Xylenes, Total	2.5	0.096	2.868	0	88.8	70	130	2.48	20	
Surr: 4-Bromofluorobenzene	0.94		0.9560		98.8	39.1	146	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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310E25

13-Nov-23

Client: Vertex Resources Services, Inc.**Project:** Gouch Unit 6H

Sample ID: lcs-78501	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 78501			RunNo: 100941						
Prep Date: 11/1/2023	Analysis Date: 11/3/2023			SeqNo: 3705026		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.71	0.025	1.000	0	70.6	70	130			
Toluene	0.73	0.050	1.000	0	73.5	70	130			
Ethylbenzene	0.77	0.050	1.000	0	76.9	70	130			
Xylenes, Total	2.3	0.10	3.000	0	76.5	70	130			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.5	39.1	146			

Sample ID: mb-78501	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 78501			RunNo: 100941						
Prep Date: 11/1/2023	Analysis Date: 11/3/2023			SeqNo: 3705027		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		85.5	39.1	146			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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

Sample Log-In Check List

Client Name: Vertex Resources
Services, Inc.

Work Order Number: 2310E25

RcptNo: 1

Received By: Juan Rojas 11/1/2023 8:35:00 AM

Completed By: Cheyenne Cason 11/1/2023 9:07:45 AM

Reviewed By: Tmc 11/1/23

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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: gm 11/1/23

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.3	Good	Not Present	Morty		
2	0.5	Good	Not Present	Morty		

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Client: **Vertex**

(direct bill to Devon, work order 21222677)

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

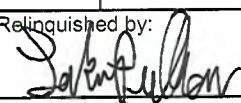


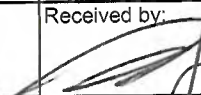
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:	<input type="checkbox"/> Standard	<input checked="" type="checkbox"/> Rush_72-hour rush
Project Name:	Gaucha Unit 6H	
Project #:	23E-05499	
Project Manager:	Kent Stallings kstallings@vertex.ca	
Sampler:	A. Castro	
On Ice:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
# of Coolers:	1	
Cooler Temp (including CF):	12.6-0.1 = 0.5	

Date	Time	Matrix	Sample Name	Cooler Temp (Including CF): 0.6-0.1-0.5		HEAL No. 2310 E25	BTEX / MT	TPH:80150	8081 Pestic	EDB (Meth	PAHs by 8	RCRA 8 M	Cl, F, Br,	8260 (VOA)	8270 (Sem	Total Colif															
				Container Type and #	Preservative Type																										
10/29/23	11:55	Soil	BH23-34 0'	1, 4oz jar		001	X	X					X																		
10/29/23	12:00	Soil	BH23-34 2'	1, 4oz jar		002	X	X					X																		
10/29/23	12:10	Soil	BH23-35 0'	1, 4oz jar		003	X	X					X																		
10/29/23	12:15	Soil	BH23-35 2'	1, 4oz jar		004	X	X					X																		
10/29/23	12:20	Soil	BH23-36 0'	1, 4oz jar		005	X	X					X																		
10/29/23	12:25	Soil	BH23-36 2'	1, 4oz jar		006	X	X					X																		
10/29/23	12:30	Soil	BH23-37 0'	1, 4oz jar		007	X	X					X																		
10/29/23	12:35	Soil	BH23-37 2'	1, 4oz jar		008	X	X					X																		
10/29/23	12:40	Soil	BH23-38 0'	1, 4oz jar		009	X	X					X																		
10/29/23	12:45	Soil	BH23-38 2'	1, 4oz jar		010	X	X					X																		
Date:	Time:	Relinquished by:	Received by: Via: Date Time				Remarks:																								
10-30-23	07:00		 10/31/23 0700				Direct bill to Devon work order 21222677 Dale Woodall cc. KStallings@vertex.ca, SMcCarty@vertex.ca for Final Report																								
Date:	Time:	Relinquished by:	Received by: Via: Date Time																												
10/31/23	1900		 counter 11/1/23 8:35																												
1/1																															

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.



*Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

November 13, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL:

FAX:

RE: Gaucho Unit 6H

OrderNo.: 2310E27

Dear Kent Stallings:

Eurofins Environment Testing South Central, LLC received 24 sample(s) on 11/1/2023 for the analyses presented in the following report.

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

Please do not hesitate to contact Eurofins Albuquerque 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".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2310E27

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-19 4'

Project: Gaucho Unit 6H

Collection Date: 10/28/2023 9:55:00 AM

Lab ID: 2310E27-001

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/3/2023 3:29:13 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/3/2023 3:29:13 AM
Surr: DNOP	88.9	69-147		%Rec	1	11/3/2023 3:29:13 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/4/2023 3:14:35 AM
Surr: BFB	93.7	15-244		%Rec	1	11/4/2023 3:14:35 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/4/2023 3:14:35 AM
Toluene	ND	0.046		mg/Kg	1	11/4/2023 3:14:35 AM
Ethylbenzene	ND	0.046		mg/Kg	1	11/4/2023 3:14:35 AM
Xylenes, Total	ND	0.092		mg/Kg	1	11/4/2023 3:14:35 AM
Surr: 4-Bromofluorobenzene	97.6	39.1-146		%Rec	1	11/4/2023 3:14:35 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	1400	60		mg/Kg	20	11/3/2023 12:28:19 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2310E27

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-19 6'

Project: Gaucho Unit 6H

Collection Date: 10/28/2023 10:15:00 AM

Lab ID: 2310E27-002

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/3/2023 3:39:40 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/3/2023 3:39:40 AM
Surr: DNOP	90.8	69-147		%Rec	1	11/3/2023 3:39:40 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/4/2023 4:01:24 AM
Surr: BFB	91.4	15-244		%Rec	1	11/4/2023 4:01:24 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/4/2023 4:01:24 AM
Toluene	ND	0.049		mg/Kg	1	11/4/2023 4:01:24 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/4/2023 4:01:24 AM
Xylenes, Total	ND	0.098		mg/Kg	1	11/4/2023 4:01:24 AM
Surr: 4-Bromofluorobenzene	96.4	39.1-146		%Rec	1	11/4/2023 4:01:24 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	810	60		mg/Kg	20	11/3/2023 12:40:44 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2310E27

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-19 8'

Project: Gaucho Unit 6H

Collection Date: 10/28/2023 10:00:00 AM

Lab ID: 2310E27-003

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/3/2023 3:50:09 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/3/2023 3:50:09 AM
Surr: DNOP	86.7	69-147		%Rec	1	11/3/2023 3:50:09 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2023 4:24:47 AM
Surr: BFB	92.2	15-244		%Rec	1	11/4/2023 4:24:47 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/4/2023 4:24:47 AM
Toluene	ND	0.048		mg/Kg	1	11/4/2023 4:24:47 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2023 4:24:47 AM
Xylenes, Total	ND	0.097		mg/Kg	1	11/4/2023 4:24:47 AM
Surr: 4-Bromofluorobenzene	96.3	39.1-146		%Rec	1	11/4/2023 4:24:47 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	170	60		mg/Kg	20	11/3/2023 12:53:09 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2310E27

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-21 4'

Project: Gaucho Unit 6H

Collection Date: 10/28/2023 10:00:00 AM

Lab ID: 2310E27-004

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	11	9.2		mg/Kg	1	11/3/2023 4:00:39 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/3/2023 4:00:39 AM
Surr: DNOP	87.9	69-147		%Rec	1	11/3/2023 4:00:39 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2023 4:48:07 AM
Surr: BFB	92.9	15-244		%Rec	1	11/4/2023 4:48:07 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/4/2023 4:48:07 AM
Toluene	ND	0.048		mg/Kg	1	11/4/2023 4:48:07 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2023 4:48:07 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/4/2023 4:48:07 AM
Surr: 4-Bromofluorobenzene	97.5	39.1-146		%Rec	1	11/4/2023 4:48:07 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/3/2023 1:05:33 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2310E27

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-24 0'

Project: Gaucho Unit 6H

Collection Date: 10/28/2023 10:45:00 AM

Lab ID: 2310E27-005

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/3/2023 4:11:10 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/3/2023 4:11:10 AM
Surr: DNOP	87.8	69-147		%Rec	1	11/3/2023 4:11:10 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2023 5:11:29 AM
Surr: BFB	91.5	15-244		%Rec	1	11/4/2023 5:11:29 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/4/2023 5:11:29 AM
Toluene	ND	0.048		mg/Kg	1	11/4/2023 5:11:29 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2023 5:11:29 AM
Xylenes, Total	ND	0.095		mg/Kg	1	11/4/2023 5:11:29 AM
Surr: 4-Bromofluorobenzene	96.4	39.1-146		%Rec	1	11/4/2023 5:11:29 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	59		mg/Kg	20	11/3/2023 1:17:57 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2310E27

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-24 2'

Project: Gaucho Unit 6H

Collection Date: 10/28/2023 10:50:00 AM

Lab ID: 2310E27-006

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/3/2023 4:21:51 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/3/2023 4:21:51 AM
Surr: DNOP	89.8	69-147		%Rec	1	11/3/2023 4:21:51 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/4/2023 5:34:51 AM
Surr: BFB	90.7	15-244		%Rec	1	11/4/2023 5:34:51 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/4/2023 5:34:51 AM
Toluene	ND	0.050		mg/Kg	1	11/4/2023 5:34:51 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/4/2023 5:34:51 AM
Xylenes, Total	ND	0.099		mg/Kg	1	11/4/2023 5:34:51 AM
Surr: 4-Bromofluorobenzene	95.3	39.1-146		%Rec	1	11/4/2023 5:34:51 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/3/2023 1:30:22 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2310E27

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-25 0'

Project: Gaucho Unit 6H

Collection Date: 10/28/2023 11:00:00 AM

Lab ID: 2310E27-007

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/3/2023 4:32:28 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/3/2023 4:32:28 AM
Surr: DNOP	89.1	69-147		%Rec	1	11/3/2023 4:32:28 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2023 5:58:12 AM
Surr: BFB	94.8	15-244		%Rec	1	11/4/2023 5:58:12 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/4/2023 5:58:12 AM
Toluene	ND	0.048		mg/Kg	1	11/4/2023 5:58:12 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2023 5:58:12 AM
Xylenes, Total	ND	0.095		mg/Kg	1	11/4/2023 5:58:12 AM
Surr: 4-Bromofluorobenzene	98.9	39.1-146		%Rec	1	11/4/2023 5:58:12 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/3/2023 1:42:47 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2310E27

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-25 2'

Project: Gaucho Unit 6H

Collection Date: 10/28/2023 11:05:00 AM

Lab ID: 2310E27-008

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/3/2023 4:43:06 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/3/2023 4:43:06 AM
Surr: DNOP	92.5	69-147		%Rec	1	11/3/2023 4:43:06 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/4/2023 6:21:30 AM
Surr: BFB	89.6	15-244		%Rec	1	11/4/2023 6:21:30 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/4/2023 6:21:30 AM
Toluene	ND	0.050		mg/Kg	1	11/4/2023 6:21:30 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/4/2023 6:21:30 AM
Xylenes, Total	ND	0.099		mg/Kg	1	11/4/2023 6:21:30 AM
Surr: 4-Bromofluorobenzene	95.3	39.1-146		%Rec	1	11/4/2023 6:21:30 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/3/2023 2:20:01 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2310E27

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-26 0'

Project: Gaucho Unit 6H

Collection Date: 10/28/2023 11:10:00 AM

Lab ID: 2310E27-009

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/3/2023 4:53:40 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/3/2023 4:53:40 AM
Surr: DNOP	102	69-147		%Rec	1	11/3/2023 4:53:40 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/4/2023 6:44:48 AM
Surr: BFB	91.5	15-244		%Rec	1	11/4/2023 6:44:48 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/4/2023 6:44:48 AM
Toluene	ND	0.046		mg/Kg	1	11/4/2023 6:44:48 AM
Ethylbenzene	ND	0.046		mg/Kg	1	11/4/2023 6:44:48 AM
Xylenes, Total	ND	0.092		mg/Kg	1	11/4/2023 6:44:48 AM
Surr: 4-Bromofluorobenzene	96.7	39.1-146		%Rec	1	11/4/2023 6:44:48 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/3/2023 2:32:26 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E27

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-26 2'

Project: Gaucho Unit 6H

Collection Date: 10/28/2023 11:15:00 AM

Lab ID: 2310E27-010

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/3/2023 5:04:14 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2023 5:04:14 AM
Surr: DNOP	99.9	69-147		%Rec	1	11/3/2023 5:04:14 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2023 7:08:08 AM
Surr: BFB	90.6	15-244		%Rec	1	11/4/2023 7:08:08 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/4/2023 7:08:08 AM
Toluene	ND	0.048		mg/Kg	1	11/4/2023 7:08:08 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2023 7:08:08 AM
Xylenes, Total	ND	0.095		mg/Kg	1	11/4/2023 7:08:08 AM
Surr: 4-Bromofluorobenzene	96.3	39.1-146		%Rec	1	11/4/2023 7:08:08 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/3/2023 2:44:51 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E27

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-27 0'

Project: Gaucho Unit 6H

Collection Date: 10/28/2023 11:25:00 AM

Lab ID: 2310E27-011

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	11	9.3		mg/Kg	1	11/3/2023 5:14:49 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/3/2023 5:14:49 AM
Surr: DNOP	103	69-147		%Rec	1	11/3/2023 5:14:49 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2023 7:31:24 AM
Surr: BFB	90.1	15-244		%Rec	1	11/4/2023 7:31:24 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/4/2023 7:31:24 AM
Toluene	ND	0.048		mg/Kg	1	11/4/2023 7:31:24 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2023 7:31:24 AM
Xylenes, Total	ND	0.095		mg/Kg	1	11/4/2023 7:31:24 AM
Surr: 4-Bromofluorobenzene	95.9	39.1-146		%Rec	1	11/4/2023 7:31:24 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	5900	300		mg/Kg	100	11/6/2023 11:27:04 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E27

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-27 2'

Project: Gaucho Unit 6H

Collection Date: 10/28/2023 11:30:00 AM

Lab ID: 2310E27-012

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/3/2023 3:38:00 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/3/2023 3:38:00 AM
Surr: DNOP	91.3	69-147		%Rec	1	11/3/2023 3:38:00 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2023 9:52:26 AM
Surr: BFB	93.7	15-244		%Rec	1	11/4/2023 9:52:26 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/4/2023 9:52:26 AM
Toluene	ND	0.048		mg/Kg	1	11/4/2023 9:52:26 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2023 9:52:26 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/4/2023 9:52:26 AM
Surr: 4-Bromofluorobenzene	98.3	39.1-146		%Rec	1	11/4/2023 9:52:26 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	130	60		mg/Kg	20	11/3/2023 3:09:39 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E27

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-28 0'

Project: Gaucho Unit 6H

Collection Date: 10/28/2023 11:45:00 AM

Lab ID: 2310E27-013

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/3/2023 4:01:28 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2023 4:01:28 AM
Surr: DNOP	90.1	69-147		%Rec	1	11/3/2023 4:01:28 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/4/2023 11:03:11 AM
Surr: BFB	93.9	15-244		%Rec	1	11/4/2023 11:03:11 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/4/2023 11:03:11 AM
Toluene	ND	0.047		mg/Kg	1	11/4/2023 11:03:11 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/4/2023 11:03:11 AM
Xylenes, Total	ND	0.094		mg/Kg	1	11/4/2023 11:03:11 AM
Surr: 4-Bromofluorobenzene	98.4	39.1-146		%Rec	1	11/4/2023 11:03:11 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	64	59		mg/Kg	20	11/3/2023 3:22:04 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E27

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-28 2'

Project: Gaucho Unit 6H

Collection Date: 10/28/2023 12:00:00 PM

Lab ID: 2310E27-014

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/3/2023 4:24:57 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2023 4:24:57 AM
Surr: DNOP	89.9	69-147		%Rec	1	11/3/2023 4:24:57 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/4/2023 12:14:07 PM
Surr: BFB	94.8	15-244		%Rec	1	11/4/2023 12:14:07 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/4/2023 12:14:07 PM
Toluene	ND	0.050		mg/Kg	1	11/4/2023 12:14:07 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/4/2023 12:14:07 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/4/2023 12:14:07 PM
Surr: 4-Bromofluorobenzene	99.0	39.1-146		%Rec	1	11/4/2023 12:14:07 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/3/2023 3:34:28 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E27

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-29 0'

Project: Gaucho Unit 6H

Collection Date: 10/28/2023 12:10:00 PM

Lab ID: 2310E27-015

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	17	9.3		mg/Kg	1	11/3/2023 4:48:22 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/3/2023 4:48:22 AM
Surr: DNOP	92.0	69-147		%Rec	1	11/3/2023 4:48:22 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/4/2023 12:37:43 PM
Surr: BFB	94.8	15-244		%Rec	1	11/4/2023 12:37:43 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/4/2023 12:37:43 PM
Toluene	ND	0.050		mg/Kg	1	11/4/2023 12:37:43 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/4/2023 12:37:43 PM
Xylenes, Total	ND	0.099		mg/Kg	1	11/4/2023 12:37:43 PM
Surr: 4-Bromofluorobenzene	99.3	39.1-146		%Rec	1	11/4/2023 12:37:43 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/3/2023 3:46:52 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E27

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-29 2'

Project: Gaucho Unit 6H

Collection Date: 10/28/2023 12:15:00 PM

Lab ID: 2310E27-016

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/3/2023 5:11:52 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2023 5:11:52 AM
Surr: DNOP	89.4	69-147		%Rec	1	11/3/2023 5:11:52 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/4/2023 1:01:26 PM
Surr: BFB	94.0	15-244		%Rec	1	11/4/2023 1:01:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/4/2023 1:01:26 PM
Toluene	ND	0.047		mg/Kg	1	11/4/2023 1:01:26 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/4/2023 1:01:26 PM
Xylenes, Total	ND	0.094		mg/Kg	1	11/4/2023 1:01:26 PM
Surr: 4-Bromofluorobenzene	97.5	39.1-146		%Rec	1	11/4/2023 1:01:26 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/3/2023 5:34:18 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E27

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-30 0'

Project: Gaucho Unit 6H

Collection Date: 10/28/2023 12:30:00 PM

Lab ID: 2310E27-017

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/3/2023 5:35:43 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/3/2023 5:35:43 AM
Surr: DNOP	95.5	69-147		%Rec	1	11/3/2023 5:35:43 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/4/2023 1:25:12 PM
Surr: BFB	94.2	15-244		%Rec	1	11/4/2023 1:25:12 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/4/2023 1:25:12 PM
Toluene	ND	0.046		mg/Kg	1	11/4/2023 1:25:12 PM
Ethylbenzene	ND	0.046		mg/Kg	1	11/4/2023 1:25:12 PM
Xylenes, Total	ND	0.093		mg/Kg	1	11/4/2023 1:25:12 PM
Surr: 4-Bromofluorobenzene	98.8	39.1-146		%Rec	1	11/4/2023 1:25:12 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	100	60		mg/Kg	20	11/3/2023 6:36:23 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E27

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-30 2'

Project: Gaucho Unit 6H

Collection Date: 10/28/2023 12:35:00 PM

Lab ID: 2310E27-018

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/3/2023 5:59:34 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/3/2023 5:59:34 AM
Surr: DNOP	91.2	69-147		%Rec	1	11/3/2023 5:59:34 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/4/2023 1:48:57 PM
Surr: BFB	93.6	15-244		%Rec	1	11/4/2023 1:48:57 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/4/2023 1:48:57 PM
Toluene	ND	0.046		mg/Kg	1	11/4/2023 1:48:57 PM
Ethylbenzene	ND	0.046		mg/Kg	1	11/4/2023 1:48:57 PM
Xylenes, Total	ND	0.092		mg/Kg	1	11/4/2023 1:48:57 PM
Surr: 4-Bromofluorobenzene	97.1	39.1-146		%Rec	1	11/4/2023 1:48:57 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/3/2023 7:13:36 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2310E27

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-31 0'

Project: Gaucho Unit 6H

Collection Date: 10/28/2023 12:40:00 PM

Lab ID: 2310E27-019

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/3/2023 6:23:16 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2023 6:23:16 AM
Surr: DNOP	93.4	69-147		%Rec	1	11/3/2023 6:23:16 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/4/2023 2:12:40 PM
Surr: BFB	93.6	15-244		%Rec	1	11/4/2023 2:12:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/4/2023 2:12:40 PM
Toluene	ND	0.049		mg/Kg	1	11/4/2023 2:12:40 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/4/2023 2:12:40 PM
Xylenes, Total	ND	0.099		mg/Kg	1	11/4/2023 2:12:40 PM
Surr: 4-Bromofluorobenzene	96.8	39.1-146		%Rec	1	11/4/2023 2:12:40 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	7200	300		mg/Kg	100	11/6/2023 12:53:46 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E27

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-31 2'

Project: Gaucho Unit 6H

Collection Date: 10/28/2023 12:45:00 PM

Lab ID: 2310E27-020

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/3/2023 6:47:08 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/3/2023 6:47:08 AM
Surr: DNOP	91.0	69-147		%Rec	1	11/3/2023 6:47:08 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/4/2023 2:36:22 PM
Surr: BFB	95.4	15-244		%Rec	1	11/4/2023 2:36:22 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/4/2023 2:36:22 PM
Toluene	ND	0.049		mg/Kg	1	11/4/2023 2:36:22 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/4/2023 2:36:22 PM
Xylenes, Total	ND	0.099		mg/Kg	1	11/4/2023 2:36:22 PM
Surr: 4-Bromofluorobenzene	99.2	39.1-146		%Rec	1	11/4/2023 2:36:22 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/3/2023 7:38:26 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E27

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-32 0'

Project: Gaucho Unit 6H

Collection Date: 10/28/2023 1:10:00 PM

Lab ID: 2310E27-021

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/3/2023 7:34:39 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/3/2023 7:34:39 AM
Surr: DNOP	87.1	69-147		%Rec	1	11/3/2023 7:34:39 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/4/2023 3:00:04 PM
Surr: BFB	95.7	15-244		%Rec	1	11/4/2023 3:00:04 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/4/2023 3:00:04 PM
Toluene	ND	0.047		mg/Kg	1	11/4/2023 3:00:04 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/4/2023 3:00:04 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/4/2023 3:00:04 PM
Surr: 4-Bromofluorobenzene	99.5	39.1-146		%Rec	1	11/4/2023 3:00:04 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/3/2023 7:50:50 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E27

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-32 2'

Project: Gaucho Unit 6H

Collection Date: 10/28/2023 1:45:00 PM

Lab ID: 2310E27-022

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/3/2023 7:58:30 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2023 7:58:30 AM
Surr: DNOP	91.0	69-147		%Rec	1	11/3/2023 7:58:30 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/4/2023 3:47:09 PM
Surr: BFB	92.3	15-244		%Rec	1	11/4/2023 3:47:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/4/2023 3:47:09 PM
Toluene	ND	0.046		mg/Kg	1	11/4/2023 3:47:09 PM
Ethylbenzene	ND	0.046		mg/Kg	1	11/4/2023 3:47:09 PM
Xylenes, Total	ND	0.092		mg/Kg	1	11/4/2023 3:47:09 PM
Surr: 4-Bromofluorobenzene	96.0	39.1-146		%Rec	1	11/4/2023 3:47:09 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/3/2023 8:03:14 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E27

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-33 0'

Project: Gaucho Unit 6H

Collection Date: 10/28/2023 1:20:00 PM

Lab ID: 2310E27-023

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/3/2023 8:22:18 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/3/2023 8:22:18 AM
Surr: DNOP	90.8	69-147		%Rec	1	11/3/2023 8:22:18 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2023 4:10:38 PM
Surr: BFB	94.0	15-244		%Rec	1	11/4/2023 4:10:38 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/4/2023 4:10:38 PM
Toluene	ND	0.048		mg/Kg	1	11/4/2023 4:10:38 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2023 4:10:38 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/4/2023 4:10:38 PM
Surr: 4-Bromofluorobenzene	97.0	39.1-146		%Rec	1	11/4/2023 4:10:38 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/3/2023 8:15:39 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310E27

Date Reported: 11/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-33 2'

Project: Gaucho Unit 6H

Collection Date: 10/28/2023 1:25:00 PM

Lab ID: 2310E27-024

Matrix: SOIL

Received Date: 11/1/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/3/2023 8:46:13 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2023 8:46:13 AM
Surr: DNOP	88.4	69-147		%Rec	1	11/3/2023 8:46:13 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2023 4:34:11 PM
Surr: BFB	91.7	15-244		%Rec	1	11/4/2023 4:34:11 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/4/2023 4:34:11 PM
Toluene	ND	0.048		mg/Kg	1	11/4/2023 4:34:11 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2023 4:34:11 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/4/2023 4:34:11 PM
Surr: 4-Bromofluorobenzene	95.9	39.1-146		%Rec	1	11/4/2023 4:34:11 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/3/2023 8:28:03 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310E27

13-Nov-23

Client: Vertex Resources Services, Inc.**Project:** Gaucho Unit 6H

Sample ID: MB-78551	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 78551		RunNo: 100947							
Prep Date: 11/3/2023	Analysis Date: 11/3/2023		SeqNo: 3705446		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78551	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 78551		RunNo: 100947							
Prep Date: 11/3/2023	Analysis Date: 11/3/2023		SeqNo: 3705447		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.2	90	110			

Sample ID: MB-78564	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 78564		RunNo: 100959							
Prep Date: 11/3/2023	Analysis Date: 11/3/2023		SeqNo: 3705638		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: MB-78564	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 78564		RunNo: 100987							
Prep Date: 11/3/2023	Analysis Date: 11/6/2023		SeqNo: 3706675		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78564	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 78564		RunNo: 100987							
Prep Date: 11/3/2023	Analysis Date: 11/6/2023		SeqNo: 3706676		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310E27

13-Nov-23

Client: Vertex Resources Services, Inc.

Project: Gaucho Unit 6H

Sample ID: 2310E27-011AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH23-27 0'	Batch ID: 78531	RunNo: 100922								
Prep Date: 11/2/2023	Analysis Date: 11/3/2023	SeqNo: 3703673 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.5	47.26	10.85	75.2	54.2	135			
Surr: DNOP	5.5		4.726		116	69	147			

Sample ID: 2310E27-011AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH23-27 0'	Batch ID: 78531	RunNo: 100922								
Prep Date: 11/2/2023	Analysis Date: 11/3/2023	SeqNo: 3703674 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.7	48.69	10.85	76.2	54.2	135	3.26	29.2	
Surr: DNOP	5.6		4.869		115	69	147	0	0	

Sample ID: LCS-78531	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78531	RunNo: 100922								
Prep Date: 11/2/2023	Analysis Date: 11/3/2023	SeqNo: 3703678 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.0	61.9	130			
Surr: DNOP	4.9		5.000		98.2	69	147			

Sample ID: MB-78531	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78531	RunNo: 100922								
Prep Date: 11/2/2023	Analysis Date: 11/3/2023	SeqNo: 3703682 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		94.5	69	147			

Sample ID: MB-78523	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78523	RunNo: 100939								
Prep Date: 11/2/2023	Analysis Date: 11/3/2023	SeqNo: 3704532 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		89.0	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310E27

13-Nov-23

Client: Vertex Resources Services, Inc.

Project: Gaucho Unit 6H

Sample ID: LCS-78523	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78523	RunNo: 100939								
Prep Date: 11/2/2023	Analysis Date: 11/3/2023	SeqNo: 3704533		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	61.9	130			
Surr: DNOP	4.6		5.000		91.2	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310E27

13-Nov-23

Client: Vertex Resources Services, Inc.

Project: Gaucho Unit 6H

Sample ID: ics-78506	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 78506			RunNo: 100932						
Prep Date: 11/1/2023	Analysis Date: 11/3/2023			SeqNo: 3704767		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.1	70	130			
Surr: BFB	2000		1000		196	15	244			

Sample ID: ics-78511	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 78511			RunNo: 100932						
Prep Date: 11/1/2023	Analysis Date: 11/4/2023			SeqNo: 3704768		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	84.1	70	130			
Surr: BFB	2000		1000		195	15	244			

Sample ID: mb-78506	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 78506			RunNo: 100932						
Prep Date: 11/1/2023	Analysis Date: 11/3/2023			SeqNo: 3704769		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		94.3	15	244			

Sample ID: mb-78511	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 78511			RunNo: 100932						
Prep Date: 11/1/2023	Analysis Date: 11/4/2023			SeqNo: 3704770		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		94.5	15	244			

Sample ID: 2310e27-012ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH23-27 2'	Batch ID: 78511			RunNo: 100932						
Prep Date: 11/1/2023	Analysis Date: 11/4/2023			SeqNo: 3704794		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.7	23.74	0	89.3	70	130			
Surr: BFB	1900		949.7		201	15	244			

Sample ID: 2310e27-012amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH23-27 2'	Batch ID: 78511			RunNo: 100932						
Prep Date: 11/1/2023	Analysis Date: 11/4/2023			SeqNo: 3704795		Units: mg/Kg				
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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310E27

13-Nov-23

Client: Vertex Resources Services, Inc.

Project: Gaucho Unit 6H

Sample ID: 2310e27-012amsd		SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH23-27 2'		Batch ID: 78511			RunNo: 100932					
Prep Date: 11/1/2023		Analysis Date: 11/4/2023			SeqNo: 3704795		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.8	23.79	0	88.3	70	130	0.936	20	
Surr: BFB	1900		951.5		203	15	244	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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310E27

13-Nov-23

Client: Vertex Resources Services, Inc.

Project: Gaucho Unit 6H

Sample ID: LCS-78506	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 78506		RunNo: 100932							
Prep Date: 11/1/2023	Analysis Date: 11/3/2023		SeqNo: 3704821		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	83.9	70	130			
Toluene	0.88	0.050	1.000	0	88.1	70	130			
Ethylbenzene	0.90	0.050	1.000	0	89.7	70	130			
Xylenes, Total	2.7	0.10	3.000	0	90.0	70	130			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.2	39.1	146			

Sample ID: LCS-78511	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 78511		RunNo: 100932							
Prep Date: 11/1/2023	Analysis Date: 11/4/2023		SeqNo: 3704822		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	83.0	70	130			
Toluene	0.87	0.050	1.000	0	87.1	70	130			
Ethylbenzene	0.88	0.050	1.000	0	88.3	70	130			
Xylenes, Total	2.7	0.10	3.000	0	88.7	70	130			
Surr: 4-Bromofluorobenzene	0.99		1.000		99.2	39.1	146			

Sample ID: mb-78506	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 78506		RunNo: 100932							
Prep Date: 11/1/2023	Analysis Date: 11/3/2023		SeqNo: 3704823		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	39.1	146			

Sample ID: mb-78511	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 78511		RunNo: 100932							
Prep Date: 11/1/2023	Analysis Date: 11/4/2023		SeqNo: 3704824		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		98.6	39.1	146			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310E27

13-Nov-23

Client: Vertex Resources Services, Inc.**Project:** Gaucho Unit 6H

Sample ID: 2310e27-013ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH23-28 0'	Batch ID: 78511	RunNo: 100932								
Prep Date: 11/1/2023	Analysis Date: 11/4/2023	SeqNo: 3704849	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.023	0.9363	0	87.8	70	130			
Toluene	0.87	0.047	0.9363	0	93.1	70	130			
Ethylbenzene	0.89	0.047	0.9363	0	95.3	70	130			
Xylenes, Total	2.7	0.094	2.809	0	95.5	70	130			
Surr: 4-Bromofluorobenzene	0.93		0.9363		99.8	39.1	146			

Sample ID: 2310e27-013amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH23-28 0'	Batch ID: 78511	RunNo: 100932								
Prep Date: 11/1/2023	Analysis Date: 11/4/2023	SeqNo: 3704850	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.024	0.9470	0	87.6	70	130	0.811	20	
Toluene	0.89	0.047	0.9470	0	93.8	70	130	1.91	20	
Ethylbenzene	0.90	0.047	0.9470	0	95.5	70	130	1.31	20	
Xylenes, Total	2.7	0.095	2.841	0	96.2	70	130	1.83	20	
Surr: 4-Bromofluorobenzene	0.94		0.9470		99.2	39.1	146	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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 31 of 31



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

Sample Log-In Check List

Client Name: Vertex Resources
Services, Inc.

Work Order Number: 2310E27

RcptNo: 1

Received By: Juan Rojas 11/1/2023 8:35:00 AM

Completed By: Cheyenne Cason 11/1/2023 9:11:16 AM

Reviewed By:

[Signature]

[Signature]

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 $>0^{\circ}\text{C}$ 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: 7/11/23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Erin C.

Date:

By Whom:

Tracy Casarubias

Via:

☐ eMail

☒ Phone

☐ Fax

☐ In Person

Regarding:

Collection time discrepancy

Client Instructions:

Client confirmed that the label on bottle was accurate.

16. Additional remarks: Moving forward with "10:00" collection time per E.C. - time 11/1/23

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.3	Good	Not Present	Morty		
2	0.5	Good	Not Present	Morty		

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Client: **Vertex**

(direct bill to Devon, work order 21222677)

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:	
<input type="checkbox"/> Standard	<input checked="" type="checkbox"/> Rush_72-hour rush
Project Name:	
Gaucho Unit 6H	
Project #:	
23E-05499	
Project Manager:	
Kent Stallings	
kstallings@vertex.ca	
Sampler: A. Castro	
On Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
# of Coolers:	2

Date	Time	Matrix	Sample Name	Cooler Temp(Including CF): 0.4-0.1-0.3		BTEX / MT	TPH:8015DD	8081 Pesticide	EDB (Meth)	PAHs by 8	RCRA 8 M	Cl, F, Br, I	8260 (VOA)	8270 (Sem)	Total Coliform																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time	Remarks: Direct bill to Devon work order 21222677 Dale Woodall cc. KStallings@vertex.ca, SMcCarty@vertex.ca for Final Report
10-31-22	07:00	<i>[Signature]</i>	<i>[Signature]</i>		10/31/23	07:00	
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time	1/2
10/31/23	1900	<i>[Signature]</i>	<i>[Signature]</i>		11/1/23	8:35	

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, work order 21222677)

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:

☐ Standard ☒ Rush_72-hour rush

Project Name:

Gaucha Unit 6H

Project #:

23E-05499

Project Manager:

Kent Stallings

kstallings@vertex.ca

Sampler: A. Castro

On Ice: ☐ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF):

Container
Type and #Preservative
Type

HEAL No.

Date Time Matrix Sample Name

10/28/23	11:45	Soil	BH23-28 0'
10/28/23	12:00	Soil	BH23-28 2'
10/28/23	12:10	Soil	BH23-29 0'
10/28/23	12:15	Soil	BH23-29 2'
10/28/23	12:30	Soil	BH23-30 0'
10/28/23	12:35	Soil	BH23-30 2'
10/28/23	12:40	Soil	BH23-31 0'
10/28/23	12:45	Soil	BH23-31 2'
10/28/23	13:10	Soil	BH23-32 0'
10/28/23	13:15	Soil	BH23-32 2'
10/28/23	13:20	Soil	BH23-33 0'
10/28/23	13:25	Soil	BH23-33 2'

1, 4oz jar

013

1, 4oz jar

014

1, 4oz jar

015

1, 4oz jar

016

1, 4oz jar

017

1, 4oz jar

018

1, 4oz jar

019

1, 4oz jar

020

1, 4oz jar

021

1, 4oz jar

022

1, 4oz jar

023

1, 4oz jar

024

Received by: Via: Date Time

10/31/23 0700

Received by: Via: Date Time

11/1/23 8:35

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 ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)										
X	X					X													
X	X					X													
X	X					X													
X	X					X													
X	X					X													
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X	X					X													
X	X					X													

Date: Time: Relinquished by:

10/31/23 07:00 [Signature]

Date: Time: Relinquished by:

11/1/23 1900 [Signature]

Received by: Via: Date Time

10/31/23 0700

Received by: Via: Date Time

11/1/23 8:35

Remarks:

Direct bill to Devon work order 21222677 Dale Woodall
cc. KStallings@vertex.ca, SMcCarty@vertex.ca for Final
Report

2/2

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.



Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 22, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL:

FAX:

RE: Gaucho Unit 006H

OrderNo.: 2311069

Dear Kent Stallings:

Eurofins Environment Testing South Central, LLC received 34 sample(s) on 11/2/2023 for the analyses presented in the following report.

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

Please do not hesitate to contact Eurofins Albuquerque 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".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-39 0'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 10:20:00 AM

Lab ID: 2311069-001

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/6/2023 10:57:03 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/6/2023 10:57:03 AM
Surr: DNOP	97.6	69-147		%Rec	1	11/6/2023 10:57:03 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/7/2023 5:38:00 PM
Surr: BFB	101	15-244		%Rec	1	11/7/2023 5:38:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/7/2023 5:38:00 PM
Toluene	ND	0.048		mg/Kg	1	11/7/2023 5:38:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/7/2023 5:38:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/7/2023 5:38:00 PM
Surr: 4-Bromofluorobenzene	84.4	39.1-146		%Rec	1	11/7/2023 5:38:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	63	60		mg/Kg	20	11/7/2023 5:09:47 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-39 2'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 10:25:00 AM

Lab ID: 2311069-002

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/6/2023 11:07:45 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/6/2023 11:07:45 AM
Surr: DNOP	102	69-147		%Rec	1	11/6/2023 11:07:45 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/7/2023 6:00:00 PM
Surr: BFB	96.9	15-244		%Rec	1	11/7/2023 6:00:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.023		mg/Kg	1	11/7/2023 6:00:00 PM
Toluene	ND	0.046		mg/Kg	1	11/7/2023 6:00:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	11/7/2023 6:00:00 PM
Xylenes, Total	ND	0.092		mg/Kg	1	11/7/2023 6:00:00 PM
Surr: 4-Bromofluorobenzene	81.8	39.1-146		%Rec	1	11/7/2023 6:00:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/7/2023 5:22:12 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-40 0'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 10:40:00 AM

Lab ID: 2311069-003

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/6/2023 11:18:28 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/6/2023 11:18:28 AM
Surr: DNOP	109	69-147		%Rec	1	11/6/2023 11:18:28 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/7/2023 6:22:00 PM
Surr: BFB	103	15-244		%Rec	1	11/7/2023 6:22:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	11/7/2023 6:22:00 PM
Toluene	ND	0.049		mg/Kg	1	11/7/2023 6:22:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/7/2023 6:22:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	11/7/2023 6:22:00 PM
Surr: 4-Bromofluorobenzene	84.0	39.1-146		%Rec	1	11/7/2023 6:22:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/7/2023 5:34:36 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-40 2'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 10:45:00 AM

Lab ID: 2311069-004

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/6/2023 11:29:11 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/6/2023 11:29:11 AM
Surr: DNOP	103	69-147		%Rec	1	11/6/2023 11:29:11 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/7/2023 6:43:00 PM
Surr: BFB	97.6	15-244		%Rec	1	11/7/2023 6:43:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.023		mg/Kg	1	11/7/2023 6:43:00 PM
Toluene	ND	0.047		mg/Kg	1	11/7/2023 6:43:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/7/2023 6:43:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	11/7/2023 6:43:00 PM
Surr: 4-Bromofluorobenzene	82.0	39.1-146		%Rec	1	11/7/2023 6:43:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/7/2023 5:47:01 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-41 0'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 10:48:00 AM

Lab ID: 2311069-005

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	13	9.6		mg/Kg	1	11/6/2023 11:39:58 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/6/2023 11:39:58 AM
Surr: DNOP	106	69-147		%Rec	1	11/6/2023 11:39:58 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/7/2023 7:05:00 PM
Surr: BFB	100	15-244		%Rec	1	11/7/2023 7:05:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.023		mg/Kg	1	11/7/2023 7:05:00 PM
Toluene	ND	0.046		mg/Kg	1	11/7/2023 7:05:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	11/7/2023 7:05:00 PM
Xylenes, Total	ND	0.092		mg/Kg	1	11/7/2023 7:05:00 PM
Surr: 4-Bromofluorobenzene	84.0	39.1-146		%Rec	1	11/7/2023 7:05:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	63	60		mg/Kg	20	11/8/2023 4:45:31 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-41 2'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 10:51:00 AM

Lab ID: 2311069-006

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/6/2023 11:50:43 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/6/2023 11:50:43 AM
Surr: DNOP	99.7	69-147		%Rec	1	11/6/2023 11:50:43 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/7/2023 7:26:00 PM
Surr: BFB	103	15-244		%Rec	1	11/7/2023 7:26:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/7/2023 7:26:00 PM
Toluene	ND	0.047		mg/Kg	1	11/7/2023 7:26:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/7/2023 7:26:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/7/2023 7:26:00 PM
Surr: 4-Bromofluorobenzene	82.8	39.1-146		%Rec	1	11/7/2023 7:26:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	61	60		mg/Kg	20	11/7/2023 7:26:17 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-42 0'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 10:55:00 AM

Lab ID: 2311069-007

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/6/2023 12:01:29 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/6/2023 12:01:29 PM
Surr: DNOP	96.9	69-147		%Rec	1	11/6/2023 12:01:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/7/2023 7:48:00 PM
Surr: BFB	99.7	15-244		%Rec	1	11/7/2023 7:48:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	11/7/2023 7:48:00 PM
Toluene	ND	0.049		mg/Kg	1	11/7/2023 7:48:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/7/2023 7:48:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/7/2023 7:48:00 PM
Surr: 4-Bromofluorobenzene	84.4	39.1-146		%Rec	1	11/7/2023 7:48:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/8/2023 4:57:55 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-42 2'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 11:11:00 AM

Lab ID: 2311069-008

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/6/2023 12:12:17 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/6/2023 12:12:17 PM
Surr: DNOP	99.4	69-147		%Rec	1	11/6/2023 12:12:17 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/7/2023 8:10:00 PM
Surr: BFB	101	15-244		%Rec	1	11/7/2023 8:10:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.023		mg/Kg	1	11/7/2023 8:10:00 PM
Toluene	ND	0.047		mg/Kg	1	11/7/2023 8:10:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/7/2023 8:10:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	11/7/2023 8:10:00 PM
Surr: 4-Bromofluorobenzene	87.0	39.1-146		%Rec	1	11/7/2023 8:10:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	74	60		mg/Kg	20	11/7/2023 8:15:55 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-43 0'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 10:56:00 AM

Lab ID: 2311069-009

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	12	9.4		mg/Kg	1	11/6/2023 12:23:07 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/6/2023 12:23:07 PM
Surr: DNOP	104	69-147		%Rec	1	11/6/2023 12:23:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/7/2023 8:54:00 PM
Surr: BFB	97.3	15-244		%Rec	1	11/7/2023 8:54:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/7/2023 8:54:00 PM
Toluene	ND	0.047		mg/Kg	1	11/7/2023 8:54:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/7/2023 8:54:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/7/2023 8:54:00 PM
Surr: 4-Bromofluorobenzene	84.9	39.1-146		%Rec	1	11/7/2023 8:54:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/7/2023 8:53:10 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-43 2'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 10:59:00 AM

Lab ID: 2311069-010

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/6/2023 12:33:56 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/6/2023 12:33:56 PM
Surr: DNOP	98.4	69-147		%Rec	1	11/6/2023 12:33:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/7/2023 9:15:00 PM
Surr: BFB	100	15-244		%Rec	1	11/7/2023 9:15:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	11/7/2023 9:15:00 PM
Toluene	ND	0.049		mg/Kg	1	11/7/2023 9:15:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/7/2023 9:15:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	11/7/2023 9:15:00 PM
Surr: 4-Bromofluorobenzene	86.5	39.1-146		%Rec	1	11/7/2023 9:15:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/8/2023 5:10:19 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-44 0'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 11:05:00 AM

Lab ID: 2311069-011

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/6/2023 12:44:41 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/6/2023 12:44:41 PM
Surr: DNOP	101	69-147		%Rec	1	11/6/2023 12:44:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/7/2023 9:37:00 PM
Surr: BFB	101	15-244		%Rec	1	11/7/2023 9:37:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/7/2023 9:37:00 PM
Toluene	ND	0.047		mg/Kg	1	11/7/2023 9:37:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/7/2023 9:37:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	11/7/2023 9:37:00 PM
Surr: 4-Bromofluorobenzene	84.1	39.1-146		%Rec	1	11/7/2023 9:37:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/8/2023 5:22:44 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-44 2'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 11:10:00 AM

Lab ID: 2311069-012

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/6/2023 12:55:25 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/6/2023 12:55:25 PM
Surr: DNOP	99.3	69-147		%Rec	1	11/6/2023 12:55:25 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/7/2023 9:59:00 PM
Surr: BFB	99.1	15-244		%Rec	1	11/7/2023 9:59:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/7/2023 9:59:00 PM
Toluene	ND	0.048		mg/Kg	1	11/7/2023 9:59:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/7/2023 9:59:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/7/2023 9:59:00 PM
Surr: 4-Bromofluorobenzene	82.9	39.1-146		%Rec	1	11/7/2023 9:59:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/7/2023 9:30:23 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-45 0'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 11:02:00 AM

Lab ID: 2311069-013

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/6/2023 1:06:12 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/6/2023 1:06:12 PM
Surr: DNOP	108	69-147		%Rec	1	11/6/2023 1:06:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/7/2023 10:20:00 PM
Surr: BFB	99.4	15-244		%Rec	1	11/7/2023 10:20:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.023		mg/Kg	1	11/7/2023 10:20:00 PM
Toluene	ND	0.046		mg/Kg	1	11/7/2023 10:20:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	11/7/2023 10:20:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	11/7/2023 10:20:00 PM
Surr: 4-Bromofluorobenzene	82.5	39.1-146		%Rec	1	11/7/2023 10:20:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/7/2023 9:42:48 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-45 2'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 11:05:00 AM

Lab ID: 2311069-014

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/6/2023 1:16:57 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/6/2023 1:16:57 PM
Surr: DNOP	109	69-147		%Rec	1	11/6/2023 1:16:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/7/2023 10:42:00 PM
Surr: BFB	97.4	15-244		%Rec	1	11/7/2023 10:42:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/7/2023 10:42:00 PM
Toluene	ND	0.049		mg/Kg	1	11/7/2023 10:42:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/7/2023 10:42:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/7/2023 10:42:00 PM
Surr: 4-Bromofluorobenzene	82.6	39.1-146		%Rec	1	11/7/2023 10:42:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/7/2023 9:55:13 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-46 0'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 11:25:00 AM

Lab ID: 2311069-015

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/6/2023 1:27:54 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/6/2023 1:27:54 PM
Surr: DNOP	93.5	69-147		%Rec	1	11/6/2023 1:27:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/7/2023 11:04:00 PM
Surr: BFB	101	15-244		%Rec	1	11/7/2023 11:04:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/7/2023 11:04:00 PM
Toluene	ND	0.048		mg/Kg	1	11/7/2023 11:04:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/7/2023 11:04:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/7/2023 11:04:00 PM
Surr: 4-Bromofluorobenzene	83.8	39.1-146		%Rec	1	11/7/2023 11:04:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/8/2023 5:35:09 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-46 2'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 11:30:00 AM

Lab ID: 2311069-016

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/6/2023 1:52:21 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/6/2023 1:52:21 PM
Surr: DNOP	92.3	69-147		%Rec	1	11/6/2023 1:52:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/7/2023 11:25:00 PM
Surr: BFB	98.1	15-244		%Rec	1	11/7/2023 11:25:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.023		mg/Kg	1	11/7/2023 11:25:00 PM
Toluene	ND	0.047		mg/Kg	1	11/7/2023 11:25:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/7/2023 11:25:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	11/7/2023 11:25:00 PM
Surr: 4-Bromofluorobenzene	84.8	39.1-146		%Rec	1	11/7/2023 11:25:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	130	60		mg/Kg	20	11/7/2023 10:20:02 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-47 0'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 11:07:00 AM

Lab ID: 2311069-017

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/6/2023 2:03:12 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/6/2023 2:03:12 PM
Surr: DNOP	92.9	69-147		%Rec	1	11/6/2023 2:03:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/7/2023 11:47:00 PM
Surr: BFB	103	15-244		%Rec	1	11/7/2023 11:47:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	11/7/2023 11:47:00 PM
Toluene	ND	0.048		mg/Kg	1	11/7/2023 11:47:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/7/2023 11:47:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/7/2023 11:47:00 PM
Surr: 4-Bromofluorobenzene	86.6	39.1-146		%Rec	1	11/7/2023 11:47:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/7/2023 10:32:27 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-47 2'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 11:16:00 AM

Lab ID: 2311069-018

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/6/2023 2:24:42 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/6/2023 2:24:42 PM
Surr: DNOP	91.1	69-147		%Rec	1	11/6/2023 2:24:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/8/2023 12:09:00 AM
Surr: BFB	101	15-244		%Rec	1	11/8/2023 12:09:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	11/8/2023 12:09:00 AM
Toluene	ND	0.050		mg/Kg	1	11/8/2023 12:09:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/8/2023 12:09:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	11/8/2023 12:09:00 AM
Surr: 4-Bromofluorobenzene	88.3	39.1-146		%Rec	1	11/8/2023 12:09:00 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/7/2023 10:44:52 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-48 0'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 11:35:00 AM

Lab ID: 2311069-019

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/6/2023 10:27:13 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/6/2023 10:27:13 PM
Surr: DNOP	97.9	69-147		%Rec	1	11/6/2023 10:27:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/8/2023 7:39:40 PM
Surr: BFB	91.5	15-244		%Rec	1	11/8/2023 7:39:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/8/2023 7:39:40 PM
Toluene	ND	0.049		mg/Kg	1	11/8/2023 7:39:40 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/8/2023 7:39:40 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/8/2023 7:39:40 PM
Surr: 4-Bromofluorobenzene	94.6	39.1-146		%Rec	1	11/8/2023 7:39:40 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/8/2023 5:47:34 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-48 2'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 11:40:00 AM

Lab ID: 2311069-020

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/6/2023 10:37:59 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/6/2023 10:37:59 PM
Surr: DNOP	90.9	69-147		%Rec	1	11/6/2023 10:37:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/8/2023 8:03:08 PM
Surr: BFB	94.5	15-244		%Rec	1	11/8/2023 8:03:08 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/8/2023 8:03:08 PM
Toluene	ND	0.049		mg/Kg	1	11/8/2023 8:03:08 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/8/2023 8:03:08 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/8/2023 8:03:08 PM
Surr: 4-Bromofluorobenzene	96.2	39.1-146		%Rec	1	11/8/2023 8:03:08 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	2400	150		mg/Kg	50	11/8/2023 1:39:24 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-49 0'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 11:22:00 AM

Lab ID: 2311069-021

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	11/6/2023 10:48:46 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	11/6/2023 10:48:46 PM
Surr: DNOP	113	69-147		%Rec	1	11/6/2023 10:48:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/8/2023 8:26:42 PM
Surr: BFB	93.2	15-244		%Rec	1	11/8/2023 8:26:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/8/2023 8:26:42 PM
Toluene	ND	0.050		mg/Kg	1	11/8/2023 8:26:42 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/8/2023 8:26:42 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/8/2023 8:26:42 PM
Surr: 4-Bromofluorobenzene	95.9	39.1-146		%Rec	1	11/8/2023 8:26:42 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/7/2023 11:46:55 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-49 2'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 11:25:00 AM

Lab ID: 2311069-022

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	11/6/2023 10:59:32 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	11/6/2023 10:59:32 PM
Surr: DNOP	109	69-147		%Rec	1	11/6/2023 10:59:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/8/2023 8:50:16 PM
Surr: BFB	92.4	15-244		%Rec	1	11/8/2023 8:50:16 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/8/2023 8:50:16 PM
Toluene	ND	0.050		mg/Kg	1	11/8/2023 8:50:16 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/8/2023 8:50:16 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/8/2023 8:50:16 PM
Surr: 4-Bromofluorobenzene	94.8	39.1-146		%Rec	1	11/8/2023 8:50:16 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/7/2023 11:59:19 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-50 0'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 11:45:00 AM

Lab ID: 2311069-023

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/6/2023 11:10:19 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/6/2023 11:10:19 PM
Surr: DNOP	93.2	69-147		%Rec	1	11/6/2023 11:10:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/8/2023 9:13:49 PM
Surr: BFB	92.6	15-244		%Rec	1	11/8/2023 9:13:49 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/8/2023 9:13:49 PM
Toluene	ND	0.049		mg/Kg	1	11/8/2023 9:13:49 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/8/2023 9:13:49 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/8/2023 9:13:49 PM
Surr: 4-Bromofluorobenzene	94.9	39.1-146		%Rec	1	11/8/2023 9:13:49 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/8/2023 12:11:43 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-50 2'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 11:50:00 AM

Lab ID: 2311069-024

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/6/2023 11:21:08 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/6/2023 11:21:08 PM
Surr: DNOP	92.9	69-147		%Rec	1	11/6/2023 11:21:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/9/2023 6:53:49 PM
Surr: BFB	92.4	15-244		%Rec	1	11/9/2023 6:53:49 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/9/2023 6:53:49 PM
Toluene	ND	0.047		mg/Kg	1	11/9/2023 6:53:49 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/9/2023 6:53:49 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/9/2023 6:53:49 PM
Surr: 4-Bromofluorobenzene	95.1	39.1-146		%Rec	1	11/9/2023 6:53:49 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	11/8/2023 12:24:08 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-51 0'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 11:28:00 AM

Lab ID: 2311069-025

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/6/2023 11:31:58 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/6/2023 11:31:58 PM
Surr: DNOP	94.9	69-147		%Rec	1	11/6/2023 11:31:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/9/2023 7:17:22 PM
Surr: BFB	91.0	15-244		%Rec	1	11/9/2023 7:17:22 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/9/2023 7:17:22 PM
Toluene	ND	0.049		mg/Kg	1	11/9/2023 7:17:22 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/9/2023 7:17:22 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/9/2023 7:17:22 PM
Surr: 4-Bromofluorobenzene	93.5	39.1-146		%Rec	1	11/9/2023 7:17:22 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/7/2023 4:51:57 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-51 2'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 11:30:00 AM

Lab ID: 2311069-026

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	11/6/2023 11:42:49 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	11/6/2023 11:42:49 PM
Surr: DNOP	104	69-147		%Rec	1	11/6/2023 11:42:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/9/2023 7:40:54 PM
Surr: BFB	91.3	15-244		%Rec	1	11/9/2023 7:40:54 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/9/2023 7:40:54 PM
Toluene	ND	0.047		mg/Kg	1	11/9/2023 7:40:54 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/9/2023 7:40:54 PM
Xylenes, Total	ND	0.093		mg/Kg	1	11/9/2023 7:40:54 PM
Surr: 4-Bromofluorobenzene	93.2	39.1-146		%Rec	1	11/9/2023 7:40:54 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/7/2023 5:37:22 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-52 0'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 11:44:00 AM

Lab ID: 2311069-027

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	9.6	8.8		mg/Kg	1	11/6/2023 11:53:40 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	11/6/2023 11:53:40 PM
Surr: DNOP	98.9	69-147		%Rec	1	11/6/2023 11:53:40 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/9/2023 8:04:22 PM
Surr: BFB	92.7	15-244		%Rec	1	11/9/2023 8:04:22 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/9/2023 8:04:22 PM
Toluene	ND	0.049		mg/Kg	1	11/9/2023 8:04:22 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/9/2023 8:04:22 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/9/2023 8:04:22 PM
Surr: 4-Bromofluorobenzene	95.5	39.1-146		%Rec	1	11/9/2023 8:04:22 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	2000	60		mg/Kg	20	11/7/2023 6:22:49 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-52 2'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 11:47:00 AM

Lab ID: 2311069-028

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/7/2023 12:04:32 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/7/2023 12:04:32 AM
Surr: DNOP	96.5	69-147		%Rec	1	11/7/2023 12:04:32 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/9/2023 8:27:50 PM
Surr: BFB	92.2	15-244		%Rec	1	11/9/2023 8:27:50 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/9/2023 8:27:50 PM
Toluene	ND	0.048		mg/Kg	1	11/9/2023 8:27:50 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/9/2023 8:27:50 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/9/2023 8:27:50 PM
Surr: 4-Bromofluorobenzene	94.6	39.1-146		%Rec	1	11/9/2023 8:27:50 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	3300	150		mg/Kg	50	11/13/2023 5:06:46 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-52 4'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 2:55:00 PM

Lab ID: 2311069-029

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/6/2023 8:59:35 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/6/2023 8:59:35 PM
Surr: DNOP	82.9	69-147		%Rec	1	11/6/2023 8:59:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/10/2023 11:48:01 AM
Surr: BFB	91.6	15-244		%Rec	1	11/10/2023 11:48:01 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/10/2023 11:48:01 AM
Toluene	ND	0.050		mg/Kg	1	11/10/2023 11:48:01 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/10/2023 11:48:01 AM
Xylenes, Total	ND	0.099		mg/Kg	1	11/10/2023 11:48:01 AM
Surr: 4-Bromofluorobenzene	95.5	39.1-146		%Rec	1	11/10/2023 11:48:01 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	5300	300		mg/Kg	100	11/13/2023 5:19:11 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-52 6'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 3:23:00 PM

Lab ID: 2311069-030

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/6/2023 10:12:11 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/6/2023 10:12:11 PM
Surr: DNOP	89.0	69-147		%Rec	1	11/6/2023 10:12:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/10/2023 12:11:30 PM
Surr: BFB	93.6	15-244		%Rec	1	11/10/2023 12:11:30 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/10/2023 12:11:30 PM
Toluene	ND	0.049		mg/Kg	1	11/10/2023 12:11:30 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/10/2023 12:11:30 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/10/2023 12:11:30 PM
Surr: 4-Bromofluorobenzene	96.7	39.1-146		%Rec	1	11/10/2023 12:11:30 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	7300	300		mg/Kg	100	11/13/2023 5:31:36 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-53 0'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 11:34:00 AM

Lab ID: 2311069-031

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/6/2023 10:36:20 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/6/2023 10:36:20 PM
Surr: DNOP	88.7	69-147		%Rec	1	11/6/2023 10:36:20 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/10/2023 12:34:53 PM
Surr: BFB	91.4	15-244		%Rec	1	11/10/2023 12:34:53 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/10/2023 12:34:53 PM
Toluene	ND	0.047		mg/Kg	1	11/10/2023 12:34:53 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/10/2023 12:34:53 PM
Xylenes, Total	ND	0.094		mg/Kg	1	11/10/2023 12:34:53 PM
Surr: 4-Bromofluorobenzene	95.7	39.1-146		%Rec	1	11/10/2023 12:34:53 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/7/2023 7:53:45 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-53 2'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 11:36:00 AM

Lab ID: 2311069-032

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/6/2023 11:00:32 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/6/2023 11:00:32 PM
Surr: DNOP	87.3	69-147		%Rec	1	11/6/2023 11:00:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/10/2023 12:58:27 PM
Surr: BFB	95.5	15-244		%Rec	1	11/10/2023 12:58:27 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/10/2023 12:58:27 PM
Toluene	ND	0.048		mg/Kg	1	11/10/2023 12:58:27 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/10/2023 12:58:27 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/10/2023 12:58:27 PM
Surr: 4-Bromofluorobenzene	98.4	39.1-146		%Rec	1	11/10/2023 12:58:27 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/7/2023 8:08:54 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-54 0'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 11:40:00 AM

Lab ID: 2311069-033

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	9.6	9.3		mg/Kg	1	11/6/2023 11:24:41 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/6/2023 11:24:41 PM
Surr: DNOP	91.3	69-147		%Rec	1	11/6/2023 11:24:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/10/2023 1:22:07 PM
Surr: BFB	92.3	15-244		%Rec	1	11/10/2023 1:22:07 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/10/2023 1:22:07 PM
Toluene	ND	0.048		mg/Kg	1	11/10/2023 1:22:07 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/10/2023 1:22:07 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/10/2023 1:22:07 PM
Surr: 4-Bromofluorobenzene	96.7	39.1-146		%Rec	1	11/10/2023 1:22:07 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	1600	60		mg/Kg	20	11/7/2023 8:24:04 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311069

Date Reported: 11/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-54 2'

Project: Gaucho Unit 006H

Collection Date: 10/31/2023 11:42:00 AM

Lab ID: 2311069-034

Matrix: SOIL

Received Date: 11/2/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/6/2023 11:48:48 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/6/2023 11:48:48 PM
Surr: DNOP	89.8	69-147		%Rec	1	11/6/2023 11:48:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/10/2023 1:45:26 PM
Surr: BFB	93.9	15-244		%Rec	1	11/10/2023 1:45:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/10/2023 1:45:26 PM
Toluene	ND	0.048		mg/Kg	1	11/10/2023 1:45:26 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/10/2023 1:45:26 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/10/2023 1:45:26 PM
Surr: 4-Bromofluorobenzene	98.6	39.1-146		%Rec	1	11/10/2023 1:45:26 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	2800	150		mg/Kg	50	11/13/2023 5:44:01 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311069

22-Nov-23

Client: Vertex Resources Services, Inc.**Project:** Gaucho Unit 006H

Sample ID: MB-78636	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 78636		RunNo: 101019							
Prep Date: 11/7/2023	Analysis Date: 11/7/2023		SeqNo: 3708458		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78636	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 78636		RunNo: 101019							
Prep Date: 11/7/2023	Analysis Date: 11/7/2023		SeqNo: 3708459		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.8	90	110			

Sample ID: MB-78613	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 78613		RunNo: 101002							
Prep Date: 11/7/2023	Analysis Date: 11/7/2023		SeqNo: 3708614		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78613	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 78613		RunNo: 101002							
Prep Date: 11/7/2023	Analysis Date: 11/7/2023		SeqNo: 3708615		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.0	90	110			

Sample ID: LCS-78623	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 78623		RunNo: 101002							
Prep Date: 11/7/2023	Analysis Date: 11/7/2023		SeqNo: 3708650		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.4	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2311069

22-Nov-23

Client: Vertex Resources Services, Inc.**Project:** Gaucho Unit 006H

Sample ID: LCS-78562	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 78562			RunNo: 100996						
Prep Date: 11/3/2023	Analysis Date: 11/6/2023			SeqNo: 3707248		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.9	61.9	130			
Surr: DNOP	5.5		5.000		110	69	147			

Sample ID: LCS-78588	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 78588			RunNo: 100996						
Prep Date: 11/6/2023	Analysis Date: 11/6/2023			SeqNo: 3707250		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.9	61.9	130			
Surr: DNOP	4.4		5.000		88.2	69	147			

Sample ID: MB-78562	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 78562			RunNo: 100996						
Prep Date: 11/3/2023	Analysis Date: 11/6/2023			SeqNo: 3707251		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		108	69	147			

Sample ID: MB-78588	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 78588			RunNo: 100996						
Prep Date: 11/6/2023	Analysis Date: 11/6/2023			SeqNo: 3707253		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		106	69	147			

Sample ID: MB-78589	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 78589			RunNo: 100997						
Prep Date: 11/6/2023	Analysis Date: 11/6/2023			SeqNo: 3707284		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.3		10.00		82.5	69	147			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311069

22-Nov-23

Client: Vertex Resources Services, Inc.**Project:** Gaucho Unit 006H

Sample ID: LCS-78589	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 78589		RunNo: 100997							
Prep Date: 11/6/2023	Analysis Date: 11/6/2023		SeqNo: 3707285		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	110	61.9	130			
Surr: DNOP	3.9		5.000		78.3	69	147			

Sample ID: 2311069-029AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH23-52 4'	Batch ID: 78589		RunNo: 100997							
Prep Date: 11/6/2023	Analysis Date: 11/6/2023		SeqNo: 3707287		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	9.8	48.92	0	109	54.2	135			
Surr: DNOP	3.9		4.892		80.2	69	147			

Sample ID: 2311069-029AMSD	SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH23-52 4'	Batch ID: 78589		RunNo: 100997							
Prep Date: 11/6/2023	Analysis Date: 11/6/2023		SeqNo: 3707288		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	49.90	0	108	54.2	135	1.61	29.2	
Surr: DNOP	3.9		4.990		78.9	69	147	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2311069

22-Nov-23

Client: Vertex Resources Services, Inc.**Project:** Gaucho Unit 006H

Sample ID: ics-78543	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 78543			RunNo: 101017						
Prep Date: 11/2/2023	Analysis Date: 11/7/2023			SeqNo: 3708381		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.2	70	130			
Surr: BFB	2200		1000		217	15	244			

Sample ID: mb-78543	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 78543			RunNo: 101017						
Prep Date: 11/2/2023	Analysis Date: 11/7/2023			SeqNo: 3708382		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	15	244			

Sample ID: ics-78557	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 78557			RunNo: 101030						
Prep Date: 11/3/2023	Analysis Date: 11/8/2023			SeqNo: 3709400		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	70	130			
Surr: BFB	2100		1000		210	15	244			

Sample ID: mb-78557	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 78557			RunNo: 101030						
Prep Date: 11/3/2023	Analysis Date: 11/8/2023			SeqNo: 3709401		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		94.6	15	244			

Sample ID: ics-78558	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 78558			RunNo: 101100						
Prep Date: 11/3/2023	Analysis Date: 11/10/2023			SeqNo: 3712562		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.7	70	130			
Surr: BFB	2000		1000		198	15	244			

Sample ID: mb-78558	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 78558			RunNo: 101100						
Prep Date: 11/3/2023	Analysis Date: 11/10/2023			SeqNo: 3712563		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311069

22-Nov-23

Client: Vertex Resources Services, Inc.

Project: Gaucho Unit 006H

Sample ID: mb-78558	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 78558	RunNo: 101100								
Prep Date: 11/3/2023	Analysis Date: 11/10/2023	SeqNo: 3712563			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		92.6	15	244			

Sample ID: 2311069-029ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH23-52 4'	Batch ID: 78558	RunNo: 101100								
Prep Date: 11/3/2023	Analysis Date: 11/10/2023	SeqNo: 3713156			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	24.90	0	79.7	70	130			
Surr: BFB	1900		996.0		192	15	244			

Sample ID: 2311069-029amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH23-52 4'	Batch ID: 78558	RunNo: 101100								
Prep Date: 11/3/2023	Analysis Date: 11/10/2023	SeqNo: 3713157			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	5.0	24.78	0	75.9	70	130	5.38	20	
Surr: BFB	1900		991.1		189	15	244	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311069

22-Nov-23

Client: Vertex Resources Services, Inc.**Project:** Gaucho Unit 006H

Sample ID: lcs-78543	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 78543			RunNo: 101017						
Prep Date: 11/2/2023	Analysis Date: 11/7/2023			SeqNo: 3708405		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.70	0.025	1.000	0	70.0	70	130			
Toluene	0.74	0.050	1.000	0	74.2	70	130			
Ethylbenzene	0.75	0.050	1.000	0	75.5	70	130			
Xylenes, Total	2.2	0.10	3.000	0	74.6	70	130			
Surr: 4-Bromofluorobenzene	0.86		1.000		86.2	39.1	146			

Sample ID: mb-78543	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 78543			RunNo: 101017						
Prep Date: 11/2/2023	Analysis Date: 11/7/2023			SeqNo: 3708406		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.83		1.000		83.4	39.1	146			

Sample ID: LCS-78557	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 78557			RunNo: 101030						
Prep Date: 11/3/2023	Analysis Date: 11/8/2023			SeqNo: 3709404		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.3	70	130			
Toluene	0.98	0.050	1.000	0	97.8	70	130			
Ethylbenzene	0.97	0.050	1.000	0	97.4	70	130			
Xylenes, Total	3.0	0.10	3.000	0	98.4	70	130			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.8	39.1	146			

Sample ID: mb-78557	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 78557			RunNo: 101030						
Prep Date: 11/3/2023	Analysis Date: 11/8/2023			SeqNo: 3709405		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.2	39.1	146			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311069

22-Nov-23

Client: Vertex Resources Services, Inc.**Project:** Gaucho Unit 006H

Sample ID: LCS-78558	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 78558		RunNo: 101100							
Prep Date: 11/3/2023	Analysis Date: 11/10/2023		SeqNo: 3712568		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.2	70	130			
Toluene	0.94	0.050	1.000	0	94.4	70	130			
Ethylbenzene	0.96	0.050	1.000	0	95.7	70	130			
Xylenes, Total	2.9	0.10	3.000	0	95.2	70	130			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	39.1	146			

Sample ID: mb-78558	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 78558		RunNo: 101100							
Prep Date: 11/3/2023	Analysis Date: 11/10/2023		SeqNo: 3712569		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		96.9	39.1	146			

Sample ID: 2311069-030ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH23-52 6'	Batch ID: 78558		RunNo: 101100							
Prep Date: 11/3/2023	Analysis Date: 11/10/2023		SeqNo: 3713205		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	0.9833	0	86.9	70	130			
Toluene	0.86	0.049	0.9833	0	87.6	70	130			
Ethylbenzene	0.87	0.049	0.9833	0	88.9	70	130			
Xylenes, Total	2.6	0.098	2.950	0	88.6	70	130			
Surr: 4-Bromofluorobenzene	0.94		0.9833		95.4	39.1	146			

Sample ID: 2311069-030amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH23-52 6'	Batch ID: 78558		RunNo: 101100							
Prep Date: 11/3/2023	Analysis Date: 11/10/2023		SeqNo: 3713206		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	0.9804	0	87.8	70	130	0.782	20	
Toluene	0.87	0.049	0.9804	0	88.8	70	130	1.12	20	
Ethylbenzene	0.87	0.049	0.9804	0	89.0	70	130	0.160	20	
Xylenes, Total	2.6	0.098	2.941	0	89.4	70	130	0.612	20	
Surr: 4-Bromofluorobenzene	0.92		0.9804		93.6	39.1	146	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		



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

Sample Log-In Check List

Client Name: Vertex Resources
Services, Inc.

Work Order Number: 2311069

RcptNo: 1

Received By: Tracy Casarrubias 11/2/2023 7:45:00 AM

Completed By: Tracy Casarrubias 11/2/2023 8:04:51 AM

Reviewed By: SCM 11/2/23

Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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: gum 11/2/23

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: Mailing address, phone number and Email/Fax are missing on COC- TMC 11/2/23

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.9	Good	Yes	Yogi		



Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 16, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL:

FAX:

RE: Gaucho Unit 6H

OrderNo.: 2311218

Dear Kent Stallings:

Eurofins Environment Testing South Central, LLC received 19 sample(s) on 11/4/2023 for the analyses presented in the following report.

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

Please do not hesitate to contact Eurofins Albuquerque 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".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2311218

Date Reported: 11/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-42 4'

Project: Gaucho Unit 6H

Collection Date: 11/2/2023 10:16:00 AM

Lab ID: 2311218-001

Matrix: SOIL

Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/7/2023 9:56:28 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/7/2023 9:56:28 PM
Surr: DNOP	86.0	69-147		%Rec	1	11/7/2023 9:56:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/10/2023 11:31:49 PM
Surr: BFB	92.1	15-244		%Rec	1	11/10/2023 11:31:49 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/10/2023 11:31:49 PM
Toluene	ND	0.049		mg/Kg	1	11/10/2023 11:31:49 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/10/2023 11:31:49 PM
Xylenes, Total	ND	0.099		mg/Kg	1	11/10/2023 11:31:49 PM
Surr: 4-Bromofluorobenzene	93.9	39.1-146		%Rec	1	11/10/2023 11:31:49 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	1500	60		mg/Kg	20	11/8/2023 9:22:57 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311218

Date Reported: 11/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-42 6'

Project: Gaucho Unit 6H

Collection Date: 11/2/2023 1:24:00 PM

Lab ID: 2311218-002

Matrix: SOIL

Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/7/2023 10:20:55 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/7/2023 10:20:55 PM
Surr: DNOP	83.5	69-147		%Rec	1	11/7/2023 10:20:55 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/11/2023 12:42:20 AM
Surr: BFB	88.9	15-244		%Rec	1	11/11/2023 12:42:20 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/11/2023 12:42:20 AM
Toluene	ND	0.049		mg/Kg	1	11/11/2023 12:42:20 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/11/2023 12:42:20 AM
Xylenes, Total	ND	0.098		mg/Kg	1	11/11/2023 12:42:20 AM
Surr: 4-Bromofluorobenzene	90.4	39.1-146		%Rec	1	11/11/2023 12:42:20 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	1800	60		mg/Kg	20	11/8/2023 9:38:07 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311218

Date Reported: 11/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-42 8'

Project: Gaucho Unit 6H

Collection Date: 11/2/2023 2:30:00 PM

Lab ID: 2311218-003

Matrix: SOIL

Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/7/2023 10:45:22 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/7/2023 10:45:22 PM
Surr: DNOP	87.7	69-147		%Rec	1	11/7/2023 10:45:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/11/2023 1:52:50 AM
Surr: BFB	91.6	15-244		%Rec	1	11/11/2023 1:52:50 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/11/2023 1:52:50 AM
Toluene	ND	0.050		mg/Kg	1	11/11/2023 1:52:50 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/11/2023 1:52:50 AM
Xylenes, Total	ND	0.099		mg/Kg	1	11/11/2023 1:52:50 AM
Surr: 4-Bromofluorobenzene	93.8	39.1-146		%Rec	1	11/11/2023 1:52:50 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	2200	60		mg/Kg	20	11/8/2023 9:53:16 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311218

Date Reported: 11/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-42 10'

Project: Gaucho Unit 6H

Collection Date: 11/2/2023 2:34:00 PM

Lab ID: 2311218-004

Matrix: SOIL

Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/7/2023 11:09:50 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/7/2023 11:09:50 PM
Surr: DNOP	86.4	69-147		%Rec	1	11/7/2023 11:09:50 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/11/2023 2:16:11 AM
Surr: BFB	90.7	15-244		%Rec	1	11/11/2023 2:16:11 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/11/2023 2:16:11 AM
Toluene	ND	0.047		mg/Kg	1	11/11/2023 2:16:11 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/11/2023 2:16:11 AM
Xylenes, Total	ND	0.095		mg/Kg	1	11/11/2023 2:16:11 AM
Surr: 4-Bromofluorobenzene	94.4	39.1-146		%Rec	1	11/11/2023 2:16:11 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	1700	60		mg/Kg	20	11/8/2023 10:08:26 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311218

Date Reported: 11/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-48 4'

Project: Gaucho Unit 6H

Collection Date: 11/2/2023 11:13:00 AM

Lab ID: 2311218-005

Matrix: SOIL

Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/7/2023 11:34:13 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/7/2023 11:34:13 PM
Surr: DNOP	88.5	69-147		%Rec	1	11/7/2023 11:34:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/11/2023 2:39:34 AM
Surr: BFB	91.4	15-244		%Rec	1	11/11/2023 2:39:34 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/11/2023 2:39:34 AM
Toluene	ND	0.048		mg/Kg	1	11/11/2023 2:39:34 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/11/2023 2:39:34 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/11/2023 2:39:34 AM
Surr: 4-Bromofluorobenzene	93.2	39.1-146		%Rec	1	11/11/2023 2:39:34 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	2800	150		mg/Kg	50	11/9/2023 8:56:07 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311218

Date Reported: 11/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-48 6'

Project: Gaucho Unit 6H

Collection Date: 11/2/2023 2:15:00 PM

Lab ID: 2311218-006

Matrix: SOIL

Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/7/2023 11:58:38 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/7/2023 11:58:38 PM
Surr: DNOP	90.3	69-147		%Rec	1	11/7/2023 11:58:38 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/11/2023 3:03:06 AM
Surr: BFB	93.1	15-244		%Rec	1	11/11/2023 3:03:06 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/11/2023 3:03:06 AM
Toluene	ND	0.049		mg/Kg	1	11/11/2023 3:03:06 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/11/2023 3:03:06 AM
Xylenes, Total	ND	0.098		mg/Kg	1	11/11/2023 3:03:06 AM
Surr: 4-Bromofluorobenzene	96.1	39.1-146		%Rec	1	11/11/2023 3:03:06 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	7100	300		mg/Kg	100	11/9/2023 9:10:45 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311218

Date Reported: 11/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-48 8'

Project: Gaucho Unit 6H

Collection Date: 11/2/2023 2:20:00 PM

Lab ID: 2311218-007

Matrix: SOIL

Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/8/2023 12:23:03 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/8/2023 12:23:03 AM
Surr: DNOP	87.3	69-147		%Rec	1	11/8/2023 12:23:03 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/11/2023 3:26:40 AM
Surr: BFB	92.1	15-244		%Rec	1	11/11/2023 3:26:40 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/11/2023 3:26:40 AM
Toluene	ND	0.049		mg/Kg	1	11/11/2023 3:26:40 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/11/2023 3:26:40 AM
Xylenes, Total	ND	0.098		mg/Kg	1	11/11/2023 3:26:40 AM
Surr: 4-Bromofluorobenzene	94.8	39.1-146		%Rec	1	11/11/2023 3:26:40 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	4000	150		mg/Kg	50	11/9/2023 9:25:55 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311218

Date Reported: 11/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-52 8'

Project: Gaucho Unit 6H

Collection Date: 11/2/2023 10:00:00 AM

Lab ID: 2311218-008

Matrix: SOIL

Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/8/2023 12:47:26 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/8/2023 12:47:26 AM
Surr: DNOP	89.4	69-147		%Rec	1	11/8/2023 12:47:26 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/11/2023 3:50:13 AM
Surr: BFB	91.4	15-244		%Rec	1	11/11/2023 3:50:13 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/11/2023 3:50:13 AM
Toluene	ND	0.048		mg/Kg	1	11/11/2023 3:50:13 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/11/2023 3:50:13 AM
Xylenes, Total	ND	0.095		mg/Kg	1	11/11/2023 3:50:13 AM
Surr: 4-Bromofluorobenzene	93.8	39.1-146		%Rec	1	11/11/2023 3:50:13 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	2100	150		mg/Kg	50	11/9/2023 9:41:04 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311218

Date Reported: 11/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-52 10'

Project: Gaucho Unit 6H

Collection Date: 11/2/2023 10:10:00 AM

Lab ID: 2311218-009

Matrix: SOIL

Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/8/2023 1:11:45 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/8/2023 1:11:45 AM
Surr: DNOP	86.9	69-147		%Rec	1	11/8/2023 1:11:45 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/11/2023 4:13:42 AM
Surr: BFB	91.5	15-244		%Rec	1	11/11/2023 4:13:42 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/11/2023 4:13:42 AM
Toluene	ND	0.048		mg/Kg	1	11/11/2023 4:13:42 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/11/2023 4:13:42 AM
Xylenes, Total	ND	0.097		mg/Kg	1	11/11/2023 4:13:42 AM
Surr: 4-Bromofluorobenzene	94.1	39.1-146		%Rec	1	11/11/2023 4:13:42 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	1400	60		mg/Kg	20	11/8/2023 11:54:29 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311218

Date Reported: 11/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-54 4'

Project: Gaucho Unit 6H

Collection Date: 11/2/2023 10:35:00 AM

Lab ID: 2311218-010

Matrix: SOIL

Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/8/2023 1:36:06 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/8/2023 1:36:06 AM
Surr: DNOP	87.6	69-147		%Rec	1	11/8/2023 1:36:06 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/11/2023 4:37:12 AM
Surr: BFB	91.7	15-244		%Rec	1	11/11/2023 4:37:12 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/11/2023 4:37:12 AM
Toluene	ND	0.049		mg/Kg	1	11/11/2023 4:37:12 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/11/2023 4:37:12 AM
Xylenes, Total	ND	0.097		mg/Kg	1	11/11/2023 4:37:12 AM
Surr: 4-Bromofluorobenzene	94.6	39.1-146		%Rec	1	11/11/2023 4:37:12 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	6900	300		mg/Kg	100	11/9/2023 9:58:57 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311218

Date Reported: 11/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-55 0'

Project: Gaucho Unit 6H

Collection Date: 11/2/2023 10:45:00 AM

Lab ID: 2311218-011

Matrix: SOIL

Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/8/2023 2:00:24 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/8/2023 2:00:24 AM
Surr: DNOP	90.6	69-147		%Rec	1	11/8/2023 2:00:24 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/11/2023 5:24:08 AM
Surr: BFB	93.9	15-244		%Rec	1	11/11/2023 5:24:08 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/11/2023 5:24:08 AM
Toluene	ND	0.047		mg/Kg	1	11/11/2023 5:24:08 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/11/2023 5:24:08 AM
Xylenes, Total	ND	0.093		mg/Kg	1	11/11/2023 5:24:08 AM
Surr: 4-Bromofluorobenzene	96.4	39.1-146		%Rec	1	11/11/2023 5:24:08 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/8/2023 10:20:37 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2311218
Date Reported: 11/16/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-55 2'
Project: Gaucho Unit 6H Collection Date: 11/2/2023 10:50:00 AM
Lab ID: 2311218-012 Matrix: SOIL Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/8/2023 2:49:02 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/8/2023 2:49:02 AM
Surr: DNOP	88.5	69-147		%Rec	1	11/8/2023 2:49:02 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/11/2023 5:47:39 AM
Surr: BFB	93.9	15-244		%Rec	1	11/11/2023 5:47:39 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/11/2023 5:47:39 AM
Toluene	ND	0.048		mg/Kg	1	11/11/2023 5:47:39 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/11/2023 5:47:39 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/11/2023 5:47:39 AM
Surr: 4-Bromofluorobenzene	97.8	39.1-146		%Rec	1	11/11/2023 5:47:39 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/8/2023 10:57:50 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311218

Date Reported: 11/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-57 0'

Project: Gaucho Unit 6H

Collection Date: 11/2/2023 11:18:00 AM

Lab ID: 2311218-013

Matrix: SOIL

Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/8/2023 3:13:17 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/8/2023 3:13:17 AM
Surr: DNOP	89.7	69-147		%Rec	1	11/8/2023 3:13:17 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/11/2023 6:11:04 AM
Surr: BFB	91.4	15-244		%Rec	1	11/11/2023 6:11:04 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/11/2023 6:11:04 AM
Toluene	ND	0.049		mg/Kg	1	11/11/2023 6:11:04 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/11/2023 6:11:04 AM
Xylenes, Total	ND	0.097		mg/Kg	1	11/11/2023 6:11:04 AM
Surr: 4-Bromofluorobenzene	94.5	39.1-146		%Rec	1	11/11/2023 6:11:04 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/8/2023 11:35:04 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311218

Date Reported: 11/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-57 2'

Project: Gaucho Unit 6H

Collection Date: 11/2/2023 11:23:00 AM

Lab ID: 2311218-014

Matrix: SOIL

Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/8/2023 3:37:28 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/8/2023 3:37:28 AM
Surr: DNOP	89.4	69-147		%Rec	1	11/8/2023 3:37:28 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/11/2023 6:34:33 AM
Surr: BFB	91.7	15-244		%Rec	1	11/11/2023 6:34:33 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/11/2023 6:34:33 AM
Toluene	ND	0.049		mg/Kg	1	11/11/2023 6:34:33 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/11/2023 6:34:33 AM
Xylenes, Total	ND	0.098		mg/Kg	1	11/11/2023 6:34:33 AM
Surr: 4-Bromofluorobenzene	95.3	39.1-146		%Rec	1	11/11/2023 6:34:33 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/9/2023 12:12:18 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.
Project: Gaucho Unit 6H
Lab ID: 2311218-015

Matrix: SOIL

Client Sample ID: BH23-58 0'
Collection Date: 11/2/2023 2:23:00 PM
Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/8/2023 4:01:42 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/8/2023 4:01:42 AM
Surr: DNOP	113	69-147		%Rec	1	11/8/2023 4:01:42 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/11/2023 6:58:00 AM
Surr: BFB	90.3	15-244		%Rec	1	11/11/2023 6:58:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/11/2023 6:58:00 AM
Toluene	ND	0.049		mg/Kg	1	11/11/2023 6:58:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/11/2023 6:58:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	11/11/2023 6:58:00 AM
Surr: 4-Bromofluorobenzene	93.4	39.1-146		%Rec	1	11/11/2023 6:58:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	11/9/2023 12:24:43 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311218

Date Reported: 11/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-58 2'

Project: Gaucho Unit 6H

Collection Date: 11/2/2023 2:26:00 PM

Lab ID: 2311218-016

Matrix: SOIL

Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/8/2023 4:25:52 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/8/2023 4:25:52 AM
Surr: DNOP	111	69-147		%Rec	1	11/8/2023 4:25:52 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/11/2023 7:21:23 AM
Surr: BFB	91.4	15-244		%Rec	1	11/11/2023 7:21:23 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/11/2023 7:21:23 AM
Toluene	ND	0.047		mg/Kg	1	11/11/2023 7:21:23 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/11/2023 7:21:23 AM
Xylenes, Total	ND	0.093		mg/Kg	1	11/11/2023 7:21:23 AM
Surr: 4-Bromofluorobenzene	95.3	39.1-146		%Rec	1	11/11/2023 7:21:23 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	61		mg/Kg	20	11/9/2023 12:37:07 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311218

Date Reported: 11/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-48 10'

Project: Gaucho Unit 6H

Collection Date: 11/2/2023 2:53:00 PM

Lab ID: 2311218-017

Matrix: SOIL

Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/8/2023 4:50:08 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/8/2023 4:50:08 AM
Surr: DNOP	114	69-147		%Rec	1	11/8/2023 4:50:08 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/11/2023 7:44:48 AM
Surr: BFB	90.7	15-244		%Rec	1	11/11/2023 7:44:48 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/11/2023 7:44:48 AM
Toluene	ND	0.048		mg/Kg	1	11/11/2023 7:44:48 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/11/2023 7:44:48 AM
Xylenes, Total	ND	0.097		mg/Kg	1	11/11/2023 7:44:48 AM
Surr: 4-Bromofluorobenzene	94.9	39.1-146		%Rec	1	11/11/2023 7:44:48 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	4300	150		mg/Kg	50	11/9/2023 10:15:50 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2311218
Date Reported: 11/16/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-56 0'
Project: Gaucho Unit 6H Collection Date: 11/2/2023 10:40:00 AM
Lab ID: 2311218-018 Matrix: SOIL Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/8/2023 5:14:13 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/8/2023 5:14:13 AM
Surr: DNOP	113	69-147		%Rec	1	11/8/2023 5:14:13 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/11/2023 8:08:19 AM
Surr: BFB	91.9	15-244		%Rec	1	11/11/2023 8:08:19 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/11/2023 8:08:19 AM
Toluene	ND	0.047		mg/Kg	1	11/11/2023 8:08:19 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/11/2023 8:08:19 AM
Xylenes, Total	ND	0.095		mg/Kg	1	11/11/2023 8:08:19 AM
Surr: 4-Bromofluorobenzene	95.3	39.1-146		%Rec	1	11/11/2023 8:08:19 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	1300	60		mg/Kg	20	11/9/2023 1:01:56 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.
Project: Gaucho Unit 6H
Lab ID: 2311218-019

Client Sample ID: BH23-56 2'
Collection Date: 11/2/2023 10:45:00 AM
Received Date: 11/4/2023 9:00:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/8/2023 5:38:22 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/8/2023 5:38:22 AM
Surr: DNOP	114	69-147		%Rec	1	11/8/2023 5:38:22 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/11/2023 8:31:48 AM
Surr: BFB	91.9	15-244		%Rec	1	11/11/2023 8:31:48 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/11/2023 8:31:48 AM
Toluene	ND	0.047		mg/Kg	1	11/11/2023 8:31:48 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/11/2023 8:31:48 AM
Xylenes, Total	ND	0.093		mg/Kg	1	11/11/2023 8:31:48 AM
Surr: 4-Bromofluorobenzene	95.3	39.1-146		%Rec	1	11/11/2023 8:31:48 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	2400	59		mg/Kg	20	11/9/2023 1:14:20 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311218

16-Nov-23

Client: Vertex Resources Services, Inc.**Project:** Gaucho Unit 6H

Sample ID: MB-78663	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 78663		RunNo: 101036							
Prep Date: 11/8/2023	Analysis Date: 11/8/2023		SeqNo: 3710246		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78663	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 78663		RunNo: 101036							
Prep Date: 11/8/2023	Analysis Date: 11/8/2023		SeqNo: 3710247		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.6	90	110			

Sample ID: MB-78662	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 78662		RunNo: 101068							
Prep Date: 11/8/2023	Analysis Date: 11/8/2023		SeqNo: 3710608		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78662	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 78662		RunNo: 101068							
Prep Date: 11/8/2023	Analysis Date: 11/8/2023		SeqNo: 3710609		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.2	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311218

16-Nov-23

Client: Vertex Resources Services, Inc.

Project: Gaucho Unit 6H

Sample ID: MB-78622	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 78622	RunNo: 101010								
Prep Date: 11/7/2023	Analysis Date: 11/7/2023	SeqNo: 3708232	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.0		10.00		80.3	69	147			

Sample ID: LCS-78622	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 78622	RunNo: 101010								
Prep Date: 11/7/2023	Analysis Date: 11/7/2023	SeqNo: 3708233	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	55	10	50.00	0	109	61.9	130			
Surr: DNOP	3.6		5.000		72.7	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2311218

16-Nov-23

Client: Vertex Resources Services, Inc.**Project:** Gaucho Unit 6H

Sample ID: ics-78605	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 78605			RunNo: 101100						
Prep Date: 11/6/2023	Analysis Date: 11/10/2023			SeqNo: 3713152		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	82.0	70	130			
Surr: BFB	1900		1000		194	15	244			

Sample ID: mb-78605	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 78605			RunNo: 101100						
Prep Date: 11/6/2023	Analysis Date: 11/10/2023			SeqNo: 3713154		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		91.9	15	244			

Sample ID: 2311218-001ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH23-42 4'	Batch ID: 78605			RunNo: 101100						
Prep Date: 11/6/2023	Analysis Date: 11/10/2023			SeqNo: 3713169		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	5.0	24.75	0	78.4	70	130			
Surr: BFB	1900		990.1		192	15	244			

Sample ID: 2311218-001amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH23-42 4'	Batch ID: 78605			RunNo: 101100						
Prep Date: 11/6/2023	Analysis Date: 11/11/2023			SeqNo: 3713170		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.9	24.61	0	76.1	70	130	3.54	20	
Surr: BFB	1900		984.3		189	15	244	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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311218

16-Nov-23

Client: Vertex Resources Services, Inc.

Project: Gaucho Unit 6H

Sample ID: LCS-78605	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 78605		RunNo: 101100							
Prep Date: 11/6/2023	Analysis Date: 11/10/2023		SeqNo: 3713201		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.2	70	130			
Toluene	0.93	0.050	1.000	0	93.4	70	130			
Ethylbenzene	0.94	0.050	1.000	0	94.0	70	130			
Xylenes, Total	2.8	0.10	3.000	0	93.9	70	130			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.3	39.1	146			

Sample ID: mb-78605	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 78605		RunNo: 101100							
Prep Date: 11/6/2023	Analysis Date: 11/10/2023		SeqNo: 3713203		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		93.6	39.1	146			

Sample ID: 2311218-002ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH23-42 6'	Batch ID: 78605		RunNo: 101100							
Prep Date: 11/6/2023	Analysis Date: 11/11/2023		SeqNo: 3713219		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.024	0.9785	0	90.8	70	130			
Toluene	0.90	0.049	0.9785	0	92.1	70	130			
Ethylbenzene	0.92	0.049	0.9785	0	93.7	70	130			
Xylenes, Total	2.8	0.098	2.935	0	94.4	70	130			
Surr: 4-Bromofluorobenzene	0.94		0.9785		96.3	39.1	146			

Sample ID: 2311218-002amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH23-42 6'	Batch ID: 78605		RunNo: 101100							
Prep Date: 11/6/2023	Analysis Date: 11/11/2023		SeqNo: 3713220		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	0.9872	0	92.1	70	130	2.34	20	
Toluene	0.93	0.049	0.9872	0	93.9	70	130	2.86	20	
Ethylbenzene	0.94	0.049	0.9872	0	94.8	70	130	2.00	20	
Xylenes, Total	2.8	0.099	2.962	0	95.4	70	130	1.95	20	
Surr: 4-Bromofluorobenzene	0.95		0.9872		96.6	39.1	146	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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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Environment Testin

Eurofins Environment Testing South
Central, LLC4901 Hawkins NE
Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Vertex Resources

Work Order Number: 2311218

RcptNo: 1

Received By: Tracy Casarrubias

11/4/2023 9:00:00 AM

Completed By: Tracy Casarrubias

11/4/2023 9:57:30 AM

Reviewed By: *CM*

11/6/23

Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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: *TMC 11/4/23*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: Mailing address, phone number and Email/Fax are missing on COC- TMC 11/4/23

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.6	Good	Yes	Yogi		

Client: **Vertex**
(direct bill to Devon, work order 21222677)
Mailing Address:
Phone #:
email or Fax#:
QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:

☐ Standard ☒ Rush_72-hour rush

Project Name:

Gaucha Unit 6H

Project #:

23E-05499

Project Manager:

Kent Stallings

kstallings@vertex.ca

Sampler: A. Castro

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): 3.6 - 8 = 3.6 °C

Container Type and #

Preservative Type

HEAL No.
2311218

Date	Time	Matrix	Sample Name
11/2/2023	10:16	Soil	BH23-42 4'
11/2/2023	13:24	Soil	BH23-42 6'
11/2/2023	14:30	Soil	BH23-42 8'
11/2/2023	14:34	Soil	BH23-42 10'
11/2/2023	11:13	Soil	BH23-48 4'
11/2/2023	14:15	Soil	BH23-48 6'
11/2/2023	14:20	Soil	BH23-48 8'
11/2/2023	10:00	Soil	BH23-52 8'
11/2/2023	10:10	Soil	BH23-52 10'
11/2/2023	10:35	Soil	BH23-54 4'
11/2/2023	10:45	Soil	BH23-55 0'
11/2/2023	10:50	Soil	BH23-55 2'

Date: 11/2/23 Time: 18:15 Relinquished by: [Signature]

Date: 11/3/23 Time: 19:00 Relinquished by: [Signature]

Received by: [Signature] Via: [Signature] Date: 11/3/23 Time: 8:15

Received by: [Signature] Via: [Signature] Date: 11/4/23 Time: 9:00

**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 ₃ , NO ₂ , PO ₄ , SO	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													

Remarks:Direct bill to Devon work order 21222677 Dale Woodall
cc. KStallings@vertex.ca, SMcCarty@vertex.ca 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.

Client: **Vertex**

(direct bill to Devon, work order 21222677)

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

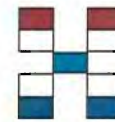
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:	
<input type="checkbox"/> Standard	<input checked="" type="checkbox"/> Rush_72-hour rush
Project Name:	
Gaucho Unit 6H	
Project #:	
23E-05499	
Project Manager:	
Kent Stallings	
kstallings@vertex.ca	
Sampler:	A. Castro
On Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
# of Coolers:	1



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

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.



*Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

November 17, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL:

FAX:

RE: Gaucho Unit 6H

OrderNo.: 2311281

Dear Kent Stallings:

Eurofins Environment Testing South Central, LLC received 18 sample(s) on 11/7/2023 for the analyses presented in the following report.

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

Please do not hesitate to contact Eurofins Albuquerque 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".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2311281

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-54 8'

Project: Gaucho Unit 6H

Collection Date: 11/3/2023 10:10:00 AM

Lab ID: 2311281-001

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/13/2023 2:40:55 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/13/2023 2:40:55 PM
Surr: DNOP	95.7	69-147		%Rec	1	11/13/2023 2:40:55 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/12/2023 2:39:26 AM
Surr: BFB	89.1	15-244		%Rec	1	11/12/2023 2:39:26 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/12/2023 2:39:26 AM
Toluene	ND	0.049		mg/Kg	1	11/12/2023 2:39:26 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/12/2023 2:39:26 AM
Xylenes, Total	ND	0.099		mg/Kg	1	11/12/2023 2:39:26 AM
Surr: 4-Bromofluorobenzene	92.6	39.1-146		%Rec	1	11/12/2023 2:39:26 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	1300	60		mg/Kg	20	11/13/2023 1:53:04 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311281

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-54 10'

Project: Gaucho Unit 6H

Collection Date: 11/3/2023 10:15:00 AM

Lab ID: 2311281-002

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/13/2023 3:22:56 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/13/2023 3:22:56 PM
Surr: DNOP	95.9	69-147		%Rec	1	11/13/2023 3:22:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/12/2023 3:02:41 AM
Surr: BFB	87.3	15-244		%Rec	1	11/12/2023 3:02:41 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/12/2023 3:02:41 AM
Toluene	ND	0.048		mg/Kg	1	11/12/2023 3:02:41 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/12/2023 3:02:41 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/12/2023 3:02:41 AM
Surr: 4-Bromofluorobenzene	90.0	39.1-146		%Rec	1	11/12/2023 3:02:41 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	500	60		mg/Kg	20	11/13/2023 2:05:29 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311281

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-60 0'

Project: Gaucho Unit 6H

Collection Date: 11/3/2023 10:00:00 AM

Lab ID: 2311281-003

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/13/2023 3:33:35 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/13/2023 3:33:35 PM
Surr: DNOP	89.7	69-147		%Rec	1	11/13/2023 3:33:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/12/2023 3:25:57 AM
Surr: BFB	89.0	15-244		%Rec	1	11/12/2023 3:25:57 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/12/2023 3:25:57 AM
Toluene	ND	0.046		mg/Kg	1	11/12/2023 3:25:57 AM
Ethylbenzene	ND	0.046		mg/Kg	1	11/12/2023 3:25:57 AM
Xylenes, Total	ND	0.092		mg/Kg	1	11/12/2023 3:25:57 AM
Surr: 4-Bromofluorobenzene	91.8	39.1-146		%Rec	1	11/12/2023 3:25:57 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	61		mg/Kg	20	11/13/2023 2:17:53 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311281

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-60 2'

Project: Gaucho Unit 6H

Collection Date: 11/3/2023 10:03:00 AM

Lab ID: 2311281-004

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/13/2023 3:44:13 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/13/2023 3:44:13 PM
Surr: DNOP	89.0	69-147		%Rec	1	11/13/2023 3:44:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/12/2023 3:49:12 AM
Surr: BFB	88.5	15-244		%Rec	1	11/12/2023 3:49:12 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/12/2023 3:49:12 AM
Toluene	ND	0.047		mg/Kg	1	11/12/2023 3:49:12 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/12/2023 3:49:12 AM
Xylenes, Total	ND	0.093		mg/Kg	1	11/12/2023 3:49:12 AM
Surr: 4-Bromofluorobenzene	92.4	39.1-146		%Rec	1	11/12/2023 3:49:12 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	59		mg/Kg	20	11/13/2023 2:30:18 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311281

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-61 0'

Project: Gaucho Unit 6H

Collection Date: 11/3/2023 10:12:00 AM

Lab ID: 2311281-005

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/13/2023 3:54:51 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/13/2023 3:54:51 PM
Surr: DNOP	85.9	69-147		%Rec	1	11/13/2023 3:54:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/12/2023 5:45:13 AM
Surr: BFB	89.0	15-244		%Rec	1	11/12/2023 5:45:13 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/12/2023 5:45:13 AM
Toluene	ND	0.049		mg/Kg	1	11/12/2023 5:45:13 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/12/2023 5:45:13 AM
Xylenes, Total	ND	0.098		mg/Kg	1	11/12/2023 5:45:13 AM
Surr: 4-Bromofluorobenzene	93.8	39.1-146		%Rec	1	11/12/2023 5:45:13 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	250	60		mg/Kg	20	11/13/2023 2:42:42 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311281

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-61 2'

Project: Gaucho Unit 6H

Collection Date: 11/3/2023 10:16:00 AM

Lab ID: 2311281-006

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/13/2023 4:05:28 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/13/2023 4:05:28 PM
Surr: DNOP	83.6	69-147		%Rec	1	11/13/2023 4:05:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/12/2023 6:08:24 AM
Surr: BFB	88.0	15-244		%Rec	1	11/12/2023 6:08:24 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/12/2023 6:08:24 AM
Toluene	ND	0.049		mg/Kg	1	11/12/2023 6:08:24 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/12/2023 6:08:24 AM
Xylenes, Total	ND	0.098		mg/Kg	1	11/12/2023 6:08:24 AM
Surr: 4-Bromofluorobenzene	92.3	39.1-146		%Rec	1	11/12/2023 6:08:24 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	240	60		mg/Kg	20	11/13/2023 2:55:06 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311281

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-62 0'

Project: Gaucho Unit 6H

Collection Date: 11/3/2023 10:26:00 AM

Lab ID: 2311281-007

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/13/2023 4:16:03 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/13/2023 4:16:03 PM
Surr: DNOP	90.6	69-147		%Rec	1	11/13/2023 4:16:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/12/2023 6:31:34 AM
Surr: BFB	89.0	15-244		%Rec	1	11/12/2023 6:31:34 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/12/2023 6:31:34 AM
Toluene	ND	0.048		mg/Kg	1	11/12/2023 6:31:34 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/12/2023 6:31:34 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/12/2023 6:31:34 AM
Surr: 4-Bromofluorobenzene	92.9	39.1-146		%Rec	1	11/12/2023 6:31:34 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	11/13/2023 3:32:20 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311281

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-62 2'

Project: Gaucho Unit 6H

Collection Date: 11/3/2023 10:30:00 AM

Lab ID: 2311281-008

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	11/13/2023 4:26:38 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	11/13/2023 4:26:38 PM
Surr: DNOP	86.6	69-147		%Rec	1	11/13/2023 4:26:38 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/12/2023 6:54:45 AM
Surr: BFB	88.7	15-244		%Rec	1	11/12/2023 6:54:45 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/12/2023 6:54:45 AM
Toluene	ND	0.047		mg/Kg	1	11/12/2023 6:54:45 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/12/2023 6:54:45 AM
Xylenes, Total	ND	0.095		mg/Kg	1	11/12/2023 6:54:45 AM
Surr: 4-Bromofluorobenzene	93.0	39.1-146		%Rec	1	11/12/2023 6:54:45 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	11/13/2023 3:44:45 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311281

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-63 0'

Project: Gaucho Unit 6H

Collection Date: 11/3/2023 10:44:00 AM

Lab ID: 2311281-009

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/13/2023 4:48:56 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/13/2023 4:48:56 PM
Surr: DNOP	87.1	69-147		%Rec	1	11/13/2023 4:48:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/12/2023 7:17:56 AM
Surr: BFB	86.8	15-244		%Rec	1	11/12/2023 7:17:56 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/12/2023 7:17:56 AM
Toluene	ND	0.048		mg/Kg	1	11/12/2023 7:17:56 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/12/2023 7:17:56 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/12/2023 7:17:56 AM
Surr: 4-Bromofluorobenzene	90.7	39.1-146		%Rec	1	11/12/2023 7:17:56 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	79	60		mg/Kg	20	11/13/2023 3:57:10 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311281

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-63 2'

Project: Gaucho Unit 6H

Collection Date: 11/3/2023 10:47:00 AM

Lab ID: 2311281-010

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/13/2023 4:59:36 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/13/2023 4:59:36 PM
Surr: DNOP	85.8	69-147		%Rec	1	11/13/2023 4:59:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/12/2023 7:41:09 AM
Surr: BFB	87.3	15-244		%Rec	1	11/12/2023 7:41:09 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/12/2023 7:41:09 AM
Toluene	ND	0.048		mg/Kg	1	11/12/2023 7:41:09 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/12/2023 7:41:09 AM
Xylenes, Total	ND	0.097		mg/Kg	1	11/12/2023 7:41:09 AM
Surr: 4-Bromofluorobenzene	92.1	39.1-146		%Rec	1	11/12/2023 7:41:09 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	85	59		mg/Kg	20	11/13/2023 4:09:34 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311281

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-64 0'

Project: Gaucho Unit 6H

Collection Date: 11/3/2023 10:51:00 AM

Lab ID: 2311281-011

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/13/2023 5:23:57 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/13/2023 5:23:57 PM
Surr: DNOP	83.3	69-147		%Rec	1	11/13/2023 5:23:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/12/2023 8:27:34 AM
Surr: BFB	87.8	15-244		%Rec	1	11/12/2023 8:27:34 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/12/2023 8:27:34 AM
Toluene	ND	0.048		mg/Kg	1	11/12/2023 8:27:34 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/12/2023 8:27:34 AM
Xylenes, Total	ND	0.097		mg/Kg	1	11/12/2023 8:27:34 AM
Surr: 4-Bromofluorobenzene	91.5	39.1-146		%Rec	1	11/12/2023 8:27:34 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	89	61		mg/Kg	20	11/13/2023 4:21:58 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311281

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-64 2'

Project: Gaucho Unit 6H

Collection Date: 11/3/2023 10:57:00 AM

Lab ID: 2311281-012

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/13/2023 5:34:36 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/13/2023 5:34:36 PM
Surr: DNOP	94.8	69-147		%Rec	1	11/13/2023 5:34:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/12/2023 8:50:46 AM
Surr: BFB	88.6	15-244		%Rec	1	11/12/2023 8:50:46 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/12/2023 8:50:46 AM
Toluene	ND	0.047		mg/Kg	1	11/12/2023 8:50:46 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/12/2023 8:50:46 AM
Xylenes, Total	ND	0.094		mg/Kg	1	11/12/2023 8:50:46 AM
Surr: 4-Bromofluorobenzene	91.9	39.1-146		%Rec	1	11/12/2023 8:50:46 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	11/13/2023 4:34:23 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311281

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-65 0'

Project: Gaucho Unit 6H

Collection Date: 11/3/2023 11:12:00 AM

Lab ID: 2311281-013

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/13/2023 5:45:14 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/13/2023 5:45:14 PM
Surr: DNOP	101	69-147		%Rec	1	11/13/2023 5:45:14 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/12/2023 9:14:03 AM
Surr: BFB	88.7	15-244		%Rec	1	11/12/2023 9:14:03 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/12/2023 9:14:03 AM
Toluene	ND	0.050		mg/Kg	1	11/12/2023 9:14:03 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/12/2023 9:14:03 AM
Xylenes, Total	ND	0.10		mg/Kg	1	11/12/2023 9:14:03 AM
Surr: 4-Bromofluorobenzene	92.8	39.1-146		%Rec	1	11/12/2023 9:14:03 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	61		mg/Kg	20	11/13/2023 5:11:36 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311281

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-65 2'

Project: Gaucho Unit 6H

Collection Date: 11/3/2023 11:17:00 AM

Lab ID: 2311281-014

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/13/2023 5:55:53 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/13/2023 5:55:53 PM
Surr: DNOP	90.7	69-147		%Rec	1	11/13/2023 5:55:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/12/2023 9:37:19 AM
Surr: BFB	89.5	15-244		%Rec	1	11/12/2023 9:37:19 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/12/2023 9:37:19 AM
Toluene	ND	0.046		mg/Kg	1	11/12/2023 9:37:19 AM
Ethylbenzene	ND	0.046		mg/Kg	1	11/12/2023 9:37:19 AM
Xylenes, Total	ND	0.093		mg/Kg	1	11/12/2023 9:37:19 AM
Surr: 4-Bromofluorobenzene	93.0	39.1-146		%Rec	1	11/12/2023 9:37:19 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	11/13/2023 5:24:01 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311281

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-66 0'

Project: Gaucho Unit 6H

Collection Date: 11/3/2023 11:23:00 AM

Lab ID: 2311281-015

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/13/2023 6:06:31 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/13/2023 6:06:31 PM
Surr: DNOP	90.6	69-147		%Rec	1	11/13/2023 6:06:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/14/2023 12:37:05 PM
Surr: BFB	95.4	15-244		%Rec	1	11/14/2023 12:37:05 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	11/14/2023 12:37:05 PM
Toluene	ND	0.049		mg/Kg	1	11/14/2023 12:37:05 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/14/2023 12:37:05 PM
Xylenes, Total	ND	0.099		mg/Kg	1	11/14/2023 12:37:05 PM
Surr: 4-Bromofluorobenzene	93.8	39.1-146		%Rec	1	11/14/2023 12:37:05 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	470	60		mg/Kg	20	11/13/2023 6:01:14 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311281

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-66 2'

Project: Gaucho Unit 6H

Collection Date: 11/3/2023 11:33:00 AM

Lab ID: 2311281-016

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/13/2023 6:17:08 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/13/2023 6:17:08 PM
Surr: DNOP	89.0	69-147		%Rec	1	11/13/2023 6:17:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/14/2023 1:00:26 PM
Surr: BFB	96.6	15-244		%Rec	1	11/14/2023 1:00:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	11/14/2023 1:00:26 PM
Toluene	ND	0.047		mg/Kg	1	11/14/2023 1:00:26 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/14/2023 1:00:26 PM
Xylenes, Total	ND	0.093		mg/Kg	1	11/14/2023 1:00:26 PM
Surr: 4-Bromofluorobenzene	94.0	39.1-146		%Rec	1	11/14/2023 1:00:26 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	11/13/2023 6:13:38 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2311281

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-67 0'

Project: Gaucho Unit 6H

Collection Date: 11/3/2023 11:53:00 AM

Lab ID: 2311281-017

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/13/2023 6:27:44 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/13/2023 6:27:44 PM
Surr: DNOP	83.4	69-147		%Rec	1	11/13/2023 6:27:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/14/2023 1:23:50 PM
Surr: BFB	92.4	15-244		%Rec	1	11/14/2023 1:23:50 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/14/2023 1:23:50 PM
Toluene	ND	0.048		mg/Kg	1	11/14/2023 1:23:50 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/14/2023 1:23:50 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/14/2023 1:23:50 PM
Surr: 4-Bromofluorobenzene	94.1	39.1-146		%Rec	1	11/14/2023 1:23:50 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	59		mg/Kg	20	11/13/2023 6:50:51 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311281

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-67 2'

Project: Gaucho Unit 6H

Collection Date: 11/3/2023 11:57:00 AM

Lab ID: 2311281-018

Matrix: SOIL

Received Date: 11/7/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/13/2023 6:38:19 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/13/2023 6:38:19 PM
Surr: DNOP	91.5	69-147		%Rec	1	11/13/2023 6:38:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/14/2023 1:47:23 PM
Surr: BFB	96.5	15-244		%Rec	1	11/14/2023 1:47:23 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	11/14/2023 1:47:23 PM
Toluene	ND	0.049		mg/Kg	1	11/14/2023 1:47:23 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/14/2023 1:47:23 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/14/2023 1:47:23 PM
Surr: 4-Bromofluorobenzene	94.7	39.1-146		%Rec	1	11/14/2023 1:47:23 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	11/13/2023 7:03:16 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311281

17-Nov-23

Client: Vertex Resources Services, Inc.**Project:** Gaucho Unit 6H

Sample ID: MB-78743	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 78743		RunNo: 101147							
Prep Date: 11/13/2023	Analysis Date: 11/13/2023		SeqNo: 3715881		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78743	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 78743		RunNo: 101147							
Prep Date: 11/13/2023	Analysis Date: 11/13/2023		SeqNo: 3715882		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.3	90	110			

Sample ID: MB-78744	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 78744		RunNo: 101147							
Prep Date: 11/13/2023	Analysis Date: 11/13/2023		SeqNo: 3715883		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78744	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 78744		RunNo: 101147							
Prep Date: 11/13/2023	Analysis Date: 11/13/2023		SeqNo: 3715884		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.9	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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311281

17-Nov-23

Client: Vertex Resources Services, Inc.**Project:** Gaucho Unit 6H

Sample ID: LCS-78707	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 78707			RunNo: 101124						
Prep Date: 11/10/2023	Analysis Date: 11/13/2023			SeqNo: 3714787	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		89.0	69	147			

Sample ID: LCS-78749	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 78749			RunNo: 101124						
Prep Date: 11/13/2023	Analysis Date: 11/13/2023			SeqNo: 3714788	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.4	61.9	130			
Surr: DNOP	4.6		5.000		91.2	69	147			

Sample ID: MB-78707	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 78707			RunNo: 101124						
Prep Date: 11/10/2023	Analysis Date: 11/13/2023			SeqNo: 3714789	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.8		10.00		98.5	69	147			

Sample ID: MB-78749	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 78749			RunNo: 101124						
Prep Date: 11/13/2023	Analysis Date: 11/13/2023			SeqNo: 3714790	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.7		10.00		87.3	69	147			

Sample ID: 2311281-001AMS	SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BH23-54 8'	Batch ID: 78749			RunNo: 101124						
Prep Date: 11/13/2023	Analysis Date: 11/13/2023			SeqNo: 3715645	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.7	48.64	0	89.9	54.2	135			
Surr: DNOP	4.6		4.864		95.3	69	147			

Sample ID: 2311281-001AMSD	SampType: MSD			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BH23-54 8'	Batch ID: 78749			RunNo: 101124						
Prep Date: 11/13/2023	Analysis Date: 11/13/2023			SeqNo: 3715646	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	9.4	47.17	0	76.8	54.2	135	18.7	29.2	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311281

17-Nov-23

Client: Vertex Resources Services, Inc.
Project: Gaucho Unit 6H

Sample ID: 2311281-001AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BH23-54 8'		Batch ID: 78749		RunNo: 101124						
Prep Date: 11/13/2023		Analysis Date: 11/13/2023		SeqNo: 3715646		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		4.717		88.5	69	147	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 standard limits. If undiluted results may be estimated.
- B

Analyte detected in the associated Method Blank
- E

Above Quantitation Range/Estimated Value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311281

17-Nov-23

Client: Vertex Resources Services, Inc.

Project: Gaucho Unit 6H

Sample ID: ics-78714	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 78714			RunNo: 101125						
Prep Date: 11/10/2023	Analysis Date: 11/11/2023			SeqNo: 3713950		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.9	70	130			
Surr: BFB	2000		1000		199	15	244			

Sample ID: ics-78716	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 78716			RunNo: 101125						
Prep Date: 11/10/2023	Analysis Date: 11/12/2023			SeqNo: 3713952		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.7	70	130			
Surr: BFB	1900		1000		189	15	244			

Sample ID: mb-78714	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 78714			RunNo: 101125						
Prep Date: 11/10/2023	Analysis Date: 11/11/2023			SeqNo: 3713956		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		93.9	15	244			

Sample ID: mb-78716	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 78716			RunNo: 101125						
Prep Date: 11/10/2023	Analysis Date: 11/12/2023			SeqNo: 3713958		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	880		1000		88.4	15	244			

Sample ID: 2311281-005ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH23-61 0'	Batch ID: 78716			RunNo: 101125						
Prep Date: 11/10/2023	Analysis Date: 11/12/2023			SeqNo: 3714049		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.44	0	101	70	130			
Surr: BFB	2000		977.5		202	15	244			

Sample ID: 2311281-005amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH23-61 0'	Batch ID: 78716			RunNo: 101125						
Prep Date: 11/10/2023	Analysis Date: 11/12/2023			SeqNo: 3714050		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.44	0	101	70	130			
Surr: BFB	2000		977.5		202	15	244			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311281

17-Nov-23

Client: Vertex Resources Services, Inc.

Project: Gaucho Unit 6H

Sample ID: 2311281-005amsd		SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH23-61 0'		Batch ID: 78716			RunNo: 101125					
Prep Date: 11/10/2023		Analysis Date: 11/12/2023			SeqNo: 3714050		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.44	0	96.0	70	130	5.31	20	
Surr: BFB	2000		977.5		201	15	244	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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311281

17-Nov-23

Client: Vertex Resources Services, Inc.**Project:** Gaucho Unit 6H

Sample ID: LCS-78714	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 78714		RunNo: 101125							
Prep Date: 11/10/2023	Analysis Date: 11/11/2023		SeqNo: 3714081		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.2	70	130			
Toluene	0.97	0.050	1.000	0	96.6	70	130			
Ethylbenzene	0.98	0.050	1.000	0	97.9	70	130			
Xylenes, Total	3.0	0.10	3.000	0	98.4	70	130			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.8	39.1	146			

Sample ID: LCS-78716	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 78716		RunNo: 101125							
Prep Date: 11/10/2023	Analysis Date: 11/12/2023		SeqNo: 3714082		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	70	130			
Toluene	1.0	0.050	1.000	0	102	70	130			
Ethylbenzene	1.0	0.050	1.000	0	102	70	130			
Xylenes, Total	3.0	0.10	3.000	0	102	70	130			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.7	39.1	146			

Sample ID: mb-78714	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 78714		RunNo: 101125							
Prep Date: 11/10/2023	Analysis Date: 11/11/2023		SeqNo: 3714084		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.0	39.1	146			

Sample ID: mb-78716	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 78716		RunNo: 101125							
Prep Date: 11/10/2023	Analysis Date: 11/12/2023		SeqNo: 3714085		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		93.8	39.1	146			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311281

17-Nov-23

Client: Vertex Resources Services, Inc.**Project:** Gaucho Unit 6H

Sample ID: 2311281-006ams	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: BH23-61 2'	Batch ID: 78716			RunNo: 101125						
Prep Date: 11/10/2023	Analysis Date: 11/12/2023			SeqNo: 3714113			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9699	0	104	70	130			
Toluene	1.0	0.048	0.9699	0	106	70	130			
Ethylbenzene	1.0	0.048	0.9699	0	108	70	130			
Xylenes, Total	3.1	0.097	2.910	0	108	70	130			
Surr: 4-Bromofluorobenzene	0.94		0.9699		97.1	39.1	146			

Sample ID: 2311281-006amsd		SampType: MSD		TestCode: EPA Method 8021B: Volatiles						
Client ID: BH23-61 2'		Batch ID: 78716		RunNo: 101125						
Prep Date: 11/10/2023		Analysis Date: 11/12/2023		SeqNo: 3714114		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	0.9804	0	100	70	130	2.13	20	
Toluene	1.0	0.049	0.9804	0	103	70	130	1.35	20	
Ethylbenzene	1.0	0.049	0.9804	0	105	70	130	1.75	20	
Xylenes, Total	3.1	0.098	2.941	0	105	70	130	2.07	20	
Surr: 4-Bromofluorobenzene	0.96		0.9804		97.9	39.1	146	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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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Sample Log-In Check List

Client Name: Vertex Resources

Work Order Number: 2311281

RcptNo: 1

Received By: Juan Rojas

11/7/2023 7:25:00 AM

Completed By: Cheyenne Cason

11/7/2023 8:25:19 AM

Reviewed By:

SUM 11/7/23

*[Signature]**[Signature]*Chain of Custody1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐2. How was the sample delivered? ClientLog In3. 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:

JN 11/7/23

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	0.5	Good	Not Present	Yogi		

Chain-of-Custody Record

Client: Vertex / Devon

Mailing Address: on file

Phone #:

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☒ Rush 5 Day

Project Name:
Gaucha unit 6H

Project #:
23C-05499

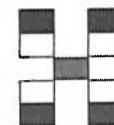
Project Manager:
Kent Staligys

Sampler: Devaran / Alexis

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): 0.4 to 1 = 0.5 (°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	Ch F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
11/3/23	10:10	Soil	BH23-54 8'	42	Ice	001										
	10:15		BH23-54 10'			002										
	10:00		BH23-60 0'			003										
	10:03		BH23-60 2'			004										
	10:12		BH23-61 0'			005										
	10:16		BH23-61 2'			006										
	10:26		BH23-62 0'			007										
	10:30		BH23-62 2'			008										
	10:44		BH23-63 0'			009										
	10:47		BH23-63 2'			010										
	10:51		BH23-64 0'			011										
	10:57		BH23-64 2'			012										

Date: 11/3/23 Time: 11:05 Relinquished by: Devaran Cont/De Received by: Devaran Via: 11/6/23 Date: 11/6/23 Time: 10:15

Date: 11/6/23 Time: 11:00 Relinquished by: Devaran Received by: Devaran Via: 11/7/23 7:25 Date: 11/7/23 Time: 7:25

Remarks: W10 2122 2677
please cc smccontg@vertex.ca



Environment Testing

Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

February 14, 2024

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL:

FAX:

RE: Gaucho Unit 006

OrderNo.: 2402095

Dear Kent Stallings:

Eurofins Environment Testing South Central, LLC received 3 sample(s) on 2/2/2024 for the analyses presented in the following report.

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

Please do not hesitate to contact Eurofins Albuquerque 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", with a stylized flourish at the end.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2402095

Date Reported: 2/14/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-42 12'

Project: Gaucho Unit 006

Collection Date: 1/31/2024 9:00:00 AM

Lab ID: 2402095-001

Matrix: SOIL

Received Date: 2/2/2024 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/5/2024 6:29:27 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/5/2024 6:29:27 PM
Surr: DNOP	106	61.2-134		%Rec	1	2/5/2024 6:29:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/7/2024 12:30:23 PM
Surr: BFB	104	15-244		%Rec	1	2/7/2024 12:30:23 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/7/2024 12:30:23 PM
Toluene	ND	0.048		mg/Kg	1	2/7/2024 12:30:23 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/7/2024 12:30:23 PM
Xylenes, Total	ND	0.095		mg/Kg	1	2/7/2024 12:30:23 PM
Surr: 4-Bromofluorobenzene	89.8	39.1-146		%Rec	1	2/7/2024 12:30:23 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	660	59		mg/Kg	20	2/6/2024 4:39:40 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Page 1 of 7

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-48 11'

Project: Gaucho Unit 006

Collection Date: 1/31/2024 10:00:00 AM

Lab ID: 2402095-002

Matrix: SOIL

Received Date: 2/2/2024 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	2/5/2024 6:53:01 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/5/2024 6:53:01 PM
Surr: DNOP	105	61.2-134		%Rec	1	2/5/2024 6:53:01 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/7/2024 12:54:13 PM
Surr: BFB	104	15-244		%Rec	1	2/7/2024 12:54:13 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	2/7/2024 12:54:13 PM
Toluene	ND	0.046		mg/Kg	1	2/7/2024 12:54:13 PM
Ethylbenzene	ND	0.046		mg/Kg	1	2/7/2024 12:54:13 PM
Xylenes, Total	ND	0.093		mg/Kg	1	2/7/2024 12:54:13 PM
Surr: 4-Bromofluorobenzene	89.5	39.1-146		%Rec	1	2/7/2024 12:54:13 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	61		mg/Kg	20	2/6/2024 5:25:09 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

CLIENT: Vertex Resources Services, Inc.
Project: Gaucho Unit 006
Lab ID: 2402095-003

Client Sample ID: BH23-52 13'
Collection Date: 1/31/2024 12:00:00 PM
Received Date: 2/2/2024 7:40:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	2/5/2024 7:16:32 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	2/5/2024 7:16:32 PM
Surr: DNOP	106	61.2-134		%Rec	1	2/5/2024 7:16:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/7/2024 1:18:02 PM
Surr: BFB	106	15-244		%Rec	1	2/7/2024 1:18:02 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/7/2024 1:18:02 PM
Toluene	ND	0.050		mg/Kg	1	2/7/2024 1:18:02 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/7/2024 1:18:02 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/7/2024 1:18:02 PM
Surr: 4-Bromofluorobenzene	90.8	39.1-146		%Rec	1	2/7/2024 1:18:02 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	130	60		mg/Kg	20	2/6/2024 6:40:55 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402095

14-Feb-24

Client: Vertex Resources Services, Inc.

Project: Gaucho Unit 006

Sample ID: MB-80270	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 80270	RunNo: 102914								
Prep Date: 2/6/2024	Analysis Date: 2/6/2024	SeqNo: 3803181	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-80270	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 80270	RunNo: 102914								
Prep Date: 2/6/2024	Analysis Date: 2/6/2024	SeqNo: 3803182	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.2	90	110			

- Qualifiers:
- *

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

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

- B

Analyte detected in the associated Method Blank
- E

Above Quantitation Range/Estimated Value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402095

14-Feb-24

Client: Vertex Resources Services, Inc.

Project: Gaucho Unit 006

Sample ID: MB-80265	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 80265	RunNo: 102881								
Prep Date: 2/5/2024	Analysis Date: 2/5/2024	SeqNo: 3801657		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	61.2	134			

Sample ID: LCS-80265	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 80265	RunNo: 102881								
Prep Date: 2/5/2024	Analysis Date: 2/5/2024	SeqNo: 3801658		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	103	59.7	135			
Surr: DNOP	4.9		5.000		97.7	61.2	134			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

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

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402095

14-Feb-24

Client: Vertex Resources Services, Inc.
Project: Gaucho Unit 006

Sample ID: ics-80257	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 80257	RunNo: 102936								
Prep Date: 2/5/2024	Analysis Date: 2/7/2024	SeqNo: 3803969 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	70	130			
Surr: BFB	2200		1000		216	15	244			

Sample ID: mb-80257	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 80257	RunNo: 102936								
Prep Date: 2/5/2024	Analysis Date: 2/7/2024	SeqNo: 3803970 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	15	244			

Sample ID: 2402095-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH23-42 13'	Batch ID: 80257	RunNo: 102936								
Prep Date: 2/5/2024	Analysis Date: 2/7/2024	SeqNo: 3804492 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.7	23.67	0	105	70	130			
Surr: BFB	2000		947.0		213	15	244			

Sample ID: 2402095-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH23-42 13'	Batch ID: 80257	RunNo: 102936								
Prep Date: 2/5/2024	Analysis Date: 2/7/2024	SeqNo: 3804493 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	23.81	0	103	70	130	1.63	20	
Surr: BFB	2000		952.4		211	15	244	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 standard limits. If undiluted results may be estimated.
- B

Analyte detected in the associated Method Blank
- E

Above Quantitation Range/Estimated Value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402095

14-Feb-24

Client: Vertex Resources Services, Inc.

Project: Gaucho Unit 006

Sample ID: LCS-80257	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 80257		RunNo: 102936							
Prep Date: 2/5/2024	Analysis Date: 2/7/2024		SeqNo: 3803972		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.0	70	130			
Toluene	0.88	0.050	1.000	0	88.3	70	130			
Ethylbenzene	0.90	0.050	1.000	0	89.8	70	130			
Xylenes, Total	2.7	0.10	3.000	0	90.7	70	130			
Surr: 4-Bromofluorobenzene	0.90		1.000		90.0	39.1	146			

Sample ID: mb-80257	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 80257		RunNo: 102936							
Prep Date: 2/5/2024	Analysis Date: 2/7/2024		SeqNo: 3803973		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		89.2	39.1	146			

Sample ID: 2402095-002ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH23-48 11'	Batch ID: 80257		RunNo: 102936							
Prep Date: 2/5/2024	Analysis Date: 2/7/2024		SeqNo: 3804496		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.023	0.9363	0	87.2	70	130			
Toluene	0.82	0.047	0.9363	0	87.7	70	130			
Ethylbenzene	0.83	0.047	0.9363	0	88.4	70	130			
Xylenes, Total	2.5	0.094	2.809	0	88.9	70	130			
Surr: 4-Bromofluorobenzene	0.82		0.9363		87.4	39.1	146			

Sample ID: 2402095-002amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH23-48 11'	Batch ID: 80257		RunNo: 102936							
Prep Date: 2/5/2024	Analysis Date: 2/7/2024		SeqNo: 3804497		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.77	0.023	0.9363	0	81.9	70	130	6.31	20	
Toluene	0.79	0.047	0.9363	0	84.8	70	130	3.43	20	
Ethylbenzene	0.80	0.047	0.9363	0	85.7	70	130	3.17	20	
Xylenes, Total	2.4	0.094	2.809	0	86.7	70	130	2.48	20	
Surr: 4-Bromofluorobenzene	0.81		0.9363		86.8	39.1	146	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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 7 of 7

Sample Log-In Check List

RcptNo: 1

2/2/2024 7:40:00 AM

2/2/2024 9:05:56 AM

Reviewed By:

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 <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 5. Sample(s) in proper container(s)? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Sufficient sample volume for indicated test(s)? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Are samples (except VOA and ONG) properly preserved? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Was preservative added to bottles? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | NA <input type="checkbox"/> |
| 9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 10. Were any sample containers received broken? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| 11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Are matrices correctly identified on Chain of Custody? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 13. Is it clear what analyses were requested? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 14. Were all holding times able to be met?
(If no, notify customer for authorization.) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
- # of preserved bottles checked for pH: (<2)

Adjusted?

Checked by: _____

of preserved bottles checked for pH:

(<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:

Mailing address, phone number, and Email/Fax are missing on COC- TMC 2/2/24

- ## 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes	Morty		

Chain-of-Custody Record

Client: Vertex / Deun

Mailing Address: On file

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☒ Standard ☒ Rush 5 Day

Project Name:

Gavcho Unit #006

Project #:

23E-05499

Project Manager:

Kent Stallings

Sampler: 7 E

On Ice: ☒ Yes ☐ No *marty*

of Coolers: 1

Cooler Temp (including CF): $1.4 \pm 0 = 1.4$ (°C)

Date	Time	Matrix	Sample Name
------	------	--------	-------------

Container Type and #	Preservative Type
-------------------------	----------------------

HEAL No.
7402095

1/21/24	9:00	Soil	BH23-42 12'
↓	10:00	↓	BH23-48 11'
↓	12:00	↓	BH23-52 13'

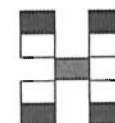
402 jar	Ice
---------	-----

Ice

001

002

003



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTX 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
Cd, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄
8260 (VOA)
8270 (Semi-VOA)
Total Coliform (Present/Absent)

Date: 2/1/24	Time: 1130	Relinquished by: Step Mcelf
Date: 2/1/24	Time: 1900	Relinquished by: C. C. C.

Received by:	Via:	Date	Time
C. Munnig		2/1/24	1130
Received by:	Via: Canner	Date	Time
		2/12/24	7:40

Remarks: Direct bill to: Deun
W/U #: 21222677
C.C. Kstallings@vertex.a
Smccartn@vertex.a



Environment Testing

- 1
- 2
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- 10
- 11

ANALYTICAL REPORT

PREPARED FOR

Attn: Chad Hensley
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 10/3/2024 12:59:29 PM

JOB DESCRIPTION

Gaucho Unit 6

JOB NUMBER

885-12300-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.
Released to Imaging: 2/25/2025 11:04:45 AM

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



Authorized for release by
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(505)345-3975

Generated
10/3/2024 12:59:29 PM

Client: Vertex
Project/Site: Gaucho Unit 6

Laboratory Job ID: 885-12300-1



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Definitions/Glossary

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: Gaucho Unit 6

Job ID: 885-12300-1

Job ID: 885-12300-1Eurofins Albuquerque

Job Narrative
885-12300-1

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 9/21/2024 8:05 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 2.5°C.

Receipt Exceptions

COC states sample names of BES24/WES24-XX @ X' and Labels only state BES/WES-XX-X'. No 24 on them. The lab is using the COC names

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: BES24-01 @ 2'

Lab Sample ID: 885-12300-1

Date Collected: 09/16/24 10:15

Matrix: Solid

Date Received: 09/21/24 08:05

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		09/23/24 10:14	09/24/24 19:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			09/23/24 10:14	09/24/24 19:44	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/23/24 10:14	09/24/24 19:44	1
Ethylbenzene	ND		0.048	mg/Kg		09/23/24 10:14	09/24/24 19:44	1
Toluene	ND		0.048	mg/Kg		09/23/24 10:14	09/24/24 19:44	1
Xylenes, Total	ND		0.095	mg/Kg		09/23/24 10:14	09/24/24 19:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		48 - 145			09/23/24 10:14	09/24/24 19:44	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]	55		9.3	mg/Kg		09/24/24 09:41	09/24/24 12:42	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		09/24/24 09:41	09/24/24 12:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	93		62 - 134			09/24/24 09:41	09/24/24 12:42	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	610		60	mg/Kg		09/24/24 13:42	09/24/24 15:32	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: BES24-02 @ 2'

Lab Sample ID: 885-12300-2

Date Collected: 09/16/24 10:18

Matrix: Solid

Date Received: 09/21/24 08:05

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		09/23/24 10:14	09/24/24 20:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166			09/23/24 10:14	09/24/24 20:55	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/23/24 10:14	09/24/24 20:55	1
Ethylbenzene	ND		0.049	mg/Kg		09/23/24 10:14	09/24/24 20:55	1
Toluene	ND		0.049	mg/Kg		09/23/24 10:14	09/24/24 20:55	1
Xylenes, Total	ND		0.099	mg/Kg		09/23/24 10:14	09/24/24 20:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		48 - 145			09/23/24 10:14	09/24/24 20:55	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]	88		9.0	mg/Kg		09/24/24 09:41	09/24/24 12:54	1
Motor Oil Range Organics [C28-C40]	61		45	mg/Kg		09/24/24 09:41	09/24/24 12:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	80		62 - 134			09/24/24 09:41	09/24/24 12:54	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		09/24/24 13:42	09/24/24 16:11	20

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Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: BES24-03 @ 2'

Lab Sample ID: 885-12300-3

Date Collected: 09/16/24 10:21

Matrix: Solid

Date Received: 09/21/24 08:05

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		09/23/24 10:14	09/24/24 22:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166			09/23/24 10:14	09/24/24 22:05	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/23/24 10:14	09/24/24 22:05	1
Ethylbenzene	ND		0.049	mg/Kg		09/23/24 10:14	09/24/24 22:05	1
Toluene	ND		0.049	mg/Kg		09/23/24 10:14	09/24/24 22:05	1
Xylenes, Total	ND		0.099	mg/Kg		09/23/24 10:14	09/24/24 22:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		48 - 145			09/23/24 10:14	09/24/24 22:05	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		09/24/24 09:41	09/24/24 13:06	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/24/24 09:41	09/24/24 13:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	83		62 - 134			09/24/24 09:41	09/24/24 13:06	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		60	mg/Kg		09/24/24 13:42	09/24/24 16:23	20

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Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: BES24-04 @ 2'

Lab Sample ID: 885-12300-4

Date Collected: 09/16/24 10:27

Matrix: Solid

Date Received: 09/21/24 08:05

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		09/23/24 10:14	09/24/24 22:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		35 - 166			09/23/24 10:14	09/24/24 22:53	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/23/24 10:14	09/24/24 22:53	1
Ethylbenzene	ND		0.049	mg/Kg		09/23/24 10:14	09/24/24 22:53	1
Toluene	ND		0.049	mg/Kg		09/23/24 10:14	09/24/24 22:53	1
Xylenes, Total	ND		0.099	mg/Kg		09/23/24 10:14	09/24/24 22:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		48 - 145			09/23/24 10:14	09/24/24 22:53	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]	9.9		9.4	mg/Kg		09/24/24 09:41	09/24/24 13:18	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/24/24 09:41	09/24/24 13:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	87		62 - 134			09/24/24 09:41	09/24/24 13:18	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1500		60	mg/Kg		09/24/24 13:42	09/24/24 16:36	20

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Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: BES24-05 @ 2'

Lab Sample ID: 885-12300-5

Date Collected: 09/16/24 10:31

Matrix: Solid

Date Received: 09/21/24 08:05

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		09/23/24 10:14	09/24/24 23:16	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	98		35 - 166			09/23/24 10:14	09/24/24 23:16	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		09/23/24 10:14	09/24/24 23:16	1	
Ethylbenzene	ND		0.048	mg/Kg		09/23/24 10:14	09/24/24 23:16	1	
Toluene	ND		0.048	mg/Kg		09/23/24 10:14	09/24/24 23:16	1	
Xylenes, Total	ND		0.096	mg/Kg		09/23/24 10:14	09/24/24 23:16	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	96		48 - 145			09/23/24 10:14	09/24/24 23:16	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		9.9	mg/Kg		09/24/24 09:41	09/24/24 13:30	1	
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/24/24 09:41	09/24/24 13:30	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	90		62 - 134			09/24/24 09:41	09/24/24 13:30	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	2300		60	mg/Kg		09/24/24 13:42	09/24/24 16:49	20	

Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: BES24-06 @ 2'

Lab Sample ID: 885-12300-6

Date Collected: 09/16/24 10:35

Matrix: Solid

Date Received: 09/21/24 08:05

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		09/23/24 10:14	09/25/24 00:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166			09/23/24 10:14	09/25/24 00:04	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/23/24 10:14	09/25/24 00:04	1
Ethylbenzene	ND		0.047	mg/Kg		09/23/24 10:14	09/25/24 00:04	1
Toluene	ND		0.047	mg/Kg		09/23/24 10:14	09/25/24 00:04	1
Xylenes, Total	ND		0.094	mg/Kg		09/23/24 10:14	09/25/24 00:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		48 - 145			09/23/24 10:14	09/25/24 00:04	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		9.2	mg/Kg		09/24/24 09:41	09/24/24 13:42	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		09/24/24 09:41	09/24/24 13:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			09/24/24 09:41	09/24/24 13:42	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400		60	mg/Kg		09/24/24 13:42	09/24/24 17:02	20

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Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: BES24-07 @ 2'

Lab Sample ID: 885-12300-7

Date Collected: 09/16/24 10:39

Matrix: Solid

Date Received: 09/21/24 08:05

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		09/23/24 10:14	09/25/24 00:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166			09/23/24 10:14	09/25/24 00:27	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/23/24 10:14	09/25/24 00:27	1
Ethylbenzene	ND		0.049	mg/Kg		09/23/24 10:14	09/25/24 00:27	1
Toluene	ND		0.049	mg/Kg		09/23/24 10:14	09/25/24 00:27	1
Xylenes, Total	ND		0.098	mg/Kg		09/23/24 10:14	09/25/24 00:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		48 - 145			09/23/24 10:14	09/25/24 00:27	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		8.5	mg/Kg		09/24/24 09:41	09/24/24 13:54	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		09/24/24 09:41	09/24/24 13:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	93		62 - 134			09/24/24 09:41	09/24/24 13:54	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1500		60	mg/Kg		09/24/24 13:42	09/24/24 17:41	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: BES24-08 @ 2'

Lab Sample ID: 885-12300-8

Date Collected: 09/16/24 10:43

Matrix: Solid

Date Received: 09/21/24 08:05

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		09/23/24 10:14	09/25/24 00:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		35 - 166			09/23/24 10:14	09/25/24 00:51	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		09/23/24 10:14	09/25/24 00:51	1
Ethylbenzene	ND		0.047	mg/Kg		09/23/24 10:14	09/25/24 00:51	1
Toluene	ND		0.047	mg/Kg		09/23/24 10:14	09/25/24 00:51	1
Xylenes, Total	ND		0.094	mg/Kg		09/23/24 10:14	09/25/24 00:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		48 - 145			09/23/24 10:14	09/25/24 00:51	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		09/24/24 09:41	09/24/24 14:06	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		09/24/24 09:41	09/24/24 14:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	85		62 - 134			09/24/24 09:41	09/24/24 14:06	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2200		150	mg/Kg		09/24/24 13:42	09/25/24 09:26	50

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Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: BES24-09 @ 2'

Lab Sample ID: 885-12300-9

Date Collected: 09/16/24 10:46

Matrix: Solid

Date Received: 09/21/24 08:05

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		09/23/24 10:14	09/25/24 01:15	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	102		35 - 166			09/23/24 10:14	09/25/24 01:15	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		09/23/24 10:14	09/25/24 01:15	1	
Ethylbenzene	ND		0.049	mg/Kg		09/23/24 10:14	09/25/24 01:15	1	
Toluene	ND		0.049	mg/Kg		09/23/24 10:14	09/25/24 01:15	1	
Xylenes, Total	ND		0.099	mg/Kg		09/23/24 10:14	09/25/24 01:15	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	100		48 - 145			09/23/24 10:14	09/25/24 01:15	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]	14		9.0	mg/Kg		09/24/24 09:41	09/24/24 14:18	1	
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		09/24/24 09:41	09/24/24 14:18	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	102		62 - 134			09/24/24 09:41	09/24/24 14:18	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1600		60	mg/Kg		09/24/24 13:42	09/24/24 18:06	20	

Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: BES24-10 @ 2'

Lab Sample ID: 885-12300-10

Date Collected: 09/16/24 10:48

Matrix: Solid

Date Received: 09/21/24 08:05

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		09/23/24 10:14	09/25/24 01:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		35 - 166			09/23/24 10:14	09/25/24 01:38	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/23/24 10:14	09/25/24 01:38	1
Ethylbenzene	ND		0.048	mg/Kg		09/23/24 10:14	09/25/24 01:38	1
Toluene	ND		0.048	mg/Kg		09/23/24 10:14	09/25/24 01:38	1
Xylenes, Total	ND		0.095	mg/Kg		09/23/24 10:14	09/25/24 01:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		48 - 145			09/23/24 10:14	09/25/24 01:38	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		8.5	mg/Kg		09/24/24 09:41	09/24/24 14:42	1
Motor Oil Range Organics [C28-C40]	ND		42	mg/Kg		09/24/24 09:41	09/24/24 14:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	84		62 - 134			09/24/24 09:41	09/24/24 14:42	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1900		60	mg/Kg		09/24/24 13:42	09/24/24 18:19	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: BES24-11 @ 2'

Lab Sample ID: 885-12300-11

Date Collected: 09/16/24 10:52

Matrix: Solid

Date Received: 09/21/24 08:05

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		09/23/24 10:14	09/25/24 02:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166			09/23/24 10:14	09/25/24 02:02	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/23/24 10:14	09/25/24 02:02	1
Ethylbenzene	ND		0.048	mg/Kg		09/23/24 10:14	09/25/24 02:02	1
Toluene	ND		0.048	mg/Kg		09/23/24 10:14	09/25/24 02:02	1
Xylenes, Total	ND		0.096	mg/Kg		09/23/24 10:14	09/25/24 02:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		48 - 145			09/23/24 10:14	09/25/24 02:02	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]	270		9.1	mg/Kg		09/24/24 09:41	09/24/24 14:54	1
Motor Oil Range Organics [C28-C40]	240		46	mg/Kg		09/24/24 09:41	09/24/24 14:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	88		62 - 134			09/24/24 09:41	09/24/24 14:54	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	690		60	mg/Kg		09/24/24 13:42	09/24/24 18:31	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: BES24-12 @ 2'

Lab Sample ID: 885-12300-12

Date Collected: 09/16/24 10:57

Matrix: Solid

Date Received: 09/21/24 08:05

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		09/23/24 10:14	09/25/24 02:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		35 - 166			09/23/24 10:14	09/25/24 02:26	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		09/23/24 10:14	09/25/24 02:26	1
Ethylbenzene	ND		0.047	mg/Kg		09/23/24 10:14	09/25/24 02:26	1
Toluene	ND		0.047	mg/Kg		09/23/24 10:14	09/25/24 02:26	1
Xylenes, Total	ND		0.094	mg/Kg		09/23/24 10:14	09/25/24 02:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		48 - 145			09/23/24 10:14	09/25/24 02:26	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		9.4	mg/Kg		09/24/24 09:41	09/24/24 15:06	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/24/24 09:41	09/24/24 15:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	83		62 - 134			09/24/24 09:41	09/24/24 15:06	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	750		60	mg/Kg		09/24/24 13:42	09/24/24 19:10	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: BES24-13 @ 2'

Lab Sample ID: 885-12300-13

Date Collected: 09/16/24 11:09

Matrix: Solid

Date Received: 09/21/24 08:05

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		09/23/24 10:14	09/25/24 02:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		35 - 166			09/23/24 10:14	09/25/24 02:50	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/23/24 10:14	09/25/24 02:50	1
Ethylbenzene	ND		0.049	mg/Kg		09/23/24 10:14	09/25/24 02:50	1
Toluene	ND		0.049	mg/Kg		09/23/24 10:14	09/25/24 02:50	1
Xylenes, Total	ND		0.098	mg/Kg		09/23/24 10:14	09/25/24 02:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		48 - 145			09/23/24 10:14	09/25/24 02:50	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		09/24/24 09:41	09/24/24 15:18	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/24/24 09:41	09/24/24 15:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	85		62 - 134			09/24/24 09:41	09/24/24 15:18	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	450		60	mg/Kg		09/24/24 13:42	09/24/24 19:23	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: BES24-14 @ 2'

Lab Sample ID: 885-12300-14

Date Collected: 09/16/24 11:01

Matrix: Solid

Date Received: 09/21/24 08:05

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		09/23/24 10:14	09/25/24 03:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		35 - 166			09/23/24 10:14	09/25/24 03:13	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/23/24 10:14	09/25/24 03:13	1
Ethylbenzene	ND		0.048	mg/Kg		09/23/24 10:14	09/25/24 03:13	1
Toluene	ND		0.048	mg/Kg		09/23/24 10:14	09/25/24 03:13	1
Xylenes, Total	ND		0.097	mg/Kg		09/23/24 10:14	09/25/24 03:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		48 - 145			09/23/24 10:14	09/25/24 03:13	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]	170		8.8	mg/Kg		09/24/24 09:41	09/24/24 15:30	1
Motor Oil Range Organics [C28-C40]	130		44	mg/Kg		09/24/24 09:41	09/24/24 15:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	87		62 - 134			09/24/24 09:41	09/24/24 15:30	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100		60	mg/Kg		09/24/24 13:42	09/24/24 19:36	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: BES24-15 @ 2'

Lab Sample ID: 885-12300-15

Date Collected: 09/16/24 11:05

Matrix: Solid

Date Received: 09/21/24 08:05

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		09/23/24 10:14	09/25/24 03:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166			09/23/24 10:14	09/25/24 03:37	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/23/24 10:14	09/25/24 03:37	1
Ethylbenzene	ND		0.048	mg/Kg		09/23/24 10:14	09/25/24 03:37	1
Toluene	ND		0.048	mg/Kg		09/23/24 10:14	09/25/24 03:37	1
Xylenes, Total	ND		0.097	mg/Kg		09/23/24 10:14	09/25/24 03:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		48 - 145			09/23/24 10:14	09/25/24 03:37	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]	770		19	mg/Kg		09/24/24 09:41	09/24/24 11:55	2
Motor Oil Range Organics [C28-C40]	780		94	mg/Kg		09/24/24 09:41	09/24/24 11:55	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			09/24/24 09:41	09/24/24 11:55	2

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	240		60	mg/Kg		09/24/24 13:42	09/24/24 20:14	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: BES24-16 @ 1'

Lab Sample ID: 885-12300-16

Date Collected: 09/16/24 11:17

Matrix: Solid

Date Received: 09/21/24 08:05

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		09/23/24 10:14	09/25/24 04:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		35 - 166			09/23/24 10:14	09/25/24 04:24	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/23/24 10:14	09/25/24 04:24	1
Ethylbenzene	ND		0.049	mg/Kg		09/23/24 10:14	09/25/24 04:24	1
Toluene	ND		0.049	mg/Kg		09/23/24 10:14	09/25/24 04:24	1
Xylenes, Total	ND		0.098	mg/Kg		09/23/24 10:14	09/25/24 04:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		48 - 145			09/23/24 10:14	09/25/24 04:24	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		9.3	mg/Kg		09/24/24 09:41	09/24/24 15:42	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/24/24 09:41	09/24/24 15:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	80		62 - 134			09/24/24 09:41	09/24/24 15:42	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	360		60	mg/Kg		09/24/24 13:42	09/24/24 20:27	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: BES24-17 @ 4'

Lab Sample ID: 885-12300-17

Date Collected: 09/16/24 11:42

Matrix: Solid

Date Received: 09/21/24 08:05

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		09/23/24 10:14	09/25/24 04:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166			09/23/24 10:14	09/25/24 04:48	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/23/24 10:14	09/25/24 04:48	1
Ethylbenzene	ND		0.048	mg/Kg		09/23/24 10:14	09/25/24 04:48	1
Toluene	ND		0.048	mg/Kg		09/23/24 10:14	09/25/24 04:48	1
Xylenes, Total	ND		0.097	mg/Kg		09/23/24 10:14	09/25/24 04:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		48 - 145			09/23/24 10:14	09/25/24 04:48	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		09/24/24 09:41	09/24/24 15:54	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/24/24 09:41	09/24/24 15:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	82		62 - 134			09/24/24 09:41	09/24/24 15:54	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	240		60	mg/Kg		09/24/24 13:42	09/24/24 20:40	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: BES24-18 @ 4'

Lab Sample ID: 885-12300-18

Date Collected: 09/16/24 11:40

Matrix: Solid

Date Received: 09/21/24 08:05

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		09/23/24 10:14	09/25/24 05:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166			09/23/24 10:14	09/25/24 05:11	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/23/24 10:14	09/25/24 05:11	1
Ethylbenzene	ND		0.049	mg/Kg		09/23/24 10:14	09/25/24 05:11	1
Toluene	ND		0.049	mg/Kg		09/23/24 10:14	09/25/24 05:11	1
Xylenes, Total	ND		0.098	mg/Kg		09/23/24 10:14	09/25/24 05:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		48 - 145			09/23/24 10:14	09/25/24 05:11	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		8.7	mg/Kg		09/24/24 09:41	09/24/24 16:06	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		09/24/24 09:41	09/24/24 16:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	79		62 - 134			09/24/24 09:41	09/24/24 16:06	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	950		60	mg/Kg		09/24/24 13:42	09/24/24 20:53	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: BES24-19 @ 4'

Lab Sample ID: 885-12300-19

Date Collected: 09/16/24 11:26

Matrix: Solid

Date Received: 09/21/24 08:05

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		09/23/24 10:14	09/25/24 05:35	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	101		35 - 166			09/23/24 10:14	09/25/24 05:35	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		09/23/24 10:14	09/25/24 05:35	1	
Ethylbenzene	ND		0.047	mg/Kg		09/23/24 10:14	09/25/24 05:35	1	
Toluene	ND		0.047	mg/Kg		09/23/24 10:14	09/25/24 05:35	1	
Xylenes, Total	ND		0.095	mg/Kg		09/23/24 10:14	09/25/24 05:35	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	99		48 - 145			09/23/24 10:14	09/25/24 05:35	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		9.3	mg/Kg		09/24/24 09:41	09/24/24 16:18	1	
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/24/24 09:41	09/24/24 16:18	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	78		62 - 134			09/24/24 09:41	09/24/24 16:18	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	410		60	mg/Kg		09/24/24 13:42	09/24/24 21:06	20	

Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: BES24-20 @ 4'

Lab Sample ID: 885-12300-20

Date Collected: 09/16/24 11:35

Matrix: Solid

Date Received: 09/21/24 08:05

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		09/23/24 10:14	09/25/24 05:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166			09/23/24 10:14	09/25/24 05:59	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/23/24 10:14	09/25/24 05:59	1
Ethylbenzene	ND		0.049	mg/Kg		09/23/24 10:14	09/25/24 05:59	1
Toluene	ND		0.049	mg/Kg		09/23/24 10:14	09/25/24 05:59	1
Xylenes, Total	ND		0.098	mg/Kg		09/23/24 10:14	09/25/24 05:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		48 - 145			09/23/24 10:14	09/25/24 05:59	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		09/24/24 09:41	09/24/24 16:55	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/24/24 09:41	09/24/24 16:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	92		62 - 134			09/24/24 09:41	09/24/24 16:55	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		09/24/24 13:42	09/24/24 21:18	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: WES24-01 @ 0-2'

Lab Sample ID: 885-12300-21

Date Collected: 09/16/24 11:19

Matrix: Solid

Date Received: 09/21/24 08:05

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		09/23/24 11:46	09/25/24 04:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		35 - 166			09/23/24 11:46	09/25/24 04:17	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/23/24 11:46	09/25/24 04:17	1
Ethylbenzene	ND		0.048	mg/Kg		09/23/24 11:46	09/25/24 04:17	1
Toluene	ND		0.048	mg/Kg		09/23/24 11:46	09/25/24 04:17	1
Xylenes, Total	ND		0.096	mg/Kg		09/23/24 11:46	09/25/24 04:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		48 - 145			09/23/24 11:46	09/25/24 04:17	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		09/24/24 10:13	09/25/24 08:26	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/24/24 10:13	09/25/24 08:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	89		62 - 134			09/24/24 10:13	09/25/24 08:26	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66	F2 F1	60	mg/Kg		09/24/24 14:14	09/24/24 16:36	20

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Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: WES24-02 @ 0-2'

Lab Sample ID: 885-12300-22

Date Collected: 09/16/24 11:15

Matrix: Solid

Date Received: 09/21/24 08:05

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		09/23/24 11:46	09/25/24 05:23	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	109		35 - 166			09/23/24 11:46	09/25/24 05:23	1	

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		09/23/24 11:46	09/25/24 05:23	1	
Ethylbenzene	ND		0.049	mg/Kg		09/23/24 11:46	09/25/24 05:23	1	
Toluene	ND		0.049	mg/Kg		09/23/24 11:46	09/25/24 05:23	1	
Xylenes, Total	ND		0.099	mg/Kg		09/23/24 11:46	09/25/24 05:23	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	103		48 - 145			09/23/24 11:46	09/25/24 05:23	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		09/24/24 10:13	09/25/24 08:14	1	
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/24/24 10:13	09/25/24 08:14	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	87		62 - 134			09/24/24 10:13	09/25/24 08:14	1	

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	410		60	mg/Kg		09/24/24 14:14	09/24/24 17:14	20	

Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: WES24-03 @ 0-2'

Lab Sample ID: 885-12300-23

Date Collected: 09/16/24 11:10

Matrix: Solid

Date Received: 09/21/24 08:05

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		09/23/24 11:46	09/25/24 06:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		35 - 166			09/23/24 11:46	09/25/24 06:28	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/23/24 11:46	09/25/24 06:28	1
Ethylbenzene	ND		0.049	mg/Kg		09/23/24 11:46	09/25/24 06:28	1
Toluene	ND		0.049	mg/Kg		09/23/24 11:46	09/25/24 06:28	1
Xylenes, Total	ND		0.098	mg/Kg		09/23/24 11:46	09/25/24 06:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		48 - 145			09/23/24 11:46	09/25/24 06:28	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		09/24/24 10:13	09/25/24 08:38	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/24/24 10:13	09/25/24 08:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	89		62 - 134			09/24/24 10:13	09/25/24 08:38	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		09/24/24 14:14	09/24/24 17:27	20

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Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: WES24-04 @ 0-2' Lab Sample ID: 885-12300-24
Date Collected: 09/16/24 11:14 Matrix: Solid
Date Received: 09/21/24 08:05

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		09/23/24 11:46	09/25/24 06:50		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	108		35 - 166			09/23/24 11:46	09/25/24 06:50		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		09/23/24 11:46	09/25/24 06:50		1
Ethylbenzene	ND		0.049	mg/Kg		09/23/24 11:46	09/25/24 06:50		1
Toluene	ND		0.049	mg/Kg		09/23/24 11:46	09/25/24 06:50		1
Xylenes, Total	ND		0.099	mg/Kg		09/23/24 11:46	09/25/24 06:50		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	107		48 - 145			09/23/24 11:46	09/25/24 06:50		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		09/24/24 10:13	09/25/24 08:50		1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		09/24/24 10:13	09/25/24 08:50		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	92		62 - 134			09/24/24 10:13	09/25/24 08:50		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	230		60	mg/Kg		09/24/24 14:14	09/24/24 17:40		20

Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: WES24-05 @ 0-1'

Lab Sample ID: 885-12300-25

Date Collected: 09/16/24 11:21

Matrix: Solid

Date Received: 09/21/24 08:05

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		09/23/24 11:46	09/25/24 07:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		35 - 166			09/23/24 11:46	09/25/24 07:12	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/23/24 11:46	09/25/24 07:12	1
Ethylbenzene	ND		0.049	mg/Kg		09/23/24 11:46	09/25/24 07:12	1
Toluene	ND		0.049	mg/Kg		09/23/24 11:46	09/25/24 07:12	1
Xylenes, Total	ND		0.097	mg/Kg		09/23/24 11:46	09/25/24 07:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		48 - 145			09/23/24 11:46	09/25/24 07:12	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		09/24/24 10:13	09/25/24 09:02	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		09/24/24 10:13	09/25/24 09:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			09/24/24 10:13	09/25/24 09:02	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	400		59	mg/Kg		09/24/24 14:14	09/24/24 17:53	20

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Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: WES24-06 @ 0-4'

Lab Sample ID: 885-12300-26

Date Collected: 09/16/24 11:37

Matrix: Solid

Date Received: 09/21/24 08:05

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		09/23/24 11:46	09/25/24 07:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		35 - 166			09/23/24 11:46	09/25/24 07:34	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/23/24 11:46	09/25/24 07:34	1
Ethylbenzene	ND		0.049	mg/Kg		09/23/24 11:46	09/25/24 07:34	1
Toluene	ND		0.049	mg/Kg		09/23/24 11:46	09/25/24 07:34	1
Xylenes, Total	ND		0.098	mg/Kg		09/23/24 11:46	09/25/24 07:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		48 - 145			09/23/24 11:46	09/25/24 07:34	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		9.5	mg/Kg		09/24/24 10:13	09/25/24 09:14	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/24/24 10:13	09/25/24 09:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	85		62 - 134			09/24/24 10:13	09/25/24 09:14	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		09/24/24 14:14	09/24/24 18:06	20

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Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: WES24-07 @ 0-4'

Lab Sample ID: 885-12300-27

Date Collected: 09/16/24 11:44

Matrix: Solid

Date Received: 09/21/24 08:05

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		09/23/24 11:46	09/25/24 07:55	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	112		35 - 166			09/23/24 11:46	09/25/24 07:55	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		09/23/24 11:46	09/25/24 07:55	1	
Ethylbenzene	ND		0.047	mg/Kg		09/23/24 11:46	09/25/24 07:55	1	
Toluene	ND		0.047	mg/Kg		09/23/24 11:46	09/25/24 07:55	1	
Xylenes, Total	ND		0.094	mg/Kg		09/23/24 11:46	09/25/24 07:55	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	102		48 - 145			09/23/24 11:46	09/25/24 07:55	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		8.8	mg/Kg		09/24/24 10:13	09/25/24 09:25	1	
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		09/24/24 10:13	09/25/24 09:25	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	82		62 - 134			09/24/24 10:13	09/25/24 09:25	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	64		60	mg/Kg		09/24/24 14:14	09/24/24 18:19	20	

Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: WES24-08 @ 0-4'

Lab Sample ID: 885-12300-28

Date Collected: 09/16/24 11:29

Matrix: Solid

Date Received: 09/21/24 08:05

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		09/23/24 11:46	09/25/24 08:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		35 - 166			09/23/24 11:46	09/25/24 08:17	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/23/24 11:46	09/25/24 08:17	1
Ethylbenzene	ND		0.049	mg/Kg		09/23/24 11:46	09/25/24 08:17	1
Toluene	ND		0.049	mg/Kg		09/23/24 11:46	09/25/24 08:17	1
Xylenes, Total	ND		0.099	mg/Kg		09/23/24 11:46	09/25/24 08:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		48 - 145			09/23/24 11:46	09/25/24 08:17	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		09/24/24 10:13	09/25/24 09:37	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/24/24 10:13	09/25/24 09:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	80		62 - 134			09/24/24 10:13	09/25/24 09:37	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	950		60	mg/Kg		09/24/24 14:14	09/24/24 18:32	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: WES24-09 @ 0-4'

Lab Sample ID: 885-12300-29

Date Collected: 09/16/24 11:33

Matrix: Solid

Date Received: 09/21/24 08:05

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		4.6	mg/Kg		09/23/24 11:46	09/25/24 08:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		35 - 166			09/23/24 11:46	09/25/24 08:39	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		09/23/24 11:46	09/25/24 08:39	1
Ethylbenzene	ND		0.046	mg/Kg		09/23/24 11:46	09/25/24 08:39	1
Toluene	ND		0.046	mg/Kg		09/23/24 11:46	09/25/24 08:39	1
Xylenes, Total	ND		0.092	mg/Kg		09/23/24 11:46	09/25/24 08:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		48 - 145			09/23/24 11:46	09/25/24 08:39	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		8.9	mg/Kg		09/24/24 10:13	09/25/24 09:49	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		09/24/24 10:13	09/25/24 09:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	79		62 - 134			09/24/24 10:13	09/25/24 09:49	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		60	mg/Kg		09/24/24 14:14	09/24/24 19:10	20

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

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

Lab Sample ID: MB 885-12762/1-A

Matrix: Solid

Analysis Batch: 12902

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12762

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		09/23/24 10:14	09/24/24 19:21	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		35 - 166			09/23/24 10:14	09/24/24 19:21	1

Lab Sample ID: LCS 885-12762/2-A

Matrix: Solid

Analysis Batch: 12902

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12762

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	23.7		mg/Kg		95	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	208		35 - 166				

Lab Sample ID: 885-12300-1 MS

Matrix: Solid

Analysis Batch: 12902

Client Sample ID: BES24-01 @ 2'

Prep Type: Total/NA

Prep Batch: 12762

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	ND		23.7	24.0		mg/Kg		101	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	215		35 - 166						

Lab Sample ID: 885-12300-1 MSD

Matrix: Solid

Analysis Batch: 12902

Client Sample ID: BES24-01 @ 2'

Prep Type: Total/NA

Prep Batch: 12762

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		23.7	23.7		mg/Kg		100	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	212		35 - 166								

Lab Sample ID: MB 885-12766/1-A

Matrix: Solid

Analysis Batch: 13001

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12766

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		09/23/24 11:46	09/25/24 03:56	1

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QC Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

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

Lab Sample ID: MB 885-12766/1-A
Matrix: Solid
Analysis Batch: 13001

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12766

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		35 - 166	09/23/24 11:46	09/25/24 03:56	1

Lab Sample ID: LCS 885-12766/2-A
Matrix: Solid
Analysis Batch: 13001

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12766

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	24.4		mg/Kg		98	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	224		35 - 166				

Lab Sample ID: 885-12300-21 MS
Matrix: Solid
Analysis Batch: 13001

Client Sample ID: WES24-01 @ 0-2'
Prep Type: Total/NA
Prep Batch: 12766

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits		
	Result	Qualifier	Added	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	ND		23.9	24.7		mg/Kg		96	70 - 130			
Surrogate	MS	MS										
	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	222		35 - 166									

Lab Sample ID: 885-12300-21 MSD
Matrix: Solid
Analysis Batch: 13001

Client Sample ID: WES24-01 @ 0-2'
Prep Type: Total/NA
Prep Batch: 12766

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		24.1	24.3		mg/Kg		93	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	217		35 - 166								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-12762/1-A
Matrix: Solid
Analysis Batch: 12903

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12762

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/23/24 10:14	09/24/24 19:21	1
Ethylbenzene	ND		0.050	mg/Kg		09/23/24 10:14	09/24/24 19:21	1
Toluene	ND		0.050	mg/Kg		09/23/24 10:14	09/24/24 19:21	1
Xylenes, Total	ND		0.10	mg/Kg		09/23/24 10:14	09/24/24 19:21	1

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QC Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

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

Lab Sample ID: MB 885-12762/1-A

Matrix: Solid

Analysis Batch: 12903

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12762

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		48 - 145	09/23/24 10:14	09/24/24 19:21	1

Lab Sample ID: LCS 885-12762/3-A

Matrix: Solid

Analysis Batch: 12903

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12762

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene	1.00	0.978		mg/Kg		98		70 - 130
Ethylbenzene	1.00	0.999		mg/Kg		100		70 - 130
m-Xylene & p-Xylene	2.00	2.02		mg/Kg		101		70 - 130
o-Xylene	1.00	0.980		mg/Kg		98		70 - 130
Toluene	1.00	0.990		mg/Kg		99		70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		48 - 145

Lab Sample ID: 885-12300-2 MS

Matrix: Solid

Analysis Batch: 12903

Client Sample ID: BES24-02 @ 2'

Prep Type: Total/NA

Prep Batch: 12762

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene	ND		0.979	0.967		mg/Kg		99		70 - 130
Ethylbenzene	ND		0.979	1.02		mg/Kg		104		70 - 130
m-Xylene & p-Xylene	ND		1.96	2.03		mg/Kg		103		70 - 130
o-Xylene	ND		0.979	0.996		mg/Kg		102		70 - 130
Toluene	ND		0.979	1.00		mg/Kg		101		70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		48 - 145

Lab Sample ID: 885-12300-2 MSD

Matrix: Solid

Analysis Batch: 12903

Client Sample ID: BES24-02 @ 2'

Prep Type: Total/NA

Prep Batch: 12762

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD	
											RPD	Limit
Benzene	ND		0.991	0.993		mg/Kg		100			3	20
Ethylbenzene	ND		0.991	1.04		mg/Kg		104			2	20
m-Xylene & p-Xylene	ND		1.98	2.08		mg/Kg		104			3	20
o-Xylene	ND		0.991	1.01		mg/Kg		101			1	20
Toluene	ND		0.991	1.01		mg/Kg		100			1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		48 - 145

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QC Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

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

Lab Sample ID: MB 885-12766/1-A						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 13002						Prep Batch: 12766			
Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac	
	Result	Qualifier							
	Benzene	ND							
	Ethylbenzene	ND							
	Toluene	ND							
	Xylenes, Total	ND							
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
%Recovery	Qualifier								
4-Bromofluorobenzene (Surr)	101		48 - 145	09/23/24 11:46	09/25/24 03:56	1			

Lab Sample ID: LCS 885-12766/3-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 13037					Prep Batch: 12766				
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			1.50	1.55		mg/Kg		103	70 - 130
Ethylbenzene			1.50	1.55		mg/Kg		103	70 - 130
m-Xylene & p-Xylene			3.00	3.07		mg/Kg		102	70 - 130
o-Xylene			1.50	1.52		mg/Kg		102	70 - 130
Toluene			1.50	1.54		mg/Kg		103	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	105		48 - 145						

Lab Sample ID: 885-12300-22 MS					Client Sample ID: WES24-02 @ 0-2'				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 13002					Prep Batch: 12766				
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.981	1.15		mg/Kg		117	70 - 130
Ethylbenzene	ND		0.981	1.15		mg/Kg		117	70 - 130
m-Xylene & p-Xylene	ND		1.96	2.27		mg/Kg		116	70 - 130
o-Xylene	ND		0.981	1.14		mg/Kg		116	70 - 130
Toluene	ND		0.981	1.14		mg/Kg		116	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	106		48 - 145						

Lab Sample ID: 885-12300-22 MSD							Client Sample ID: WES24-02 @ 0-2'				
Matrix: Solid							Prep Type: Total/NA				
Analysis Batch: 13002							Prep Batch: 12766				
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		0.984	1.11		mg/Kg		113	70 - 130	3	20
Ethylbenzene	ND		0.984	1.12		mg/Kg		114	70 - 130	3	20
m-Xylene & p-Xylene	ND		1.97	2.21		mg/Kg		112	70 - 130	3	20
o-Xylene	ND		0.984	1.10		mg/Kg		112	70 - 130	4	20
Toluene	ND		0.984	1.12		mg/Kg		114	70 - 130	1	20

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QC Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

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

Lab Sample ID: 885-12300-22 MSD
Matrix: Solid
Analysis Batch: 13002

Client Sample ID: WES24-02 @ 0-2'
Prep Type: Total/NA
Prep Batch: 12766

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		48 - 145

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

Lab Sample ID: MB 885-12854/1-A
Matrix: Solid
Analysis Batch: 12869

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12854

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		09/24/24 09:41	09/24/24 12:19	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/24/24 09:41	09/24/24 12:19	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	92		62 - 134			09/24/24 09:41	09/24/24 12:19	1

Lab Sample ID: LCS 885-12854/2-A
Matrix: Solid
Analysis Batch: 12869

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12854

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	49.4		mg/Kg		99	60 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	113		62 - 134				

Lab Sample ID: 885-12300-20 MS
Matrix: Solid
Analysis Batch: 12869

Client Sample ID: BES24-20 @ 4'
Prep Type: Total/NA
Prep Batch: 12854

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		46.8	41.2		mg/Kg		88	44 - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
Di-n-octyl phthalate (Surr)	86		62 - 134						

Lab Sample ID: 885-12300-20 MSD
Matrix: Solid
Analysis Batch: 12869

Client Sample ID: BES24-20 @ 4'
Prep Type: Total/NA
Prep Batch: 12854

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		46.7	37.9		mg/Kg		81	44 - 136	8	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Di-n-octyl phthalate (Surr)	77		62 - 134								

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QC Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

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

Lab Sample ID: MB 885-12860/1-A						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 12967						Prep Batch: 12860			
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		09/24/24 10:13	09/25/24 07:50	1	
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/24/24 10:13	09/25/24 07:50	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	92		62 - 134			09/24/24 10:13	09/25/24 07:50	1	

Lab Sample ID: LCS 885-12860/2-A						Client Sample ID: Lab Control Sample			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 12967						Prep Batch: 12860			
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]			50.0	44.1		mg/Kg		88	60 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
Di-n-octyl phthalate (Surr)	96		62 - 134						

Lab Sample ID: 885-12300-29 MS						Client Sample ID: WES24-09 @ 0-4'			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 12967						Prep Batch: 12860			
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		42.7	42.7		mg/Kg		100	44 - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
Di-n-octyl phthalate (Surr)	92		62 - 134						

Lab Sample ID: 885-12300-29 MSD							Client Sample ID: WES24-09 @ 0-4'				
Matrix: Solid							Prep Type: Total/NA				
Analysis Batch: 12967							Prep Batch: 12860				
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		48.5	44.6		mg/Kg		92	44 - 136	4	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Di-n-octyl phthalate (Surr)	78		62 - 134								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-12897/1-A						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 12981						Prep Batch: 12897			
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	ND		3.0	mg/Kg		09/24/24 13:42	09/24/24 15:06	1	

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QC Sample Results

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-12897/2-A Matrix: Solid Analysis Batch: 12981										Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 12997				
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits					
Chloride			30.0	31.5		mg/Kg		105	90 - 110					
Lab Sample ID: 885-12300-1 MS Matrix: Solid Analysis Batch: 12981										Client Sample ID: BES24-01 @ 2' Prep Type: Total/NA Prep Batch: 12997				
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits					
Chloride	610		30.2	695	4	mg/Kg		290	50 - 150					
Lab Sample ID: 885-12300-1 MSD Matrix: Solid Analysis Batch: 12981										Client Sample ID: BES24-01 @ 2' Prep Type: Total/NA Prep Batch: 12997				
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit			
Chloride	610		30.2	689	4	mg/Kg		270	50 - 150	1	20			
Lab Sample ID: 885-12300-11 MS Matrix: Solid Analysis Batch: 12981										Client Sample ID: BES24-11 @ 2' Prep Type: Total/NA Prep Batch: 12997				
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits					
Chloride	690		30.1	780	4	mg/Kg		309	50 - 150					
Lab Sample ID: 885-12300-11 MSD Matrix: Solid Analysis Batch: 12981										Client Sample ID: BES24-11 @ 2' Prep Type: Total/NA Prep Batch: 12997				
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit			
Chloride	690		30.1	875	4	mg/Kg		624	50 - 150	11	20			
Lab Sample ID: MB 885-12900/1-A Matrix: Solid Analysis Batch: 12906										Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 12900				
Analyte	MB Result	MB Qualifier	RL			Unit	D	Prepared	Analyzed		Dil Fac			
Chloride	ND		3.0			mg/Kg		09/24/24 14:14	09/24/24 15:44		1			
Lab Sample ID: LCS 885-12900/2-A Matrix: Solid Analysis Batch: 12906										Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 12900				
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits					
Chloride			30.0	28.9		mg/Kg		96	90 - 110					
Lab Sample ID: 885-12300-21 MSD Matrix: Solid Analysis Batch: 12906										Client Sample ID: WES24-01 @ 0-2' Prep Type: Total/NA Prep Batch: 12900				
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit			
Chloride	66	F2 F1	30.1	100	F2	mg/Kg		114	50 - 150	24	20			

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QC Association Summary

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

GC VOA

Prep Batch: 12762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12300-1	BES24-01 @ 2'	Total/NA	Solid	5030C	
885-12300-2	BES24-02 @ 2'	Total/NA	Solid	5030C	
885-12300-3	BES24-03 @ 2'	Total/NA	Solid	5030C	
885-12300-4	BES24-04 @ 2'	Total/NA	Solid	5030C	
885-12300-5	BES24-05 @ 2'	Total/NA	Solid	5030C	
885-12300-6	BES24-06 @ 2'	Total/NA	Solid	5030C	
885-12300-7	BES24-07 @ 2'	Total/NA	Solid	5030C	
885-12300-8	BES24-08 @ 2'	Total/NA	Solid	5030C	
885-12300-9	BES24-09 @ 2'	Total/NA	Solid	5030C	
885-12300-10	BES24-10 @ 2'	Total/NA	Solid	5030C	
885-12300-11	BES24-11 @ 2'	Total/NA	Solid	5030C	
885-12300-12	BES24-12 @ 2'	Total/NA	Solid	5030C	
885-12300-13	BES24-13 @ 2'	Total/NA	Solid	5030C	
885-12300-14	BES24-14 @ 2'	Total/NA	Solid	5030C	
885-12300-15	BES24-15 @ 2'	Total/NA	Solid	5030C	
885-12300-16	BES24-16 @ 1'	Total/NA	Solid	5030C	
885-12300-17	BES24-17 @ 4'	Total/NA	Solid	5030C	
885-12300-18	BES24-18 @ 4'	Total/NA	Solid	5030C	
885-12300-19	BES24-19 @ 4'	Total/NA	Solid	5030C	
885-12300-20	BES24-20 @ 4'	Total/NA	Solid	5030C	
MB 885-12762/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-12762/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-12762/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-12300-1 MS	BES24-01 @ 2'	Total/NA	Solid	5030C	
885-12300-1 MSD	BES24-01 @ 2'	Total/NA	Solid	5030C	
885-12300-2 MS	BES24-02 @ 2'	Total/NA	Solid	5030C	
885-12300-2 MSD	BES24-02 @ 2'	Total/NA	Solid	5030C	

Prep Batch: 12766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12300-21	WES24-01 @ 0-2'	Total/NA	Solid	5030C	
885-12300-22	WES24-02 @ 0-2'	Total/NA	Solid	5030C	
885-12300-23	WES24-03 @ 0-2'	Total/NA	Solid	5030C	
885-12300-24	WES24-04 @ 0-2'	Total/NA	Solid	5030C	
885-12300-25	WES24-05 @ 0-1'	Total/NA	Solid	5030C	
885-12300-26	WES24-06 @ 0-4'	Total/NA	Solid	5030C	
885-12300-27	WES24-07 @ 0-4'	Total/NA	Solid	5030C	
885-12300-28	WES24-08 @ 0-4'	Total/NA	Solid	5030C	
885-12300-29	WES24-09 @ 0-4'	Total/NA	Solid	5030C	
MB 885-12766/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-12766/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-12766/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-12300-21 MS	WES24-01 @ 0-2'	Total/NA	Solid	5030C	
885-12300-21 MSD	WES24-01 @ 0-2'	Total/NA	Solid	5030C	
885-12300-22 MS	WES24-02 @ 0-2'	Total/NA	Solid	5030C	
885-12300-22 MSD	WES24-02 @ 0-2'	Total/NA	Solid	5030C	

Analysis Batch: 12902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12300-1	BES24-01 @ 2'	Total/NA	Solid	8015M/D	12762
885-12300-2	BES24-02 @ 2'	Total/NA	Solid	8015M/D	12762

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

GC VOA (Continued)

Analysis Batch: 12902 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12300-3	BES24-03 @ 2'	Total/NA	Solid	8015M/D	12762
885-12300-4	BES24-04 @ 2'	Total/NA	Solid	8015M/D	12762
885-12300-5	BES24-05 @ 2'	Total/NA	Solid	8015M/D	12762
885-12300-6	BES24-06 @ 2'	Total/NA	Solid	8015M/D	12762
885-12300-7	BES24-07 @ 2'	Total/NA	Solid	8015M/D	12762
885-12300-8	BES24-08 @ 2'	Total/NA	Solid	8015M/D	12762
885-12300-9	BES24-09 @ 2'	Total/NA	Solid	8015M/D	12762
885-12300-10	BES24-10 @ 2'	Total/NA	Solid	8015M/D	12762
885-12300-11	BES24-11 @ 2'	Total/NA	Solid	8015M/D	12762
885-12300-12	BES24-12 @ 2'	Total/NA	Solid	8015M/D	12762
885-12300-13	BES24-13 @ 2'	Total/NA	Solid	8015M/D	12762
885-12300-14	BES24-14 @ 2'	Total/NA	Solid	8015M/D	12762
885-12300-15	BES24-15 @ 2'	Total/NA	Solid	8015M/D	12762
885-12300-16	BES24-16 @ 1'	Total/NA	Solid	8015M/D	12762
885-12300-17	BES24-17 @ 4'	Total/NA	Solid	8015M/D	12762
885-12300-18	BES24-18 @ 4'	Total/NA	Solid	8015M/D	12762
885-12300-19	BES24-19 @ 4'	Total/NA	Solid	8015M/D	12762
885-12300-20	BES24-20 @ 4'	Total/NA	Solid	8015M/D	12762
MB 885-12762/1-A	Method Blank	Total/NA	Solid	8015M/D	12762
LCS 885-12762/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	12762
885-12300-1 MS	BES24-01 @ 2'	Total/NA	Solid	8015M/D	12762
885-12300-1 MSD	BES24-01 @ 2'	Total/NA	Solid	8015M/D	12762

Analysis Batch: 12903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12300-1	BES24-01 @ 2'	Total/NA	Solid	8021B	12762
885-12300-2	BES24-02 @ 2'	Total/NA	Solid	8021B	12762
885-12300-3	BES24-03 @ 2'	Total/NA	Solid	8021B	12762
885-12300-4	BES24-04 @ 2'	Total/NA	Solid	8021B	12762
885-12300-5	BES24-05 @ 2'	Total/NA	Solid	8021B	12762
885-12300-6	BES24-06 @ 2'	Total/NA	Solid	8021B	12762
885-12300-7	BES24-07 @ 2'	Total/NA	Solid	8021B	12762
885-12300-8	BES24-08 @ 2'	Total/NA	Solid	8021B	12762
885-12300-9	BES24-09 @ 2'	Total/NA	Solid	8021B	12762
885-12300-10	BES24-10 @ 2'	Total/NA	Solid	8021B	12762
885-12300-11	BES24-11 @ 2'	Total/NA	Solid	8021B	12762
885-12300-12	BES24-12 @ 2'	Total/NA	Solid	8021B	12762
885-12300-13	BES24-13 @ 2'	Total/NA	Solid	8021B	12762
885-12300-14	BES24-14 @ 2'	Total/NA	Solid	8021B	12762
885-12300-15	BES24-15 @ 2'	Total/NA	Solid	8021B	12762
885-12300-16	BES24-16 @ 1'	Total/NA	Solid	8021B	12762
885-12300-17	BES24-17 @ 4'	Total/NA	Solid	8021B	12762
885-12300-18	BES24-18 @ 4'	Total/NA	Solid	8021B	12762
885-12300-19	BES24-19 @ 4'	Total/NA	Solid	8021B	12762
885-12300-20	BES24-20 @ 4'	Total/NA	Solid	8021B	12762
MB 885-12762/1-A	Method Blank	Total/NA	Solid	8021B	12762
LCS 885-12762/3-A	Lab Control Sample	Total/NA	Solid	8021B	12762
885-12300-2 MS	BES24-02 @ 2'	Total/NA	Solid	8021B	12762
885-12300-2 MSD	BES24-02 @ 2'	Total/NA	Solid	8021B	12762

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

GC VOA

Analysis Batch: 13001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12300-21	WES24-01 @ 0-2'	Total/NA	Solid	8015M/D	12766
885-12300-22	WES24-02 @ 0-2'	Total/NA	Solid	8015M/D	12766
885-12300-23	WES24-03 @ 0-2'	Total/NA	Solid	8015M/D	12766
885-12300-24	WES24-04 @ 0-2'	Total/NA	Solid	8015M/D	12766
885-12300-25	WES24-05 @ 0-1'	Total/NA	Solid	8015M/D	12766
885-12300-26	WES24-06 @ 0-4'	Total/NA	Solid	8015M/D	12766
885-12300-27	WES24-07 @ 0-4'	Total/NA	Solid	8015M/D	12766
885-12300-28	WES24-08 @ 0-4'	Total/NA	Solid	8015M/D	12766
885-12300-29	WES24-09 @ 0-4'	Total/NA	Solid	8015M/D	12766
MB 885-12766/1-A	Method Blank	Total/NA	Solid	8015M/D	12766
LCS 885-12766/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	12766
885-12300-21 MS	WES24-01 @ 0-2'	Total/NA	Solid	8015M/D	12766
885-12300-21 MSD	WES24-01 @ 0-2'	Total/NA	Solid	8015M/D	12766

Analysis Batch: 13002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12300-21	WES24-01 @ 0-2'	Total/NA	Solid	8021B	12766
885-12300-22	WES24-02 @ 0-2'	Total/NA	Solid	8021B	12766
885-12300-23	WES24-03 @ 0-2'	Total/NA	Solid	8021B	12766
885-12300-24	WES24-04 @ 0-2'	Total/NA	Solid	8021B	12766
885-12300-25	WES24-05 @ 0-1'	Total/NA	Solid	8021B	12766
885-12300-26	WES24-06 @ 0-4'	Total/NA	Solid	8021B	12766
885-12300-27	WES24-07 @ 0-4'	Total/NA	Solid	8021B	12766
885-12300-28	WES24-08 @ 0-4'	Total/NA	Solid	8021B	12766
885-12300-29	WES24-09 @ 0-4'	Total/NA	Solid	8021B	12766
MB 885-12766/1-A	Method Blank	Total/NA	Solid	8021B	12766
885-12300-22 MS	WES24-02 @ 0-2'	Total/NA	Solid	8021B	12766
885-12300-22 MSD	WES24-02 @ 0-2'	Total/NA	Solid	8021B	12766

Analysis Batch: 13037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-12766/3-A	Lab Control Sample	Total/NA	Solid	8021B	12766

GC Semi VOA

Prep Batch: 12854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12300-1	BES24-01 @ 2'	Total/NA	Solid	SHAKE	
885-12300-2	BES24-02 @ 2'	Total/NA	Solid	SHAKE	
885-12300-3	BES24-03 @ 2'	Total/NA	Solid	SHAKE	
885-12300-4	BES24-04 @ 2'	Total/NA	Solid	SHAKE	
885-12300-5	BES24-05 @ 2'	Total/NA	Solid	SHAKE	
885-12300-6	BES24-06 @ 2'	Total/NA	Solid	SHAKE	
885-12300-7	BES24-07 @ 2'	Total/NA	Solid	SHAKE	
885-12300-8	BES24-08 @ 2'	Total/NA	Solid	SHAKE	
885-12300-9	BES24-09 @ 2'	Total/NA	Solid	SHAKE	
885-12300-10	BES24-10 @ 2'	Total/NA	Solid	SHAKE	
885-12300-11	BES24-11 @ 2'	Total/NA	Solid	SHAKE	
885-12300-12	BES24-12 @ 2'	Total/NA	Solid	SHAKE	
885-12300-13	BES24-13 @ 2'	Total/NA	Solid	SHAKE	
885-12300-14	BES24-14 @ 2'	Total/NA	Solid	SHAKE	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

GC Semi VOA (Continued)

Prep Batch: 12854 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12300-15	BES24-15 @ 2'	Total/NA	Solid	SHAKE	
885-12300-16	BES24-16 @ 1'	Total/NA	Solid	SHAKE	
885-12300-17	BES24-17 @ 4'	Total/NA	Solid	SHAKE	
885-12300-18	BES24-18 @ 4'	Total/NA	Solid	SHAKE	
885-12300-19	BES24-19 @ 4'	Total/NA	Solid	SHAKE	
885-12300-20	BES24-20 @ 4'	Total/NA	Solid	SHAKE	
MB 885-12854/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-12854/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-12300-20 MS	BES24-20 @ 4'	Total/NA	Solid	SHAKE	
885-12300-20 MSD	BES24-20 @ 4'	Total/NA	Solid	SHAKE	

Prep Batch: 12860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12300-21	WES24-01 @ 0-2'	Total/NA	Solid	SHAKE	
885-12300-22	WES24-02 @ 0-2'	Total/NA	Solid	SHAKE	
885-12300-23	WES24-03 @ 0-2'	Total/NA	Solid	SHAKE	
885-12300-24	WES24-04 @ 0-2'	Total/NA	Solid	SHAKE	
885-12300-25	WES24-05 @ 0-1'	Total/NA	Solid	SHAKE	
885-12300-26	WES24-06 @ 0-4'	Total/NA	Solid	SHAKE	
885-12300-27	WES24-07 @ 0-4'	Total/NA	Solid	SHAKE	
885-12300-28	WES24-08 @ 0-4'	Total/NA	Solid	SHAKE	
885-12300-29	WES24-09 @ 0-4'	Total/NA	Solid	SHAKE	
MB 885-12860/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-12860/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-12300-29 MS	WES24-09 @ 0-4'	Total/NA	Solid	SHAKE	
885-12300-29 MSD	WES24-09 @ 0-4'	Total/NA	Solid	SHAKE	

Analysis Batch: 12869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12300-1	BES24-01 @ 2'	Total/NA	Solid	8015M/D	12854
885-12300-2	BES24-02 @ 2'	Total/NA	Solid	8015M/D	12854
885-12300-3	BES24-03 @ 2'	Total/NA	Solid	8015M/D	12854
885-12300-4	BES24-04 @ 2'	Total/NA	Solid	8015M/D	12854
885-12300-5	BES24-05 @ 2'	Total/NA	Solid	8015M/D	12854
885-12300-6	BES24-06 @ 2'	Total/NA	Solid	8015M/D	12854
885-12300-7	BES24-07 @ 2'	Total/NA	Solid	8015M/D	12854
885-12300-8	BES24-08 @ 2'	Total/NA	Solid	8015M/D	12854
885-12300-9	BES24-09 @ 2'	Total/NA	Solid	8015M/D	12854
885-12300-10	BES24-10 @ 2'	Total/NA	Solid	8015M/D	12854
885-12300-11	BES24-11 @ 2'	Total/NA	Solid	8015M/D	12854
885-12300-12	BES24-12 @ 2'	Total/NA	Solid	8015M/D	12854
885-12300-13	BES24-13 @ 2'	Total/NA	Solid	8015M/D	12854
885-12300-14	BES24-14 @ 2'	Total/NA	Solid	8015M/D	12854
885-12300-15	BES24-15 @ 2'	Total/NA	Solid	8015M/D	12854
885-12300-16	BES24-16 @ 1'	Total/NA	Solid	8015M/D	12854
885-12300-17	BES24-17 @ 4'	Total/NA	Solid	8015M/D	12854
885-12300-18	BES24-18 @ 4'	Total/NA	Solid	8015M/D	12854
885-12300-19	BES24-19 @ 4'	Total/NA	Solid	8015M/D	12854
885-12300-20	BES24-20 @ 4'	Total/NA	Solid	8015M/D	12854
MB 885-12854/1-A	Method Blank	Total/NA	Solid	8015M/D	12854
LCS 885-12854/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	12854

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

GC Semi VOA (Continued)

Analysis Batch: 12869 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12300-20 MS	BES24-20 @ 4'	Total/NA	Solid	8015M/D	12854
885-12300-20 MSD	BES24-20 @ 4'	Total/NA	Solid	8015M/D	12854

Analysis Batch: 12967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12300-21	WES24-01 @ 0-2'	Total/NA	Solid	8015M/D	12860
885-12300-22	WES24-02 @ 0-2'	Total/NA	Solid	8015M/D	12860
885-12300-23	WES24-03 @ 0-2'	Total/NA	Solid	8015M/D	12860
885-12300-24	WES24-04 @ 0-2'	Total/NA	Solid	8015M/D	12860
885-12300-25	WES24-05 @ 0-1'	Total/NA	Solid	8015M/D	12860
885-12300-26	WES24-06 @ 0-4'	Total/NA	Solid	8015M/D	12860
885-12300-27	WES24-07 @ 0-4'	Total/NA	Solid	8015M/D	12860
885-12300-28	WES24-08 @ 0-4'	Total/NA	Solid	8015M/D	12860
885-12300-29	WES24-09 @ 0-4'	Total/NA	Solid	8015M/D	12860
MB 885-12860/1-A	Method Blank	Total/NA	Solid	8015M/D	12860
LCS 885-12860/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	12860
885-12300-29 MS	WES24-09 @ 0-4'	Total/NA	Solid	8015M/D	12860
885-12300-29 MSD	WES24-09 @ 0-4'	Total/NA	Solid	8015M/D	12860

HPLC/IC

Prep Batch: 12897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12300-1	BES24-01 @ 2'	Total/NA	Solid	300_Prep	
885-12300-2	BES24-02 @ 2'	Total/NA	Solid	300_Prep	
885-12300-3	BES24-03 @ 2'	Total/NA	Solid	300_Prep	
885-12300-4	BES24-04 @ 2'	Total/NA	Solid	300_Prep	
885-12300-5	BES24-05 @ 2'	Total/NA	Solid	300_Prep	
885-12300-6	BES24-06 @ 2'	Total/NA	Solid	300_Prep	
885-12300-7	BES24-07 @ 2'	Total/NA	Solid	300_Prep	
885-12300-8	BES24-08 @ 2'	Total/NA	Solid	300_Prep	
885-12300-9	BES24-09 @ 2'	Total/NA	Solid	300_Prep	
885-12300-10	BES24-10 @ 2'	Total/NA	Solid	300_Prep	
885-12300-11	BES24-11 @ 2'	Total/NA	Solid	300_Prep	
885-12300-12	BES24-12 @ 2'	Total/NA	Solid	300_Prep	
885-12300-13	BES24-13 @ 2'	Total/NA	Solid	300_Prep	
885-12300-14	BES24-14 @ 2'	Total/NA	Solid	300_Prep	
885-12300-15	BES24-15 @ 2'	Total/NA	Solid	300_Prep	
885-12300-16	BES24-16 @ 1'	Total/NA	Solid	300_Prep	
885-12300-17	BES24-17 @ 4'	Total/NA	Solid	300_Prep	
885-12300-18	BES24-18 @ 4'	Total/NA	Solid	300_Prep	
885-12300-19	BES24-19 @ 4'	Total/NA	Solid	300_Prep	
885-12300-20	BES24-20 @ 4'	Total/NA	Solid	300_Prep	
MB 885-12897/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-12897/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-12300-1 MS	BES24-01 @ 2'	Total/NA	Solid	300_Prep	
885-12300-1 MSD	BES24-01 @ 2'	Total/NA	Solid	300_Prep	
885-12300-11 MS	BES24-11 @ 2'	Total/NA	Solid	300_Prep	
885-12300-11 MSD	BES24-11 @ 2'	Total/NA	Solid	300_Prep	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

HPLC/IC

Prep Batch: 12900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12300-21	WES24-01 @ 0-2'	Total/NA	Solid	300_Prep	
885-12300-22	WES24-02 @ 0-2'	Total/NA	Solid	300_Prep	
885-12300-23	WES24-03 @ 0-2'	Total/NA	Solid	300_Prep	
885-12300-24	WES24-04 @ 0-2'	Total/NA	Solid	300_Prep	
885-12300-25	WES24-05 @ 0-1'	Total/NA	Solid	300_Prep	
885-12300-26	WES24-06 @ 0-4'	Total/NA	Solid	300_Prep	
885-12300-27	WES24-07 @ 0-4'	Total/NA	Solid	300_Prep	
885-12300-28	WES24-08 @ 0-4'	Total/NA	Solid	300_Prep	
885-12300-29	WES24-09 @ 0-4'	Total/NA	Solid	300_Prep	
MB 885-12900/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-12900/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-12300-21 MSD	WES24-01 @ 0-2'	Total/NA	Solid	300_Prep	

Analysis Batch: 12906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12300-21	WES24-01 @ 0-2'	Total/NA	Solid	300.0	12900
885-12300-22	WES24-02 @ 0-2'	Total/NA	Solid	300.0	12900
885-12300-23	WES24-03 @ 0-2'	Total/NA	Solid	300.0	12900
885-12300-24	WES24-04 @ 0-2'	Total/NA	Solid	300.0	12900
885-12300-25	WES24-05 @ 0-1'	Total/NA	Solid	300.0	12900
885-12300-26	WES24-06 @ 0-4'	Total/NA	Solid	300.0	12900
885-12300-27	WES24-07 @ 0-4'	Total/NA	Solid	300.0	12900
885-12300-28	WES24-08 @ 0-4'	Total/NA	Solid	300.0	12900
885-12300-29	WES24-09 @ 0-4'	Total/NA	Solid	300.0	12900
MB 885-12900/1-A	Method Blank	Total/NA	Solid	300.0	12900
LCS 885-12900/2-A	Lab Control Sample	Total/NA	Solid	300.0	12900
885-12300-21 MSD	WES24-01 @ 0-2'	Total/NA	Solid	300.0	12900

Analysis Batch: 12981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12300-1	BES24-01 @ 2'	Total/NA	Solid	300.0	12897
885-12300-2	BES24-02 @ 2'	Total/NA	Solid	300.0	12897
885-12300-3	BES24-03 @ 2'	Total/NA	Solid	300.0	12897
885-12300-4	BES24-04 @ 2'	Total/NA	Solid	300.0	12897
885-12300-5	BES24-05 @ 2'	Total/NA	Solid	300.0	12897
885-12300-6	BES24-06 @ 2'	Total/NA	Solid	300.0	12897
885-12300-7	BES24-07 @ 2'	Total/NA	Solid	300.0	12897
885-12300-9	BES24-09 @ 2'	Total/NA	Solid	300.0	12897
885-12300-10	BES24-10 @ 2'	Total/NA	Solid	300.0	12897
885-12300-11	BES24-11 @ 2'	Total/NA	Solid	300.0	12897
885-12300-12	BES24-12 @ 2'	Total/NA	Solid	300.0	12897
885-12300-13	BES24-13 @ 2'	Total/NA	Solid	300.0	12897
885-12300-14	BES24-14 @ 2'	Total/NA	Solid	300.0	12897
885-12300-15	BES24-15 @ 2'	Total/NA	Solid	300.0	12897
885-12300-16	BES24-16 @ 1'	Total/NA	Solid	300.0	12897
885-12300-17	BES24-17 @ 4'	Total/NA	Solid	300.0	12897
885-12300-18	BES24-18 @ 4'	Total/NA	Solid	300.0	12897
885-12300-19	BES24-19 @ 4'	Total/NA	Solid	300.0	12897
885-12300-20	BES24-20 @ 4'	Total/NA	Solid	300.0	12897
MB 885-12897/1-A	Method Blank	Total/NA	Solid	300.0	12897
LCS 885-12897/2-A	Lab Control Sample	Total/NA	Solid	300.0	12897

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QC Association Summary

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

HPLC/IC (Continued)

Analysis Batch: 12981 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12300-1 MS	BES24-01 @ 2'	Total/NA	Solid	300.0	12897
885-12300-1 MSD	BES24-01 @ 2'	Total/NA	Solid	300.0	12897
885-12300-11 MS	BES24-11 @ 2'	Total/NA	Solid	300.0	12897
885-12300-11 MSD	BES24-11 @ 2'	Total/NA	Solid	300.0	12897

Analysis Batch: 13000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12300-8	BES24-08 @ 2'	Total/NA	Solid	300.0	12897

Lab Chronicle

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: BES24-01 @ 2'
Date Collected: 09/16/24 10:15
Date Received: 09/21/24 08:05

Lab Sample ID: 885-12300-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8015M/D		1	12902	JP	EET ALB	09/24/24 19:44
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8021B		1	12903	JP	EET ALB	09/24/24 19:44
Total/NA	Prep	SHAKE			12854	KR	EET ALB	09/24/24 09:41
Total/NA	Analysis	8015M/D		1	12869	KR	EET ALB	09/24/24 12:42
Total/NA	Prep	300_Prep			12897	EH	EET ALB	09/24/24 13:42
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/24/24 15:32

Client Sample ID: BES24-02 @ 2'
Date Collected: 09/16/24 10:18
Date Received: 09/21/24 08:05

Lab Sample ID: 885-12300-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8015M/D		1	12902	JP	EET ALB	09/24/24 20:55
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8021B		1	12903	JP	EET ALB	09/24/24 20:55
Total/NA	Prep	SHAKE			12854	KR	EET ALB	09/24/24 09:41
Total/NA	Analysis	8015M/D		1	12869	KR	EET ALB	09/24/24 12:54
Total/NA	Prep	300_Prep			12897	EH	EET ALB	09/24/24 13:42
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/24/24 16:11

Client Sample ID: BES24-03 @ 2'
Date Collected: 09/16/24 10:21
Date Received: 09/21/24 08:05

Lab Sample ID: 885-12300-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8015M/D		1	12902	JP	EET ALB	09/24/24 22:05
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8021B		1	12903	JP	EET ALB	09/24/24 22:05
Total/NA	Prep	SHAKE			12854	KR	EET ALB	09/24/24 09:41
Total/NA	Analysis	8015M/D		1	12869	KR	EET ALB	09/24/24 13:06
Total/NA	Prep	300_Prep			12897	EH	EET ALB	09/24/24 13:42
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/24/24 16:23

Client Sample ID: BES24-04 @ 2'
Date Collected: 09/16/24 10:27
Date Received: 09/21/24 08:05

Lab Sample ID: 885-12300-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8015M/D		1	12902	JP	EET ALB	09/24/24 22:53

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: BES24-04 @ 2'
Date Collected: 09/16/24 10:27
Date Received: 09/21/24 08:05

Lab Sample ID: 885-12300-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8021B		1	12903	JP	EET ALB	09/24/24 22:53
Total/NA	Prep	SHAKE			12854	KR	EET ALB	09/24/24 09:41
Total/NA	Analysis	8015M/D		1	12869	KR	EET ALB	09/24/24 13:18
Total/NA	Prep	300_Prep			12897	EH	EET ALB	09/24/24 13:42
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/24/24 16:36

Client Sample ID: BES24-05 @ 2'
Date Collected: 09/16/24 10:31
Date Received: 09/21/24 08:05

Lab Sample ID: 885-12300-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8015M/D		1	12902	JP	EET ALB	09/24/24 23:16
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8021B		1	12903	JP	EET ALB	09/24/24 23:16
Total/NA	Prep	SHAKE			12854	KR	EET ALB	09/24/24 09:41
Total/NA	Analysis	8015M/D		1	12869	KR	EET ALB	09/24/24 13:30
Total/NA	Prep	300_Prep			12897	EH	EET ALB	09/24/24 13:42
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/24/24 16:49

Client Sample ID: BES24-06 @ 2'
Date Collected: 09/16/24 10:35
Date Received: 09/21/24 08:05

Lab Sample ID: 885-12300-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8015M/D		1	12902	JP	EET ALB	09/25/24 00:04
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8021B		1	12903	JP	EET ALB	09/25/24 00:04
Total/NA	Prep	SHAKE			12854	KR	EET ALB	09/24/24 09:41
Total/NA	Analysis	8015M/D		1	12869	KR	EET ALB	09/24/24 13:42
Total/NA	Prep	300_Prep			12897	EH	EET ALB	09/24/24 13:42
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/24/24 17:02

Client Sample ID: BES24-07 @ 2'
Date Collected: 09/16/24 10:39
Date Received: 09/21/24 08:05

Lab Sample ID: 885-12300-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8015M/D		1	12902	JP	EET ALB	09/25/24 00:27
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8021B		1	12903	JP	EET ALB	09/25/24 00:27

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Lab Chronicle

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: BES24-07 @ 2'
Date Collected: 09/16/24 10:39
Date Received: 09/21/24 08:05

Lab Sample ID: 885-12300-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			12854	KR	EET ALB	09/24/24 09:41
Total/NA	Analysis	8015M/D		1	12869	KR	EET ALB	09/24/24 13:54
Total/NA	Prep	300_Prep			12897	EH	EET ALB	09/24/24 13:42
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/24/24 17:41

Client Sample ID: BES24-08 @ 2'
Date Collected: 09/16/24 10:43
Date Received: 09/21/24 08:05

Lab Sample ID: 885-12300-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8015M/D		1	12902	JP	EET ALB	09/25/24 00:51
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8021B		1	12903	JP	EET ALB	09/25/24 00:51
Total/NA	Prep	SHAKE			12854	KR	EET ALB	09/24/24 09:41
Total/NA	Analysis	8015M/D		1	12869	KR	EET ALB	09/24/24 14:06
Total/NA	Prep	300_Prep			12897	EH	EET ALB	09/24/24 13:42
Total/NA	Analysis	300.0		50	13000	EH	EET ALB	09/25/24 09:26

Client Sample ID: BES24-09 @ 2'
Date Collected: 09/16/24 10:46
Date Received: 09/21/24 08:05

Lab Sample ID: 885-12300-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8015M/D		1	12902	JP	EET ALB	09/25/24 01:15
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8021B		1	12903	JP	EET ALB	09/25/24 01:15
Total/NA	Prep	SHAKE			12854	KR	EET ALB	09/24/24 09:41
Total/NA	Analysis	8015M/D		1	12869	KR	EET ALB	09/24/24 14:18
Total/NA	Prep	300_Prep			12897	EH	EET ALB	09/24/24 13:42
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/24/24 18:06

Client Sample ID: BES24-10 @ 2'
Date Collected: 09/16/24 10:48
Date Received: 09/21/24 08:05

Lab Sample ID: 885-12300-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8015M/D		1	12902	JP	EET ALB	09/25/24 01:38
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8021B		1	12903	JP	EET ALB	09/25/24 01:38
Total/NA	Prep	SHAKE			12854	KR	EET ALB	09/24/24 09:41
Total/NA	Analysis	8015M/D		1	12869	KR	EET ALB	09/24/24 14:42

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Lab Chronicle

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: BES24-10 @ 2'
Date Collected: 09/16/24 10:48
Date Received: 09/21/24 08:05

Lab Sample ID: 885-12300-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			12897	EH	EET ALB	09/24/24 13:42
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/24/24 18:19

Client Sample ID: BES24-11 @ 2'
Date Collected: 09/16/24 10:52
Date Received: 09/21/24 08:05

Lab Sample ID: 885-12300-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8015M/D		1	12902	JP	EET ALB	09/25/24 02:02
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8021B		1	12903	JP	EET ALB	09/25/24 02:02
Total/NA	Prep	SHAKE			12854	KR	EET ALB	09/24/24 09:41
Total/NA	Analysis	8015M/D		1	12869	KR	EET ALB	09/24/24 14:54
Total/NA	Prep	300_Prep			12897	EH	EET ALB	09/24/24 13:42
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/24/24 18:31

Client Sample ID: BES24-12 @ 2'
Date Collected: 09/16/24 10:57
Date Received: 09/21/24 08:05

Lab Sample ID: 885-12300-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8015M/D		1	12902	JP	EET ALB	09/25/24 02:26
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8021B		1	12903	JP	EET ALB	09/25/24 02:26
Total/NA	Prep	SHAKE			12854	KR	EET ALB	09/24/24 09:41
Total/NA	Analysis	8015M/D		1	12869	KR	EET ALB	09/24/24 15:06
Total/NA	Prep	300_Prep			12897	EH	EET ALB	09/24/24 13:42
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/24/24 19:10

Client Sample ID: BES24-13 @ 2'
Date Collected: 09/16/24 11:09
Date Received: 09/21/24 08:05

Lab Sample ID: 885-12300-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8015M/D		1	12902	JP	EET ALB	09/25/24 02:50
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8021B		1	12903	JP	EET ALB	09/25/24 02:50
Total/NA	Prep	SHAKE			12854	KR	EET ALB	09/24/24 09:41
Total/NA	Analysis	8015M/D		1	12869	KR	EET ALB	09/24/24 15:18
Total/NA	Prep	300_Prep			12897	EH	EET ALB	09/24/24 13:42
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/24/24 19:23

Lab Chronicle

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: BES24-14 @ 2'

Lab Sample ID: 885-12300-14

Date Collected: 09/16/24 11:01

Matrix: Solid

Date Received: 09/21/24 08:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8015M/D		1	12902	JP	EET ALB	09/25/24 03:13
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8021B		1	12903	JP	EET ALB	09/25/24 03:13
Total/NA	Prep	SHAKE			12854	KR	EET ALB	09/24/24 09:41
Total/NA	Analysis	8015M/D		1	12869	KR	EET ALB	09/24/24 15:30
Total/NA	Prep	300_Prep			12897	EH	EET ALB	09/24/24 13:42
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/24/24 19:36

Client Sample ID: BES24-15 @ 2'

Lab Sample ID: 885-12300-15

Date Collected: 09/16/24 11:05

Matrix: Solid

Date Received: 09/21/24 08:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8015M/D		1	12902	JP	EET ALB	09/25/24 03:37
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8021B		1	12903	JP	EET ALB	09/25/24 03:37
Total/NA	Prep	SHAKE			12854	KR	EET ALB	09/24/24 09:41
Total/NA	Analysis	8015M/D		2	12869	KR	EET ALB	09/24/24 11:55
Total/NA	Prep	300_Prep			12897	EH	EET ALB	09/24/24 13:42
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/24/24 20:14

Client Sample ID: BES24-16 @ 1'

Lab Sample ID: 885-12300-16

Date Collected: 09/16/24 11:17

Matrix: Solid

Date Received: 09/21/24 08:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8015M/D		1	12902	JP	EET ALB	09/25/24 04:24
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8021B		1	12903	JP	EET ALB	09/25/24 04:24
Total/NA	Prep	SHAKE			12854	KR	EET ALB	09/24/24 09:41
Total/NA	Analysis	8015M/D		1	12869	KR	EET ALB	09/24/24 15:42
Total/NA	Prep	300_Prep			12897	EH	EET ALB	09/24/24 13:42
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/24/24 20:27

Client Sample ID: BES24-17 @ 4'

Lab Sample ID: 885-12300-17

Date Collected: 09/16/24 11:42

Matrix: Solid

Date Received: 09/21/24 08:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8015M/D		1	12902	JP	EET ALB	09/25/24 04:48

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Lab Chronicle

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: BES24-17 @ 4'
Date Collected: 09/16/24 11:42
Date Received: 09/21/24 08:05

Lab Sample ID: 885-12300-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8021B		1	12903	JP	EET ALB	09/25/24 04:48
Total/NA	Prep	SHAKE			12854	KR	EET ALB	09/24/24 09:41
Total/NA	Analysis	8015M/D		1	12869	KR	EET ALB	09/24/24 15:54
Total/NA	Prep	300_Prep			12897	EH	EET ALB	09/24/24 13:42
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/24/24 20:40

Client Sample ID: BES24-18 @ 4'
Date Collected: 09/16/24 11:40
Date Received: 09/21/24 08:05

Lab Sample ID: 885-12300-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8015M/D		1	12902	JP	EET ALB	09/25/24 05:11
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8021B		1	12903	JP	EET ALB	09/25/24 05:11
Total/NA	Prep	SHAKE			12854	KR	EET ALB	09/24/24 09:41
Total/NA	Analysis	8015M/D		1	12869	KR	EET ALB	09/24/24 16:06
Total/NA	Prep	300_Prep			12897	EH	EET ALB	09/24/24 13:42
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/24/24 20:53

Client Sample ID: BES24-19 @ 4'
Date Collected: 09/16/24 11:26
Date Received: 09/21/24 08:05

Lab Sample ID: 885-12300-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8015M/D		1	12902	JP	EET ALB	09/25/24 05:35
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8021B		1	12903	JP	EET ALB	09/25/24 05:35
Total/NA	Prep	SHAKE			12854	KR	EET ALB	09/24/24 09:41
Total/NA	Analysis	8015M/D		1	12869	KR	EET ALB	09/24/24 16:18
Total/NA	Prep	300_Prep			12897	EH	EET ALB	09/24/24 13:42
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/24/24 21:06

Client Sample ID: BES24-20 @ 4'
Date Collected: 09/16/24 11:35
Date Received: 09/21/24 08:05

Lab Sample ID: 885-12300-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8015M/D		1	12902	JP	EET ALB	09/25/24 05:59
Total/NA	Prep	5030C			12762	JP	EET ALB	09/23/24 10:14
Total/NA	Analysis	8021B		1	12903	JP	EET ALB	09/25/24 05:59

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: BES24-20 @ 4'
Date Collected: 09/16/24 11:35
Date Received: 09/21/24 08:05

Lab Sample ID: 885-12300-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			12854	KR	EET ALB	09/24/24 09:41
Total/NA	Analysis	8015M/D		1	12869	KR	EET ALB	09/24/24 16:55
Total/NA	Prep	300_Prep			12897	EH	EET ALB	09/24/24 13:42
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/24/24 21:18

Client Sample ID: WES24-01 @ 0-2'
Date Collected: 09/16/24 11:19
Date Received: 09/21/24 08:05

Lab Sample ID: 885-12300-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8015M/D		1	13001	AT	EET ALB	09/25/24 04:17
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8021B		1	13002	AT	EET ALB	09/25/24 04:17
Total/NA	Prep	SHAKE			12860	KR	EET ALB	09/24/24 10:13
Total/NA	Analysis	8015M/D		1	12967	KR	EET ALB	09/25/24 08:26
Total/NA	Prep	300_Prep			12900	EH	EET ALB	09/24/24 14:14
Total/NA	Analysis	300.0		20	12906	EH	EET ALB	09/24/24 16:36

Client Sample ID: WES24-02 @ 0-2'
Date Collected: 09/16/24 11:15
Date Received: 09/21/24 08:05

Lab Sample ID: 885-12300-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8015M/D		1	13001	AT	EET ALB	09/25/24 05:23
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8021B		1	13002	AT	EET ALB	09/25/24 05:23
Total/NA	Prep	SHAKE			12860	KR	EET ALB	09/24/24 10:13
Total/NA	Analysis	8015M/D		1	12967	KR	EET ALB	09/25/24 08:14
Total/NA	Prep	300_Prep			12900	EH	EET ALB	09/24/24 14:14
Total/NA	Analysis	300.0		20	12906	EH	EET ALB	09/24/24 17:14

Client Sample ID: WES24-03 @ 0-2'
Date Collected: 09/16/24 11:10
Date Received: 09/21/24 08:05

Lab Sample ID: 885-12300-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8015M/D		1	13001	AT	EET ALB	09/25/24 06:28
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8021B		1	13002	AT	EET ALB	09/25/24 06:28
Total/NA	Prep	SHAKE			12860	KR	EET ALB	09/24/24 10:13
Total/NA	Analysis	8015M/D		1	12967	KR	EET ALB	09/25/24 08:38

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: WES24-03 @ 0-2'

Lab Sample ID: 885-12300-23

Date Collected: 09/16/24 11:10

Matrix: Solid

Date Received: 09/21/24 08:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			12900	EH	EET ALB	09/24/24 14:14
Total/NA	Analysis	300.0		20	12906	EH	EET ALB	09/24/24 17:27

Client Sample ID: WES24-04 @ 0-2'

Lab Sample ID: 885-12300-24

Date Collected: 09/16/24 11:14

Matrix: Solid

Date Received: 09/21/24 08:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8015M/D		1	13001	AT	EET ALB	09/25/24 06:50
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8021B		1	13002	AT	EET ALB	09/25/24 06:50
Total/NA	Prep	SHAKE			12860	KR	EET ALB	09/24/24 10:13
Total/NA	Analysis	8015M/D		1	12967	KR	EET ALB	09/25/24 08:50
Total/NA	Prep	300_Prep			12900	EH	EET ALB	09/24/24 14:14
Total/NA	Analysis	300.0		20	12906	EH	EET ALB	09/24/24 17:40

Client Sample ID: WES24-05 @ 0-1'

Lab Sample ID: 885-12300-25

Date Collected: 09/16/24 11:21

Matrix: Solid

Date Received: 09/21/24 08:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8015M/D		1	13001	AT	EET ALB	09/25/24 07:12
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8021B		1	13002	AT	EET ALB	09/25/24 07:12
Total/NA	Prep	SHAKE			12860	KR	EET ALB	09/24/24 10:13
Total/NA	Analysis	8015M/D		1	12967	KR	EET ALB	09/25/24 09:02
Total/NA	Prep	300_Prep			12900	EH	EET ALB	09/24/24 14:14
Total/NA	Analysis	300.0		20	12906	EH	EET ALB	09/24/24 17:53

Client Sample ID: WES24-06 @ 0-4'

Lab Sample ID: 885-12300-26

Date Collected: 09/16/24 11:37

Matrix: Solid

Date Received: 09/21/24 08:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8015M/D		1	13001	AT	EET ALB	09/25/24 07:34
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8021B		1	13002	AT	EET ALB	09/25/24 07:34
Total/NA	Prep	SHAKE			12860	KR	EET ALB	09/24/24 10:13
Total/NA	Analysis	8015M/D		1	12967	KR	EET ALB	09/25/24 09:14
Total/NA	Prep	300_Prep			12900	EH	EET ALB	09/24/24 14:14
Total/NA	Analysis	300.0		20	12906	EH	EET ALB	09/24/24 18:06

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

Client Sample ID: WES24-07 @ 0-4'
Date Collected: 09/16/24 11:44
Date Received: 09/21/24 08:05

Lab Sample ID: 885-12300-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8015M/D		1	13001	AT	EET ALB	09/25/24 07:55
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8021B		1	13002	AT	EET ALB	09/25/24 07:55
Total/NA	Prep	SHAKE			12860	KR	EET ALB	09/24/24 10:13
Total/NA	Analysis	8015M/D		1	12967	KR	EET ALB	09/25/24 09:25
Total/NA	Prep	300_Prep			12900	EH	EET ALB	09/24/24 14:14
Total/NA	Analysis	300.0		20	12906	EH	EET ALB	09/24/24 18:19

Client Sample ID: WES24-08 @ 0-4'
Date Collected: 09/16/24 11:29
Date Received: 09/21/24 08:05

Lab Sample ID: 885-12300-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8015M/D		1	13001	AT	EET ALB	09/25/24 08:17
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8021B		1	13002	AT	EET ALB	09/25/24 08:17
Total/NA	Prep	SHAKE			12860	KR	EET ALB	09/24/24 10:13
Total/NA	Analysis	8015M/D		1	12967	KR	EET ALB	09/25/24 09:37
Total/NA	Prep	300_Prep			12900	EH	EET ALB	09/24/24 14:14
Total/NA	Analysis	300.0		20	12906	EH	EET ALB	09/24/24 18:32

Client Sample ID: WES24-09 @ 0-4'
Date Collected: 09/16/24 11:33
Date Received: 09/21/24 08:05

Lab Sample ID: 885-12300-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8015M/D		1	13001	AT	EET ALB	09/25/24 08:39
Total/NA	Prep	5030C			12766	JP	EET ALB	09/23/24 11:46
Total/NA	Analysis	8021B		1	13002	AT	EET ALB	09/25/24 08:39
Total/NA	Prep	SHAKE			12860	KR	EET ALB	09/24/24 10:13
Total/NA	Analysis	8015M/D		1	12967	KR	EET ALB	09/25/24 09:49
Total/NA	Prep	300_Prep			12900	EH	EET ALB	09/24/24 14:14
Total/NA	Analysis	300.0		20	12906	EH	EET ALB	09/24/24 19:10

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

Accreditation/Certification Summary

Client: Vertex
Project/Site: Gaucho Unit 6

Job ID: 885-12300-1

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

Chain-of-Custody Record

Client: Vertex (Bill to Devon)

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☐ Standard ☒ Rush 48 hour

Project Name:

Gaucho Unit 6

Project #:

23E-05499

Project manager Chad Hensley

Chensley@Vertexresource.com

Rplogger@vertexresource.com

Sampler: Riley Plogger

On Ice: ☒ Yes ☐ No

of Coolers: 1 909.

Cooler Temp (including CF): 2.2 + 0.3 = 2.5

Container
Type and #Preservative
Type

HEAL No.

Date Time Matrix Sample Name

Date	Time	Matrix	Sample Name
9.16.24 08:16:24	10:15	Soil	BES24-01 @ 2'
	10:18		BES24-02 @ 2'
	10:21		BES24-03 @ 2'
	10:27		BES24-04 @ 2'
	10:31		BES24-05 @ 2'
	10:35		BES24-06 @ 2'
	10:39		BES24-07 @ 2'
	10:43		BES24-08 @ 2'
	10:46		BES24-09 @ 2'
	10:48		BES24-10 @ 2'
	10:52		BES24-11 @ 2'
	10:57		BES24-12 @ 2'

1, 4oz jar

ICE

1

2

3

4

5

6

7

8

9

10

11

12

HALL ENVIRONMENTAL
ANALYSIS LABO

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87

Tel. 505-345-3975 Fax 505-345-4107



885-12300 COC

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 ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)										
X	X					X													

Date: 9.19.24 Time: 4:40 Relinquished by: R. W. Prosser

Received by: Via: Date: 9/20/24 Time: 9:30

Remarks:

WO# 21222677

Dale Woodall

1 of 3

Date: 9/19/24 Time: 1900 Relinquished by: R. W. Prosser

Received by: Via: Date: 9/20/24 Time: 8:05

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.

Released to Imaging: 2/25/2025 11:04:45 AM

Page 60 of 62

Chain-of-Custody Record

Client: **Vertex (Bill to Devon)**

Turn-Around Time:

☐ Standard☒ Rush 48 Hour

Project Name:

Gaucha Unit 6

Project #:

23E-05499

Project manager

Chad Hensley

Chensley@Vertexresource.comRplogger@vertexresource.com

Sampler: Riley Plogger

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): 7.2 + 0.3 = 7.5Container
Type and #Preservative
Type

HEAL No.

Date Time Matrix Sample Name

9.16.24 11:21 Soil WES24-05 @ 0-1'

1, 4oz jar

ICE

25

X

X

X

11:37 WES24-06 @ 0-4'

26

11:44 WES24- 07 @ 0-4'

SCM 3 27

11:29 WES24-08 @ 0-4'

a/21/24 4 28

11:33 WES24-09 @ 0-4'

5 29

Date: Time: Relinquished by:

9.19.24 4:41 Riley Plogger

Received by: Via:

Date Time

9/20/24 9:30

Remarks:

WO# 21222677

Dale Woodall

Date: Time: Relinquished by:

9/20/24 19:00 [Signature]

Received by: Via:

Date Time

9/21/24 8:00

3 of 3

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

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTX / 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)

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-12300-1

Login Number: 12300

List Source: Eurofins Albuquerque

List Number: 1

Creator: McQuiston, Steven

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Report to:
Chad Hensley



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Vertex Resource Services Inc.

Project Name: Gaucho Unit 6

Work Order: E410309

Job Number: 01058-0007

Received: 10/25/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/1/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/1/24

Chad Hensley
3101 Boyd Drive
Carlsbad, NM 88220



Project Name: Gaucho Unit 6
Workorder: E410309
Date Received: 10/25/2024 5:30:00AM

Chad Hensley,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/25/2024 5:30:00AM, under the Project Name: Gaucho Unit 6.

The analytical test results summarized in this report with the Project Name: Gaucho Unit 6 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
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mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Vertex Resource Services Inc.	Project Name:	Gaucha Unit 6	Reported:
3101 Boyd Drive	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	11/01/24 08:14

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
WES24-08 @ 0-4'	E410309-01A	Soil	10/23/24	10/25/24	Glass Jar, 2 oz.



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Gaucho Unit 6 Project Number: 01058-0007 Project Manager: Chad Hensley	Reported: 11/1/2024 8:14:55AM
--	--	----------------------------------

WES24-08 @ 0-4'
E410309-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2443187	
Benzene	ND	0.0250	1	10/25/24	10/31/24	
Ethylbenzene	ND	0.0250	1	10/25/24	10/31/24	
Toluene	ND	0.0250	1	10/25/24	10/31/24	
o-Xylene	ND	0.0250	1	10/25/24	10/31/24	
p,m-Xylene	ND	0.0500	1	10/25/24	10/31/24	
Total Xylenes	ND	0.0250	1	10/25/24	10/31/24	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		10/25/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2443187	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/24	10/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.9 %	70-130		10/25/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2443227	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/26/24	10/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/26/24	10/29/24	
Surrogate: n-Nonane	102 %	50-200		10/26/24	10/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2444028	
Chloride	209	20.0	1	10/28/24	10/29/24	

QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Gaucho Unit 6 Project Number: 01058-0007 Project Manager: Chad Hensley	Reported: 11/1/2024 8:14:55AM
--	--	--------------------------------------

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2443187-BLK1)

Prepared: 10/25/24 Analyzed: 10/31/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.99		8.00		99.9	70-130			

LCS (2443187-BS1)

Prepared: 10/25/24 Analyzed: 10/31/24

Benzene	5.32	0.0250	5.00		106	70-130			
Ethylbenzene	5.17	0.0250	5.00		103	70-130			
Toluene	5.28	0.0250	5.00		106	70-130			
o-Xylene	5.19	0.0250	5.00		104	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.7	0.0250	15.0		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.07		8.00		101	70-130			

LCS Dup (2443187-BSD1)

Prepared: 10/25/24 Analyzed: 10/31/24

Benzene	5.24	0.0250	5.00		105	70-130	1.58	20	
Ethylbenzene	5.10	0.0250	5.00		102	70-130	1.48	20	
Toluene	5.20	0.0250	5.00		104	70-130	1.58	20	
o-Xylene	5.12	0.0250	5.00		102	70-130	1.35	20	
p,m-Xylene	10.4	0.0500	10.0		104	70-130	1.45	20	
Total Xylenes	15.5	0.0250	15.0		103	70-130	1.42	20	
Surrogate: 4-Bromochlorobenzene-PID	8.10		8.00		101	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Gaucho Unit 6 Project Number: 01058-0007 Project Manager: Chad Hensley	Reported: 11/1/2024 8:14:55AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD % %	RPD Limit %	Notes
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Blank (2443187-BLK1) Prepared: 10/25/24 Analyzed: 10/31/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.11		8.00		88.9	70-130			

LCS (2443187-BS2) Prepared: 10/25/24 Analyzed: 10/31/24

Gasoline Range Organics (C6-C10)	39.8	20.0	50.0		79.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.2	70-130			

LCS Dup (2443187-BSD2) Prepared: 10/25/24 Analyzed: 10/31/24

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0		84.0	70-130	5.33	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.2	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Gaucho Unit 6 Project Number: 01058-0007 Project Manager: Chad Hensley	Reported: 11/1/2024 8:14:55AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2443227-BLK1)					Prepared: 10/26/24 Analyzed: 10/29/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.4		50.0		105	50-200			

LCS (2443227-BS1)					Prepared: 10/26/24 Analyzed: 10/29/24				
Diesel Range Organics (C10-C28)	273	25.0	250		109	38-132			
Surrogate: n-Nonane	56.5		50.0		113	50-200			

LCS Dup (2443227-BSD1)					Prepared: 10/26/24 Analyzed: 10/29/24				
Diesel Range Organics (C10-C28)	254	25.0	250		101	38-132	7.37	20	
Surrogate: n-Nonane	53.9		50.0		108	50-200			



QC Summary Data

Vertex Resource Services Inc.	Project Name:	Gaucha Unit 6	Reported:
3101 Boyd Drive	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Chad Hensley	11/1/2024 8:14:55AM

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444028-BLK1)					Prepared: 10/28/24 Analyzed: 10/28/24				
Chloride	ND	20.0							
LCS (2444028-BS1)					Prepared: 10/28/24 Analyzed: 10/28/24				
Chloride	249	20.0	250		99.6	90-110			
LCS Dup (2444028-BSD1)					Prepared: 10/28/24 Analyzed: 10/28/24				
Chloride	249	20.0	250		99.5	90-110	0.102	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Vertex Resource Services Inc.	Project Name:	Gaucho Unit 6	
3101 Boyd Drive	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Chad Hensley	11/01/24 08:14

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



[illegible]

Envirotech Analytical Laboratory

Printed: 10/25/2024 10:00:32AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Vertex Resource Services Inc.	Date Received:	10/25/24 05:30	Work Order ID:	E410309
Phone:	(575) 748-0176	Date Logged In:	10/25/24 05:48	Logged In By:	Noe Soto
Email:	chensley@vertexresources.com	Due Date:	10/31/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Sampled by name is missing on COC by client.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:

Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

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Phone: (505) 476-3441

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

QUESTIONS

Action 400485

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 400485
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2327932405
Incident Name	NAPP2327932405 GAUCHO UNIT #006 @ 30-025-34789
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-34789] GAUCHO UNIT #006

Location of Release Source*Please answer all the questions in this group.*

Site Name	GAUCHO UNIT #006
Date Release Discovered	10/05/2023
Surface Owner	Federal

Incident Details*Please answer all the questions in this group.*

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

Nature and Volume of Release*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pump Produced Water Released: 95 BBL Recovered: 90 BBL Lost: 5 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)	leak was found on the discharge side of water transfer pump piping 95 bbls PW spilled on pad and offsite. 90 bbls recovered.

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QUESTIONS, Page 2

Action 400485

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 400485
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
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: James Raley Title: EHS Professional Email: jim.raley@dvni.com Date: 11/07/2024
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QUESTIONS, Page 3

Action 400485

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 400485
	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 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (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	Yes

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)	13000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	16100
GRO+DRO (EPA SW-846 Method 8015M)	11000
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	09/12/2024
On what date will (or did) the final sampling or liner inspection occur	10/23/2024
On what date will (or was) the remediation complete(d)	10/23/2024
What is the estimated surface area (in square feet) that will be reclaimed	791
What is the estimated volume (in cubic yards) that will be reclaimed	158
What is the estimated surface area (in square feet) that will be remediated	3040
What is the estimated volume (in cubic yards) that will be remediated	295

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 400485

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 400485
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>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>	
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: James Raley Title: EHS Professional Email: jim.raley@dmv.com Date: 11/07/2024
<i>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.</i>	

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QUESTIONS, Page 5

Action 400485

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 400485
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 400485

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 400485
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	393946
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/23/2024
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	190

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	3040
What was the total volume (cubic yards) remediated	295
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	791
What was the total volume (in cubic yards) reclaimed	158
Summarize any additional remediation activities not included by answers (above)	Impacted soils removed.

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: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 11/07/2024
--	--

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QUESTIONS, Page 7

Action 400485

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 400485
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 400485

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 400485
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	2/25/2025