Incident Number: 2RP-3438/nAB1534452923

Release Assessment and Closure

Todd 36 State #001 Pasture

Section 26, Township 23 South, Range 31 East

API: 30-015-20341

County: Eddy

Vertex File Number: 25A-01349

Prepared for:

Devon Energy Production Company

Prepared by:

Vertex Resource Services Inc.

Date:

September 2025

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Release Assessment and Closure
Todd 36 State #001 Pasture
Section 26, Township 23 South, Range 31 East
API: 30-015-20341
County: Eddy

Prepared for:
Devon Energy Production Company
6488 Seven Rivers Highway
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October 31, 2025
Date

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January 20, 2026
Date

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1.0 Introduction

Devon Energy Production Company (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment and Closure for a produced water release that occurred on December 3, 2015, at Todd 36 State 1 Pasture API 30-015-20341 (hereafter referred to as the "site"). Devon submitted an initial C-141 Release Notification (Appendix A) to New Mexico Oil Conservation Division (NMOCD) District 2 on December 8, 2015. Incident number nAB1534452923, 2RP-3438, was assigned to this incident.

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

2.0 Incident Description

The release occurred on December 3, 2015, due to corrosion on a water line coming from Todd 26 SWD. The incident was reported on December 8, 2015, and involved the release of approximately 1,160 barrels (bbl.) of produced water into the pasture northwest of the site. Approximately 30 bbl. of free fluids were removed during the initial clean-up. Additional details relevant to the release are presented in the C-141 Report. Daily Field Report (DFRs) with site photographs are included in Appendix C.

3.0 Site Characteristics

The site is located approximately 20 miles east of Loving, New Mexico (Google Inc., 2023). The legal location for the site is Section 26, Township 23 South and Range 31 East in Eddy County, New Mexico. The release area is located on State property. An aerial photograph and site schematic are presented on Figure 1.

The location is typical of oil and gas exploration and production sites in the Permian Basin and is currently used for oil and gas production and storage. The following sections specifically describe the release area into the pasture northwest of the site, on or in proximity to the constructed pad (Figure 1).

The surrounding landscape is associated with plains and alluvial fans with elevations ranging between 3,000 and 4,200 feet. The climate is semiarid with average annual precipitation ranging between 10 and 14 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be grasses with shrubs. Grasses dominate the historic plant community (United States Department of Agriculture, Natural Resources Conservation Service, 2023). Limited to no vegetation is allowed to grow on the compacted production pad, right-of-way and access road.

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The surface geology at the site primarily comprises Qep – Eolian and piedmont deposits (Holocene to middle Pleistocene), interlayed eolian sands and piedmont-slope deposits (New Mexico Bureau of Geology and Mineral Resources, 2021) and the soil at the site is characterized as Simona and Wink (United States Department of Agriculture, Natural Resources Conservation Service, 2023). Additional soil characteristics include a predominant soil texture that is sandy, is of a well-drained drainage class with a very high runoff class. The karst geology potential for the site is low (United States Department of the Interior, Bureau of Land Management, 2018).

4.0 Closure Criteria Determination

The nearest active water well to the site is a developed well 0.39 miles to the southwest.

There is no surface water present at the site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is an intermittent stream located approximately 3.92 miles southwest of the site (United States Fish and Wildlife Service, 2025). 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 nearest depth to groundwater reference to the site is livestock water well drilled 0.4 miles to the southwest on November 1, 2013. Depth to groundwater at the well was 430 feet below ground surface (bgs; New Mexico Office of the State Engineer, 2025b). Information pertaining to the depth to ground water determination is included in Appendix A.

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Table 1. Closure Criteria Determination			
Site Name: Todd 36 State #001 Pasture			
Spill Coordinates: 32.271810,-103.744224		**X: 618268**	**Y: 3571257**
Site Specific Conditions		**Value**	**Unit**
1	Depth to Groundwater (nearest reference)	**430**	feet
	Distance between release and nearest DTGW reference	**2,126**	feet
		0.40	miles
	Date of nearest DTGW reference measurement	**November 1, 2013**	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	20,700	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	22,743	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	26,477	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**	2,126	feet
	ii) Within 1000 feet of any fresh water well or spring	2,073	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	15,747	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
	Distance between release and nearest registered mine	52,472	feet
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
	Distance between release and nearest Medium Karst	27,152	feet
10	Within a 100-year Floodplain	>500	year
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	30,375	feet
11	Soil Type	Fine sandy loam	
12	Ecological Classification	Shallow sandy	
13	Geology	Eolian and piedmont deposits	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	>100'	<50' 51-100' >100'

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The release area was in pasture and not on an active pad and, therefore, must meet reclamation criteria to meet requirements for incident closure. The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 2.

Table 2. Closure Criteria for Soils to Remediation & Reclamation Standards

Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Limit
0-4 feet bgs (19.15.29.13)	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
DTGW > 100 feet (19.15.29.12)	Chloride	20,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

TDS – total dissolved solids
TPH – total petroleum hydrocarbons, GRO – gas range organics, DRO – diesel range organics, MRO – motor oil range organics
BTEX – benzene, toluene, ethylbenzene and xylenes

5.0 Remedial Actions Taken

Initial site inspection and site characterization activities at the site were completed by Vertex between October 12 and October 19, 2022, including horizontal and vertical delineation. The impacted area was determined to be approximately 78,510 square feet. The DFRs associated with the site inspection is included in Appendix C.

Remediation efforts began on October 12, 2022, and were finalized on May 24, 2023. Remediation was executed by excavation to closure criteria. Vertex personnel supervised the excavation of impacted soils. Field screening was completed on a total of 250 sample points and consisted of analysis using a Photo Ionization Detector (volatile hydrocarbons), Dexsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and electrical conductivity meter (chlorides). Field screening results were used to identify areas requiring further remediation (Table 3). Soils were removed to a depth of 4 feet bgs. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility as stipulated by the Form C-138 Request for Approval to Accept Solid Waste – New Mexico filed with the NMOCD. DFRs documenting various phases of the remediation are presented in Appendix C.

On December 28, 2022, NMOCD approved a confirmation variance for 5-point composite samples representative of no more than 500 square feet. Notification that confirmatory samples were being collected was provided to the NMOCD on December 8, 2022, and January 10 and 23, February 13, and March 21, 2023, and is included in Appendix D. Confirmatory composite samples were collected from the walls of the excavation in increments no greater than 200 square feet. The approximate area of the excavation wall was 6,088 square feet. Confirmatory composite samples were collected from the base of the excavation in increments no greater than 500 square feet per the variance. The approximate area of the excavation base was 88,303 square feet. A total of 250 (214 base, 36 wall) samples were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Hall

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Environmental Analysis Laboratory under chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA Method 300.0). Laboratory results are presented in Table 4, and the laboratory data reports are included in Appendix E. All confirmatory samples collected and analyzed were below closure criteria for the site.

6.0 Reclamation Compliance

The incident occurred in pastureland adjacent to active oil and gas production pads. The release was remediated to reclamation criteria, leaving no additional contamination in the top 4 ft. The excavation was backfilled with non-waste containing, locally sourced, material, composed of topsoil in the top foot and caliche in the bottom three feet (Table 4). The surface was contoured to match the surrounding area and stabilized to minimize erosion.

The excavation area was initially seeded in the first growing season post-backfilling. The former release area was seeded with BLM seed 1 and 2 via broadcast with on May 24, 2023. A follow up site visit conducted on May 2, 2025, found little to no vegetation growth. A soil quality field test of the backfill was compared to that of the undisturbed surrounding pastureland was conducted for PH, nitrogen, phosphorous, and potassium concentration. The field tests suggested that while the soils were a similar PH, the backfill is nutrient poor compared to the surrounding soil. Upon the acceptance of this closure, corrective actions will be taken to ensure the release area reaches 70% non-noxious weed vegetation coverage.

7.0 Closure Request

The release area was fully delineated, remediated, backfilled with local soils and seeded by May 24, 2023. Laboratory analyses of the final confirmatory samples showed constituent of concern concentration levels below NMOCD reclamation closure criteria for areas where depth to groundwater is greater than 100 feet bgs as shown in Table 2. There are no anticipated risks to human, ecological or hydrological receptors associated with the release sites.

Vertex requests that this incident (nAB1534452923, 2RP-3438,) 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 are 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 December 3, 2015, release at Todd 36 State #001 Pasture.

The release area was confirmed to meet NMOCD reclamation standard as outlined in Subsections A, B, C, D.1, and D.2 of 19.15.29.13 NMAC by May 24, 2023. Confirmatory and backfill samples were analyzed by the laboratory and found to be below allowable concentrations as per the NMAC Closure Criteria for Soils impacted by a Release locations greater than 100 feet to groundwater. Based on these findings, Devon Energy Production Company LP requests that this release be closed.

Should you have any questions or concerns, please do not hesitate to contact Sally Carttar at 575.361.3561 or scarttar@vertex.ca.

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8.0 References

Google Inc. (2023). *Google Earth Pro (Version 7.3.3)* [Software]. Retrieved from https://earth.google.com

New Mexico Bureau of Geology and Mineral Resources. (2021). *Interactive Geologic Map*. Retrieved from https://maps.nmt.edu/

New Mexico Department of Surface Water Quality Bureau. (2023). *Assessed and Impaired Waters of New Mexico*. Retrieved from https://gis.web.env.nm.gov/oem/?map=swqb

New Mexico Energy, Minerals and Natural Resources Department. (2023). *OCD Permitting - Spill Search*. Retrieved from https://wwwapps.emnrd.nm.gov/ocd/ocdpermitting/Data/Spills/Spills.aspx

New Mexico Mining and Minerals Division. (2023). *Coal Mine Resources in New Mexico*. Retrieved from https://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=5f80f3b0faa545e58fe747cc7b037a93

New Mexico Office of the State Engineer. (2023a). *Point of Diversion Location Report - New Mexico Water Rights Reporting System*. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/wellSurfaceDiversion.html

New Mexico Office of the State Engineer. (2023b). *Water Column/Average Depth to Water Report - New Mexico Water Rights Reporting System*. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html

New Mexico Office of the State Engineer. (2023c). *Well Log/Meter Information Report - New Mexico Water Rights Reporting System*. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/meterReport.html

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

United States Department of Agriculture, Natural Resources Conservation Service. (2023). *Web Soil Survey*. Retrieved from https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx

United States Department of Homeland Security, Federal Emergency Management Agency. (2021). *FEMA Flood Map Service: Search by Address*. Retrieved from https://msc.fema.gov/portal/search?AddressQuery=malaga%20new%20mexico#searchresultsanchor

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

United States Geological Survey. (2023). *National Water Information System: Web Interface*. Retrieved from https://waterdata.usgs.gov/nwis

United States Fish and Wildlife Service. (2023). *National Wetland Inventory - Surface Waters and Wetlands*. Retrieved from https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/

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9.0 Limitations

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

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

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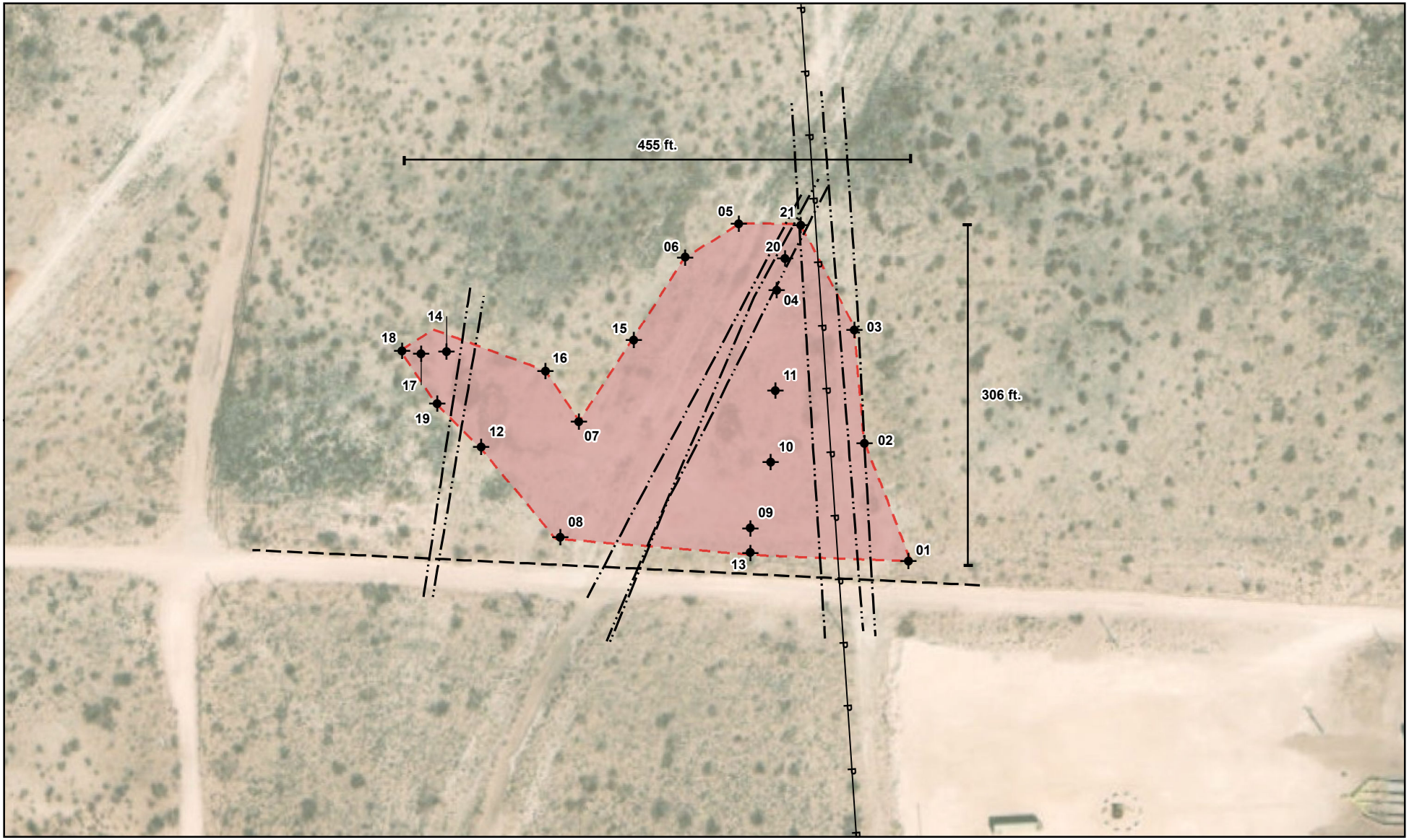
FIGURES



Borehole (Prefixed by "BH22-") | Above Ground Power Line | Pipeline (Aboveground) | Pipeline (Underground) | Release Area (~78,510 sq. ft.)

VERTEX

0 25 50 100 Feet

Map Center:
Lat/Long: 32.272203, -103.744662

NAD 1983 UTM Zone 13N
Date: Oct 26/22

N

Characterization Schematic
Todd 36 State #001 - Pasture

FIGURE: 1

devon

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

Note: Background imagery from Maxar, 2022. Features from GPS. Vertex Professional Services Ltd., 2022.

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Document Path: G:\1-Projects_US PROJECTS\Devon Energy Corporation\21E-02816\022 - Todd 36 State 1\Figure 1 Characterization Schematic Todd 36 State 1.mxd

● Base Sample (Prefixed by "BS23-") ▲ Wall Sample (Prefixed by "WS23-") Pipeline Excavation to 4 ft. bgs (~88,303 sq.ft.)

VERTEX

0 25 50 100 Ft.

Map Center:
Lat/Long: 32.272276, -103.744691

NAD 1983 UTM Zone 13N
Date: Mar 30/23

N

Confirmation Sample Locations
Todd 36 Federal #001 - Pasture

FIGURE: 2

devon

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

Note: Background imagery from Google Earth, 2017. Base sample, wall sample and approximat realease area from GPS. Vertex Professional Services Ltd., 2023.

VERSATILITY. EXPERTISE.

Document Path: G:\1-Projects_US PROJECTS\Devon Energy Corporation\2021\21E-02816\022 - Todd 36 State 1\Figure 2 Confirmation Sample Locations Schematic_Todd 36 Fed 1_Pasture (21E-02816).mxd

TABLES

Client Name: Devon Energy Production Company, LP
Site Name: Todd 36 State #001 Pasture
NMOCD Tracking #: naB1534452923
Project #: 25A-01349
Lab Reports: 2210930, 2210A34 and 2210B05

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

Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
						Volatile		Extractable					
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH22-01	0	October 14, 2022	-	-	33	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 14, 2022	-	-	1,519	ND	ND	ND	ND	ND	ND	ND	**1,400**
	4	October 14, 2022	-	14	0	ND	ND	ND	ND	ND	ND	ND	ND
BH22-02	0	October 14, 2022	-	-	1,210	-	-	-	-	-	-	-	-
	2	October 14, 2022	-	-	4,182	-	-	-	-	-	-	-	-
	4	October 14, 2022	-	20	1,498	-	-	-	-	-	-	-	-
BH22-03	0	October 14, 2022	-	-	232	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 14, 2022	-	-	256	ND	ND	ND	ND	ND	ND	ND	ND
	4	October 14, 2022	-	15	300	ND	ND	ND	ND	ND	ND	ND	62
BH22-04	0	October 14, 2022	-	-	6,564	-	-	-	-	-	-	-	-
	2	October 14, 2022	-	-	6,380	-	-	-	-	-	-	-	-
	4	October 14, 2022	-	28	6,097	-	-	-	-	-	-	-	-
BH22-05	0	October 14, 2022	-	-	207	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 14, 2022	-	-	1,271	ND	ND	ND	ND	ND	ND	ND	**860**
	4	October 14, 2022	-	23	324	ND	ND	ND	ND	ND	ND	ND	87
BH22-06	0	October 14, 2022	-	-	170	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 14, 2022	-	-	196	ND	ND	ND	ND	ND	ND	ND	ND
	4	October 14, 2022	-	26	259	ND	ND	ND	ND	ND	ND	ND	ND
BH22-07	0	October 14, 2022	-	-	860	ND	ND	ND	ND	ND	ND	ND	**610**
	2	October 14, 2022	-	-	13,217	ND	ND	ND	ND	ND	ND	ND	**13,000**
	4	October 14, 2022	-	-	5,992	ND	ND	ND	ND	ND	ND	ND	**4,700**
	6	October 14, 2022	-	29	5,227	ND	ND	ND	ND	ND	ND	ND	3,700
	8	October 18, 2022	-		4,517	-	-	-	-	-	-	-	-
	10	October 18, 2022	-	27	427	ND	ND	ND	ND	ND	ND	ND	190
BH22-08	0	October 14, 2022	-	-	144	-	-	-	-	-	-	-	-
	2	October 14, 2022	-	-	272	-	-	-	-	-	-	-	-
	4	October 14, 2022	-	19	181	-	-	-	-	-	-	-	-
BH22-09	0	October 14, 2022	-	-	307	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 14, 2022	-	-	3,059	ND	ND	ND	ND	ND	ND	ND	**2,600**
	4	October 14, 2022	-	25	1,840	ND	ND	ND	ND	ND	ND	ND	**1,600**
BH22-10	0	October 14, 2022	-	-	1,488	ND	ND	ND	ND	ND	ND	ND	**970**
	2	October 14, 2022	-	-	395	ND	ND	ND	ND	ND	ND	ND	110
	4	October 14, 2022	-	-	409	ND	ND	ND	ND	ND	ND	ND	94
	6	October 14, 2022	-	26	587	ND	ND	ND	ND	ND	ND	ND	130
BH22-11	0	October 14, 2022	-	-	105	-	-	-	-	-	-	-	-
	2	October 14, 2022	-	-	1,710	-	-	-	-	-	-	-	-
	4	October 14, 2022	-	-	12,572	-	-	-	-	-	-	-	-
	6	October 14, 2022	-	27	3,091	-	-	-	-	-	-	-	-
BH22-12	0	October 18, 2022	-	-	0	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 18, 2022	-	-	129	ND	ND	ND	ND	ND	ND	ND	ND
	4	October 18, 2022	-	20	272	ND	ND	ND	ND	ND	ND	ND	160
BH22-13	0	October 18, 2022	-	-	47	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 18, 2022	-	-	220	ND	ND	ND	ND	ND	ND	ND	140
	4	October 18, 2022	-	13	72	ND	ND	ND	ND	ND	ND	ND	ND

Client Name: Devon Energy Production Company, LP
Site Name: Todd 36 State #001 Pasture
NMOCD Tracking #: naB1534452923
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Table 3. Initial Characterization Sample Field Screen and Laboratory Results - Depth to Groundwater >100 feet bgs

Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
						Volatile		Extractable					
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH22-14	0	October 18, 2022	-	-	10,588	-	-	-	-	-	-	-	-
	2	October 18, 2022	-	-	9,683	-	-	-	-	-	-	-	-
	4	October 18, 2022	-	-	10,706	-	-	-	-	-	-	-	-
	7	October 18, 2022	-	37	8,882	-	-	-	-	-	-	-	-
BH22-15	0	October 18, 2022	-	-	0	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 18, 2022	-	-	59	ND	ND	ND	ND	ND	ND	ND	ND
	4	October 18, 2022	-	0	21	ND	ND	ND	ND	ND	ND	ND	ND
BH22-16	0	October 19, 2022	-	-	210	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 19, 2022	-	-	225	ND	ND	ND	ND	ND	ND	ND	ND
	4	October 19, 2022	-	20	291	ND	ND	ND	ND	ND	ND	ND	ND
BH22-17	0	October 19, 2022	-	-	165	-	-	-	-	-	-	-	-
	2	October 19, 2022	-	-	3,293	-	-	-	-	-	-	-	-
	4	October 19, 2022	-	52	1,822	-	-	-	-	-	-	-	-
BH22-18	0	October 19, 2022	-	-	106	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 19, 2022	-	-	197	ND	ND	ND	ND	ND	ND	ND	ND
	4	October 19, 2022	-	19	183	ND	ND	ND	ND	ND	ND	ND	ND
BH22-19	0	October 19, 2022	-	-	47	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 19, 2022	-	-	181	ND	ND	ND	ND	ND	ND	ND	74
	4	October 19, 2022	-	43	108	ND	ND	ND	ND	ND	ND	ND	ND
BH22-20	0	October 19, 2022	-	-	0	-	-	-	-	-	-	-	-
	2	October 19, 2022	-	-	458	-	-	-	-	-	-	-	-
	4	October 19, 2022	-	-	1,597	-	-	-	-	-	-	-	-
BH22-21	0	October 19, 2022	-	-	0	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 19, 2022	-	-	0	ND	ND	ND	ND	ND	ND	ND	ND
	4	October 19, 2022	-	25	10	ND	ND	ND	ND	ND	ND	ND	ND

"ND" Not Detected at the Reporting Limit
"-" indicates not analyzed/assessed
Bold and green shaded indicates exceedance outside of NMOCD Reclamation Closure Criteria
Bold and grey shaded indicates exceedance outside of NMOCD Remediation Closure Criteria

Client Name: Devon Energy Production Company, LP
Site Name: Todd 36 State #001 Pasture
NMOCD Tracking #: naB1534452923
Project #: 25A-01349
Lab Reports: 2301573, 2301622, 2301871, 2301869, 2301A36, 2301A80, 2301B22, 2302006, 2302145, 2302199 and 2303C83

Table 4. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater >100 feet bgs

Sample Description			Petroleum Hydrocarbons							Inorganic
			Volatile		Extractable					
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Backfill	-	May 3, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BS23-01	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	470
BS23-02	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	230
BS23-03	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	1,200
BS23-04	4	January 13, 2023	ND	ND	ND	12	ND	12	12	340
BS23-05	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	3,300
BS23-06	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	3,800
BS23-07	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	5,300
BS23-08	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-09	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	64
BS23-10	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-11	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-12	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-13	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	2,800
BS23-14	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	1,700
BS23-15	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	17,000
BS23-16	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	2,100
BS23-17	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	1,300
BS23-18	4	January 13, 2023	ND	ND	ND	12	ND	12	12	6,000
BS23-19	2	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	9,700
BS23-20	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	760
BS23-21	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	4,600
BS23-22	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	5,000
BS23-23	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	1,600
BS23-24	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	8,000
BS23-25	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	6,500
BS23-26	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	4,100
BS23-27	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	3,500
BS23-28	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	7,600
BS23-29	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	10,000
BS23-30	4	January 13, 2023	ND	ND	ND	11	ND	11	11	3,000
BS23-31	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	1,500
BS23-32	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	200
BS23-33	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	5,400
BS23-34	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	9,000
BS23-35	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	3,300
BS23-36	4	January 13, 2023	ND	ND	ND	ND	ND	ND	ND	2,200

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Table 4. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater >100 feet bgs

Sample Description			Petroleum Hydrocarbons							Inorganic
			Volatile		Extractable					
Sample ID	Depth (ft)	Sample Date	Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)	Chloride Concentration (mg/kg)
BS23-37	4	January 14, 2023	ND	ND	ND	ND	ND	ND	ND	1,600
BS23-38	4	January 14, 2023	ND	ND	ND	ND	ND	ND	ND	2,000
BS23-39	4	January 14, 2023	ND	ND	ND	ND	ND	ND	ND	2,000
BS23-40	4	January 14, 2023	ND	ND	ND	ND	ND	ND	ND	5,100
BS23-41	4	January 14, 2023	ND	ND	ND	ND	ND	ND	ND	9,800
BS23-42	4	January 14, 2023	ND	ND	ND	ND	ND	ND	ND	400
BS23-43	4	January 14, 2023	ND	ND	ND	ND	ND	ND	ND	4,000
BS23-44	4	January 14, 2023	ND	ND	ND	ND	ND	ND	ND	5,400
BS23-45	4	January 14, 2023	ND	ND	ND	ND	ND	ND	ND	1,400
BS23-46	4	January 14, 2023	ND	ND	ND	ND	ND	ND	ND	2,100
BS23-47	4	January 14, 2023	ND	ND	ND	ND	ND	ND	ND	1,000
BS23-48	4	January 14, 2023	ND	ND	ND	ND	ND	ND	ND	310
BS23-49	4	January 14, 2023	ND	ND	ND	ND	ND	ND	ND	98
BS23-50	4	January 14, 2023	ND	ND	ND	ND	ND	ND	ND	230
BS23-52	4	January 14, 2023	ND	ND	ND	ND	ND	ND	ND	4,900
BS23-53	4	January 14, 2023	ND	ND	ND	ND	ND	ND	ND	2,400
BS23-54	4	January 14, 2023	ND	ND	ND	ND	ND	ND	ND	4,200
BS23-55	4	January 19, 2023	ND	ND	ND	ND	ND	ND	ND	81
BS23-56	4	January 19, 2023	ND	ND	ND	ND	ND	ND	ND	180
BS23-57	4	January 19, 2023	ND	ND	ND	ND	ND	ND	ND	8,600
BS23-58	4	January 19, 2023	ND	ND	ND	ND	ND	ND	ND	670
BS23-59	4	January 19, 2023	ND	ND	ND	ND	ND	ND	ND	10,000
BS23-60	4	January 19, 2023	ND	ND	ND	ND	ND	ND	ND	160
BS23-61	4	January 19, 2023	ND	ND	ND	ND	ND	ND	ND	300
BS23-62	4	January 19, 2023	ND	ND	ND	ND	ND	ND	ND	110
BS23-63	4	January 19, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-64	4	January 19, 2023	ND	ND	ND	ND	ND	ND	ND	2,700
BS23-65	4	January 19, 2023	ND	ND	ND	ND	ND	ND	ND	9,500
BS23-66	4	January 19, 2023	ND	ND	ND	ND	ND	ND	ND	110
BS23-67	4	January 19, 2023	ND	ND	ND	ND	ND	ND	ND	370
BS23-68	4	January 19, 2023	ND	ND	ND	ND	ND	ND	ND	7,900
BS23-69	4	January 19, 2023	ND	ND	ND	ND	ND	ND	ND	8,500
BS23-70	4	January 19, 2023	ND	ND	ND	ND	ND	ND	ND	1,800
BS23-71	4	January 19, 2023	ND	ND	ND	ND	ND	ND	ND	4,200
BS23-72	4	January 19, 2023	ND	ND	ND	ND	ND	ND	ND	790
BS23-73	4	January 19, 2023	ND	ND	ND	ND	ND	ND	ND	83
BS23-74	4	January 19, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-75	4	January 19, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-76	4	January 19, 2023	ND	ND	ND	ND	ND	ND	ND	380
BS23-77	4	January 19, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-78	4	January 20, 2023	0.026	0.026	ND	ND	ND	ND	ND	1,400
BS23-79	4	January 20, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-80	4	January 20, 2023	ND	ND	ND	ND	ND	ND	ND	ND

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Table 4. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater >100 feet bgs

Sample Description			Petroleum Hydrocarbons							Inorganic
			Volatile		Extractable					
Sample ID	Depth (ft)	Sample Date	Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)	Chloride Concentration (mg/kg)
BS23-81	4	January 20, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-82	4	January 20, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-83	4	January 20, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-84	4	January 20, 2023	ND	ND	ND	ND	ND	ND	ND	510
BS23-85	4	January 20, 2023	ND	ND	ND	ND	ND	ND	ND	970
BS23-86	4	January 20, 2023	ND	ND	ND	ND	ND	ND	ND	4,600
BS23-87	4	January 20, 2023	ND	ND	ND	ND	ND	ND	ND	14,000
BS23-88	4	January 20, 2023	ND	ND	ND	ND	ND	ND	ND	16,000
BS23-89	4	January 20, 2023	ND	ND	ND	ND	ND	ND	ND	180
BS23-90	4	January 20, 2023	ND	ND	ND	ND	ND	ND	ND	7,400
BS23-91	4	January 20, 2023	ND	ND	ND	ND	ND	ND	ND	590
BS23-92	4	January 20, 2023	ND	ND	ND	ND	ND	ND	ND	670
BS23-93	4	January 20, 2023	ND	ND	ND	ND	ND	ND	ND	360
BS23-94	4	January 20, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-95	4	January 21, 2023	ND	ND	ND	ND	ND	ND	ND	110
BS23-96	4	January 21, 2023	ND	ND	ND	ND	ND	ND	ND	4,900
BS23-97	4	January 21, 2023	ND	ND	ND	ND	ND	ND	ND	540
BS23-98	4	January 21, 2023	ND	ND	ND	ND	ND	ND	ND	2,400
BS23-99	4	January 21, 2023	ND	ND	ND	ND	ND	ND	ND	9,800
BS23-100	4	January 21, 2023	ND	ND	ND	ND	ND	ND	ND	6,800
BS23-101	4	January 21, 2023	ND	ND	ND	ND	ND	ND	ND	18,000
BS23-102	4	January 21, 2023	ND	ND	ND	ND	ND	ND	ND	850
BS23-103	4	January 21, 2023	0.027	0.027	ND	ND	ND	ND	ND	480
BS23-104	4	January 21, 2023	0.029	0.029	ND	ND	ND	ND	ND	ND
BS23-105	4	January 21, 2023	0.027	0.027	ND	ND	ND	ND	ND	62
BS23-106	4	January 21, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-107	4	January 21, 2023	0.033	0.098	ND	ND	ND	ND	ND	ND
BS23-108	4	January 21, 2023	ND	ND	ND	ND	ND	ND	ND	1,200
BS23-109	4	January 21, 2023	ND	ND	ND	ND	ND	ND	ND	710
BS23-110	4	January 21, 2023	ND	ND	ND	ND	ND	ND	ND	4,100
BS23-111	4	January 21, 2023	ND	ND	ND	ND	ND	ND	ND	1,100
BS23-112	4	January 25, 2023	ND	ND	ND	ND	ND	ND	ND	210
BS23-113	4	January 25, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-114	4	January 25, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-115	4	January 25, 2023	ND	ND	ND	ND	ND	ND	ND	63
BS23-116	4	January 25, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-117	4	January 25, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-118	4	January 25, 2023	ND	ND	ND	ND	ND	ND	ND	430
BS23-119	4	January 25, 2023	ND	ND	ND	ND	ND	ND	ND	71
BS23-120	4	January 25, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-121	4	January 25, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-122	4	January 25, 2023	ND	ND	ND	ND	ND	ND	ND	150

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Table 4. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater >100 feet bgs

Sample Description			Petroleum Hydrocarbons							Inorganic
			Volatile		Extractable					
Sample ID	Depth (ft)	Sample Date	Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)	Chloride Concentration (mg/kg)
BS23-123	4	January 25, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-124	4	January 25, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-125	4	January 25, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-126	4	January 25, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-127	4	January 25, 2023	ND	ND	ND	ND	ND	ND	ND	120
BS23-128	4	January 26, 2023	ND	ND	ND	ND	ND	ND	ND	99
BS23-129	4	January 26, 2023	ND	ND	ND	ND	ND	ND	ND	390
BS23-130	4	January 26, 2023	ND	ND	ND	ND	ND	ND	ND	120
BS23-131	4	January 26, 2023	ND	ND	ND	ND	ND	ND	ND	90
BS23-132	4	January 26, 2023	ND	ND	ND	ND	ND	ND	ND	1,300
BS23-133	4	January 26, 2023	ND	ND	ND	ND	ND	ND	ND	580
BS23-134	4	January 26, 2023	ND	ND	ND	ND	ND	ND	ND	140
BS23-135	4	January 26, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-136	4	January 26, 2023	ND	ND	ND	ND	ND	ND	ND	500
BS23-137	4	January 26, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-138	4	January 26, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-139	4	January 26, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-140	4	January 26, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-141	4	January 26, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-142	4	January 26, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-143	4	January 26, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-144	4	January 26, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-145	4	January 26, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-146	4	January 26, 2023	ND	ND	ND	ND	ND	ND	ND	280
BS23-147	4	January 26, 2023	ND	ND	ND	ND	ND	ND	ND	380
BS23-148	4	January 26, 2023	ND	ND	ND	ND	ND	ND	ND	1,600
BS23-149	4	January 26, 2023	ND	ND	ND	ND	ND	ND	ND	1,500
BS23-150	4	January 26, 2023	ND	ND	ND	ND	ND	ND	ND	1,200
BS23-151	4	January 26, 2023	ND	ND	ND	ND	ND	ND	ND	240
BS23-152	4	January 26, 2023	ND	ND	ND	ND	ND	ND	ND	410
BS23-153	4	January 26, 2023	ND	ND	ND	ND	ND	ND	ND	1,500
BS23-154	4	January 26, 2023	ND	ND	ND	ND	ND	ND	ND	340
BS23-155	4	January 27, 2023	ND	ND	ND	ND	ND	ND	ND	1,300
BS23-156	4	January 27, 2023	ND	ND	ND	ND	ND	ND	ND	4,200
BS23-157	4	January 27, 2023	ND	ND	ND	ND	ND	ND	ND	430
BS23-158	4	January 27, 2023	ND	ND	ND	ND	ND	ND	ND	330
BS23-159	4	January 27, 2023	ND	ND	ND	ND	ND	ND	ND	910
BS23-160	4	January 27, 2023	ND	ND	ND	ND	ND	ND	ND	930
BS23-161	4	January 27, 2023	ND	ND	ND	ND	ND	ND	ND	3,700
BS23-162	4	January 27, 2023	ND	ND	ND	ND	ND	ND	ND	270
BS23-163	4	January 27, 2023	ND	ND	ND	ND	ND	ND	ND	120
BS23-164	4	January 27, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-165	4	January 27, 2023	ND	ND	ND	ND	ND	ND	ND	620

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Table 4. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater >100 feet bgs

Sample Description			Petroleum Hydrocarbons							Inorganic
			Volatile		Extractable					
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BS23-166	4	January 27, 2023	ND	ND	ND	ND	ND	ND	ND	190
BS23-167	4	January 27, 2023	ND	ND	ND	ND	ND	ND	ND	200
BS23-168	4	January 27, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-169	4	January 30, 2023	ND	ND	ND	ND	ND	ND	ND	130
BS23-170	4	January 30, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-171	4	January 30, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-172	4	January 30, 2023	ND	ND	ND	ND	ND	ND	ND	63
BS23-173	4	January 30, 2023	ND	ND	ND	ND	ND	ND	ND	630
BS23-174	4	January 30, 2023	ND	ND	ND	ND	ND	ND	ND	100
BS23-175	4	January 30, 2023	ND	ND	ND	ND	ND	ND	ND	250
BS23-176	4	January 30, 2023	ND	ND	ND	ND	ND	ND	ND	800
BS23-177	4	January 30, 2023	ND	ND	ND	ND	ND	ND	ND	4,500
BS23-178	4	January 30, 2023	ND	ND	ND	9.5	ND	9.5	9.5	390
BS23-179	4	January 30, 2023	ND	ND	ND	ND	ND	ND	ND	83
BS23-180	4	January 30, 2023	ND	ND	ND	ND	ND	ND	ND	260
BS23-181	4	January 30, 2023	ND	ND	ND	ND	ND	ND	ND	4,200
BS23-182	4	January 31, 2023	ND	ND	ND	ND	ND	ND	ND	430
BS23-183	4	January 31, 2023	ND	ND	ND	11	ND	11	11	1,300
BS23-184	4	January 31, 2023	ND	ND	ND	13	ND	13	13	310
BS23-185	4	January 31, 2023	ND	ND	ND	8.9	ND	8.9	8.9	870
BS23-186	4	January 31, 2023	ND	ND	ND	11	ND	11	11	1,600
BS23-187	4	January 31, 2023	ND	ND	ND	10	ND	10	10	5,100
BS23-188	4	January 31, 2023	ND	ND	ND	ND	ND	ND	ND	3,500
BS23-189	4	January 31, 2023	ND	ND	ND	ND	ND	ND	ND	1,300
BS23-190	4	February 2, 2023	ND	ND	ND	ND	ND	ND	ND	300
BS23-191	4	February 2, 2023	ND	ND	ND	ND	ND	ND	ND	610
BS23-192	4	February 2, 2023	ND	ND	ND	ND	ND	ND	ND	570
BS23-193	4	January 31, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-194	4	January 31, 2023	ND	ND	ND	ND	ND	ND	ND	400
BS23-195	4	January 31, 2023	ND	ND	ND	ND	ND	ND	ND	640
BS23-196	4	January 31, 2023	ND	ND	ND	ND	ND	ND	ND	1,800
BS23-197	4	January 31, 2023	ND	ND	ND	ND	ND	ND	ND	2,300
BS23-198	4	January 31, 2023	ND	ND	ND	ND	ND	ND	ND	550
BS23-199	4	January 31, 2023	ND	ND	ND	ND	ND	ND	ND	1,400
BS23-200	4	January 31, 2023	ND	ND	ND	ND	ND	ND	ND	790
BS23-201	4	January 31, 2023	ND	ND	ND	ND	ND	ND	ND	180
BS23-202	4	January 31, 2023	ND	ND	ND	ND	ND	ND	ND	610
BS23-203	4	January 31, 2023	ND	ND	ND	ND	ND	ND	ND	3,500
BS23-204	4	January 31, 2023	ND	ND	ND	ND	ND	ND	ND	2,400
BS23-205	4	January 31, 2023	ND	ND	ND	ND	ND	ND	ND	2,500
BS23-206	4	February 1, 2023	ND	ND	ND	ND	ND	ND	ND	61
BS23-207	4	February 1, 2023	ND	ND	ND	ND	ND	ND	ND	750
BS23-208	4	February 1, 2023	ND	ND	ND	ND	ND	ND	ND	210
BS23-209	4	February 1, 2023	ND	ND	ND	ND	ND	ND	ND	170
BS23-210	4	February 1, 2023	ND	ND	ND	ND	ND	ND	ND	780

Client Name: Devon Energy Production Company, LP
Site Name: Todd 36 State #001 Pasture
NMOCD Tracking #: naB1534452923
Project #: 25A-01349
Lab Reports: 2301573, 2301622, 2301871, 2301869, 2301A36, 2301A80, 2301B22, 2302006, 2302145, 2302199 and 2303C83

Table 4. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater >100 feet bgs

Sample Description			Petroleum Hydrocarbons							Inorganic
			Volatile		Extractable					
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BS23-211	4	February 1, 2023	ND	ND	ND	ND	ND	ND	ND	190
BS23-212	4	February 1, 2023	ND	ND	ND	ND	ND	ND	ND	830
BS23-213	4	February 1, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BS23-214	4	February 1, 2023	ND	ND	ND	9.7	ND	9.7	9.7	ND
WS23-01	0-4	February 1, 2023	ND	ND	ND	ND	ND	ND	ND	290
WS23-02	0-4	February 1, 2023	ND	ND	ND	9.9	ND	9.9	9.9	300
WS23-03	0-4	February 1, 2023	ND	ND	ND	11	ND	11	11	190
WS23-04	0-4	February 1, 2023	ND	ND	ND	ND	ND	ND	ND	60
WS23-05	0-4	February 1, 2023	ND	ND	ND	9.2	ND	9.2	9.2	ND
WS23-06	0-4	February 1, 2023	ND	ND	ND	ND	ND	ND	ND	160
WS23-07	0-4	February 1, 2023	ND	ND	ND	ND	ND	ND	ND	ND
WS23-08	0-4	February 1, 2023	ND	ND	ND	ND	ND	ND	ND	91
WS23-09	0-4	February 1, 2023	ND	ND	ND	ND	ND	ND	ND	80
WS23-10	0-4	February 1, 2023	ND	ND	ND	ND	ND	ND	ND	70
WS23-11	0-4	February 2, 2023	ND	ND	ND	ND	ND	ND	ND	ND
WS23-12	0-4	February 2, 2023	ND	ND	ND	ND	ND	ND	ND	200
WS23-13	0-4	February 2, 2023	ND	ND	ND	ND	ND	ND	ND	87
WS23-14	0-4	February 2, 2023	ND	ND	ND	ND	ND	ND	ND	180
WS23-15	0-4	February 2, 2023	ND	ND	ND	ND	ND	ND	ND	120
WS23-16	0-4	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	ND
WS23-17	0-4	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	ND
WS23-18	0-4	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	ND
WS23-19	0-4	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	ND
WS23-20	0-4	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	77
WS23-21	0-4	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	ND
WS23-22	0-4	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	ND
WS23-23	0-4	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	ND
WS23-24	0-4	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	ND
WS23-25	0-4	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	ND
WS23-26	0-4	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	ND
WS23-27	0-4	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	ND
WS23-28	0-4	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	68
WS23-29	0-4	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	140
WS23-30	0-4	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	ND
WS23-31	0-4	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	ND
WS23-32	0-4	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	300
WS23-33	0-4	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	ND
WS23-34	0-4	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	ND
WS23-35	0-4	March 23, 2023	ND	ND	ND	ND	ND	ND	ND	82
WS23-36	0-4	March 23, 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

VERTEX

APPENDIX A - NMOCD C-141 Report

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

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NM OIL CONSERVATION
ARTESIA DISTRICT
DEC 08 2015
RECEIVED

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

nAB1534452923

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Devon Energy Production 10137	**Contact** Ruben Garcia Assistant Production Foreman
Address 6488 Seven Rivers Hwy Artesia, NM 88220	**Telephone No.** 575.748.5209
Facility Name Todd 36 State 1	**Facility Type** SWD

Surface Owner *State*	***Mineral Owner*** *Federal & State*	**API No.** *30-015-20341*

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	26	23S	31E	990	FSL	1980	FEL	Eddy

Latitude: 32.271810 **Longitude:** -103.744224

NATURE OF RELEASE

Type of Release Spill Produced water	**Volume of Release** 1160 BBL	**Volume Recovered** 30 BBL
Source of Release Water line leak	**Date and Hour of Occurrence** 12/03/15 at 3:45 pm	**Date and Hour of Discovery** 12/03/15 at 3:45 pm
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	**If YES, To Whom?** BLM Jim Amos OCD Mike Bratcher	
By Whom? Ruben Garcia Production Assistant Foreman	**Date and Hour** 12/04/15 11:23 BLM 12/04/15 11:26 OCD	
Was a Watercourse Reached? ☐ Yes ☒ No	**If YES, Volume Impacting the Watercourse** N/A	

If a Watercourse was Impacted, Describe Fully.* N/ A

Describe Cause of Problem and Remedial Action Taken.*
Corrosion caused a water line leak coming from the Todd 26 SWD going to the Todd 36 State 1. Shut valve at the Todd 26 SWD and valve at the Todd 36 State 1. Crew is currently working on repairing line.

Describe Area Affected and Cleanup Action Taken.*
1160 BBL of produced water was released and 30 BBL recovered by vacuum truck in a 21.681 square feet area. It was all on pasture, on the north side of lease road leading to the Todd 26 Fed 7. An environmental agency will be called out for remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Jeanette Barron

Printed Name: **Jeanette Barron**

Title: **Field Admin Support**

E-mail Address: **Jeanette.barron@dvn.com**

Date: 12/08/15 Phone: **575.748.1813**

OIL CONSERVATION DIVISION

Signed By [signature]
Approved by Environmental Specialist:

Approval Date: 12/10/15 Expiration Date: N/A

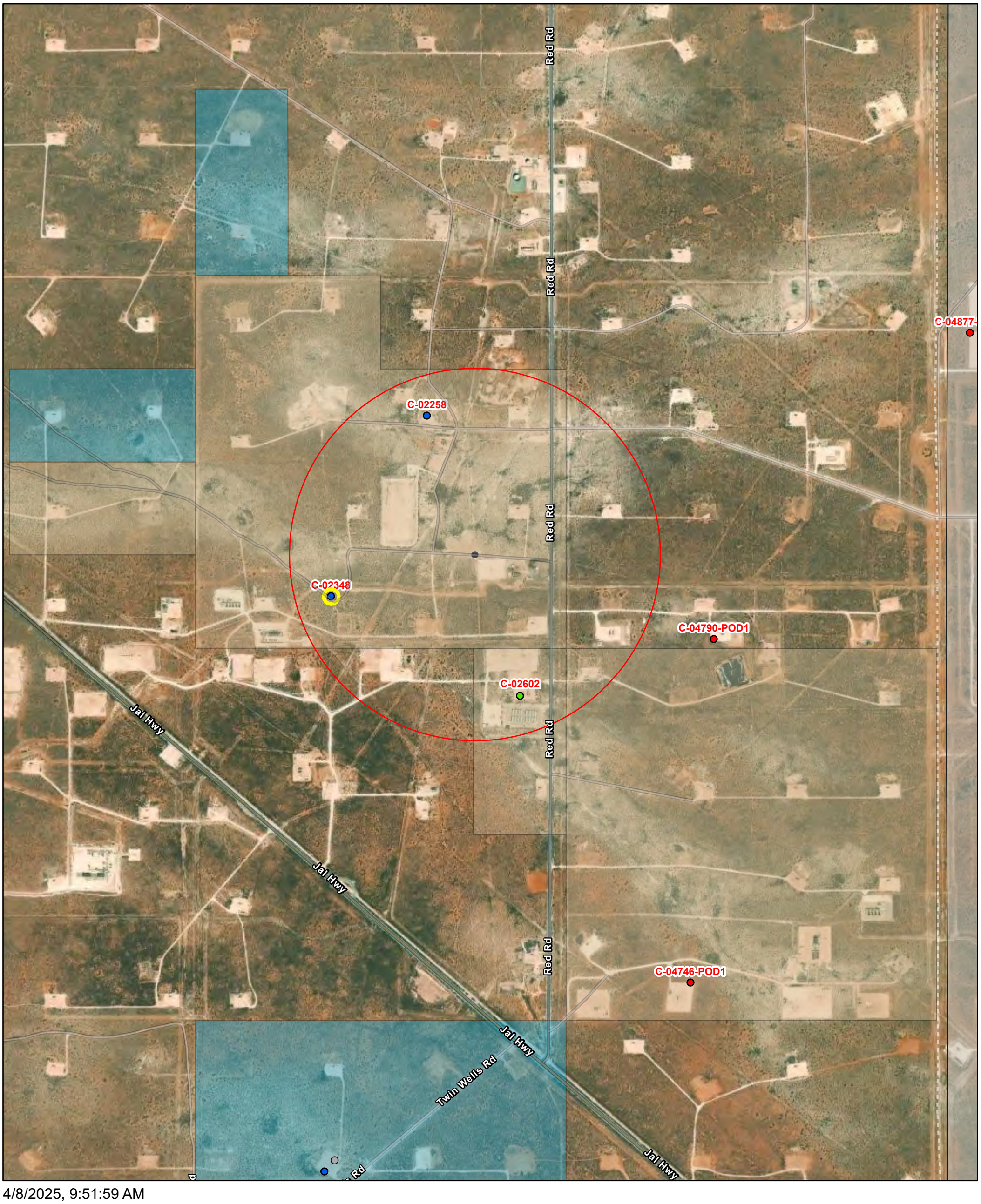
Conditions of Approval: Attached ☐
Remediation per O.C.D. Rules & Guidelines
SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 1/15/16

2RP-3458

* Attach Additional Sheets If Necessary

APPENDIX B – Closure Criteria Research Documentation

OSE POD 0.5 miles



4/8/2025, 9:51:59 AM

GIS WATERS PODs

- Active
- Pending
- Plugged

OSE District Boundary

Water Right Regulations

- Closure Area

New Mexico State Trust Lands

- Subsurface Estate
- Both Estates

1:18,056

0 0.17 0.35 0.7 mi

0 0.28 0.55 1.1 km

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Online web user

This is an unofficial map from the OSE's online application.

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)			(quarters are smallest to largest)						(NAD83 UTM in meters)				(In feet)	(In feet)	(In feet)
POD Number	**Code**	**Sub basin**	**County**	**Q64**	**Q16**	**Q4**	**Sec**	**Tws**	**Range**	**X**	**Y**	**Map**	**Distance**	**Well Depth**	**Depth Water**	**Water Column**
C 02258		C	ED		SW	NE	26	23S	31E	618055.0	3571853.0 *		632	662		
C 02348		C	ED	NW	SE	SW	26	23S	31E	617647.5	3571068.0		648	700	430	270
C 04790 POD1		CUB	ED	SE	SE	SW	25	23S	31E	619309.4	3570904.8		1099	55		
														Average Depth to Water: **430 fe**		
														Minimum Depth: **430 feet**		
														Maximum Depth: **430 feet**		

Record Count: 3

UTM Filters (in meters):
Easting: 618268
Northing: 3571257
Radius: 002000

*** UTM location was derived from PLSS - see Help**

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

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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 Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	C 02348	NW	SE	SW	26	23S	31E	617647.5	3571068.0	

* UTM location was derived from PLSS - see Help

Driller License:	1654	**Driller Company:**	NOT WORKING FOR HIRE--SIRMAN DRILLING AND CONSTRUC		
Driller Name:	JOHN SIRMAN				
Drill Start Date:	2013-10-31	**Drill Finish Date:**	2013-11-01	**Plug Date:**	
Log File Date:	2013-11-07	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	10
Casing Size:	6.00	**Depth Well:**	700	**Depth Water:**	430

Water Bearing Stratifications:

Top	Bottom	Description
15	125	Sandstone/Gravel/Conglomerate
315	700	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
560	620
680	700

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Water Right Summary

get image list

WR File Number:	C 02348	**Subbasin:**	C	**Cross Reference:**	
Primary Purpose:	STK 72-12-1 LIVESTOCK WATERING				
Primary Status:	PMT Permit				
Total Acres:		**Subfile:**		**Header:**	
Total Diversion:	3.000	**Cause/Case:**			
Owner:	NGL NORTH RANCH LLC A TX LLC	**Owner Class:**	Owner		
Contact:	JIM WINTER				

Documents on File

(acre-feet per annum)

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion	Consumptive
	755955	COWNF	2024-01-31	CHG	PRC	C 02348	T	0.000	0.000	
get images	633178	COWNF	2018-09-17	CHG	PRC	C 02348	T		0.000	
get images	491413	72121	2011-12-14	PMT	LOG	C 02348: SUBSEQUENT STK PERMIT	T		3.000	
	422940	COWNF	2009-02-02	CHG	PRC	C 02348	T		0.000	
	154822	COWNF	1998-09-09	CHG	PRC	C 02348	T	0.000	0.000	
	154817	DCL	1998-09-09	DCL	PRC	C 02348	T	0.000	3.000	

Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map	Other Location Desc
C 02348		Shallow	NW	SE	SW	26	23S	31E	617647.5	3571068.0		

*** UTM location was derived from PLSS - see Help**

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WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE ENGINEER OFFICE
ROSWELL NEW MEXICO

2013 NOV -7 A 11:11

1. GENERAL AND WELL LOCATION

OSE POD NUMBER (WELL NUMBER): C-2348	OSE FILE NUMBER(S): C-2348
WELL OWNER NAME(S): MARK McCloy - McCloy Ranches	PHONE (OPTIONAL): 432-940-4459
WELL OWNER MAILING ADDRESS: P.O. Box 1076 254 Diamond Rd	CITY: Jal STATE: NM ZIP: 88252

WELL LOCATION (FROM GPS): DEGREES MINUTES SECONDS

LATITUDE 32 16 12.91 N

LONGITUDE 103 45 03.61 W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

** DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Hwy 128 to 18 mm 1 mile N 1 mile west on Red Road

2. DRILLING & CASING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1654	John Sirman	Sirman Drilling + Const. LLC

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
10/31/13	11/1/13	700'-0	700'-0	575 ~~600~~

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 430'-0

DRILLING FLUID: ☑ AIR ☐ MUD ☐ ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☑ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	560	10	PVC	Certa-Lok	6	DR-17	Blank
560	620	10	PVC	Certa Lok	6	DR-17	.032 Screen
620	680	10	PVC	Certa lok	6	DR17	Blank
680	700	10	PVC	Certa lok	6	DR-17	.032 screen

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	20	10	3/8 bentonite hole plug	6 bags	gravity
67	700	10	3/8 pea gravel	5 yds	gravity

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	POD NUMBER	TRN NUMBER
C-2348		491413

LOCATION: C 23S.31E.26.3.4.1 LIVESTOCK

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	10	10	Brown sand	☐ Y ☒ N	
10	15	5	White caliche	☐ Y ☒ N	
15	125	110	Brown Sandstone	☒ Y ☐ N	
125	315	190	Red shale	☐ Y ☒ N	
315	700	385	Red sandstone	☒ Y ☐ N	10
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
	700			☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ☐ PUMP ☒ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 7

STATE ENGINEER OFFICE ROSWELL, NM NOV 11 PM 1:11

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

none

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

none

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

John Sierman — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11/3/13 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/08/2012)

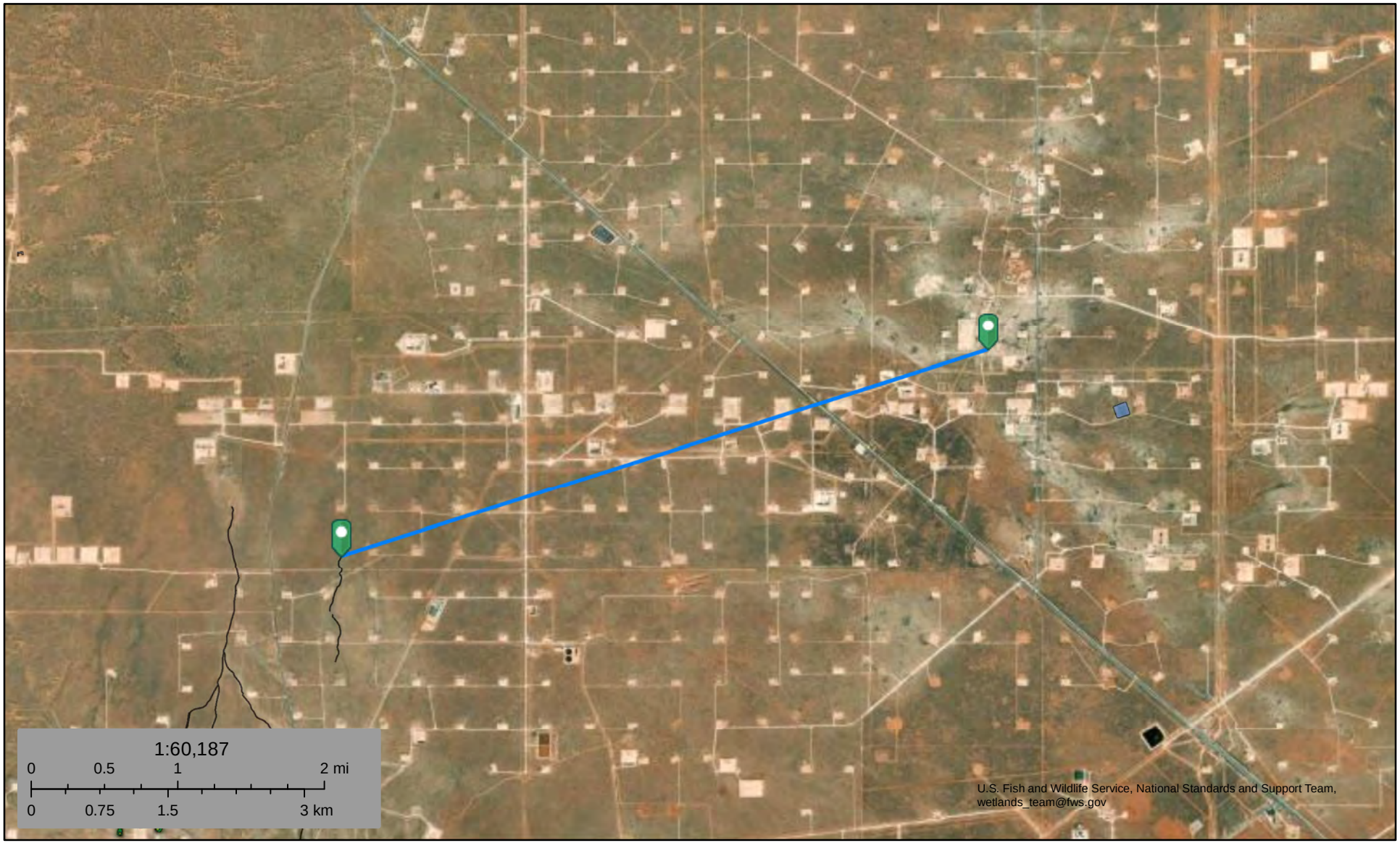
FILE NUMBER	POD NUMBER	TRN NUMBER
C-2348		491413

LOCATION: C 23S.31E.26.3.4.1 Livestock

Received by OCD: 1/21/2026 6:39:41 AM

U.S. Fish and Wildlife Service
National Wetlands Inventory

Intermittent 20,700 feet



April 8, 2025

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.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Released to Imaging: 3/18/2026 3:36:11 PM

Received by OCD: 1/21/2026 6:39:41 AM

U.S. Fish and Wildlife Service
National Wetlands Inventory

Pond 22,743 feet

April 8, 2025

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.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Released to Imaging: 3/18/2026 3:36:11 PM

Received by OCD: 1/21/2026 6:39:41 AM

Todd 36 State #001 Pasture

Proximity Map

Legend

- FEMA Zone A (100-year floodplain)
- High Karst Potential
- Medium Karst Potential
- Nearest FEMA Zone A 30,375 feet (5.75 miles)
- Nearest High Karst 32,458 feet (6.15 miles)
- Nearest Medium Karst 27,152 feet (5.14 miles)
- Nearest Residence 26,477 feet (5 miles)
- Todd 36 State #001 Pasture Release

Todd 36 State #001 Pasture Release

Google Earth

Image © 2025 CNES / Airbus
Image © 2025 Maxar Technologies
Image © 2025 Airbus

Released to Imaging: 3/18/2026 3:36:11 PM

N

4 mi

Active & Inactive Points of Diversion

(with Ownership Information)

		(acre ft per annum)				(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)			(meters)
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q64	q16	q4	Sec	Tws	Range	X	Y	Map	Distance
C 02258	C	PRO	0.000	DEVON ENERGY CORP. (NEVADA)	ED	C 02258						SW	NE	26	23S	31E	618055.0	3571853.0 *		632.9
C 02602	C	SAN	0.000	POGO PRODUCING COMPANY	ED	C 02602						NE	NE	35	23S	31E	618471.0	3570650.0 *		640.0
C 02348	C	STK	3.000	NGL NORTH RANCH LLC A TX LLC	ED	C 02348				Shallow	NW	SE	SW	26	23S	31E	617647.5	3571068.0		648.6
C 04790	CUB	MON	0.000	DEVON ENERGY RESOURCES	ED	C 04790 POD1	NA				SE	SE	SW	25	23S	31E	619309.4	3570904.8		1,099.3

Record Count: 4

Filters Applied:

UTM Filters (in meters):
Easting: 618268
Northing: 3571257
Radius: 002000

Sorted By: Distance

*** UTM location was derived from PLSS - see Help**

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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 Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	C 02258		SW	NE	26	23S	31E	618055.0	3571853.0 *	

*** UTM location was derived from PLSS - see Help**

Driller License:	421	**Driller Company:**	GLENN'S WATER WELL SERVICE	
Driller Name:	CORKY GLENN			
Drill Start Date:	1992-09-18	**Drill Finish Date:**	1992-09-18	**Plug Date:**
Log File Date:	1992-09-25	**PCW Rcv Date:**		**Source:**
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**
Casing Size:		**Depth Well:**	662	**Depth Water:**

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Water Right Summary

get image list

WR File Number:	C 02258	**Subbasin:**	C	**Cross Reference:**
Primary Purpose:	PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE			
Primary Status:	PMT Permit			
Total Acres:		**Subfile:**		**Header:**
Total Diversion:	0.000	**Cause/Case:**		
Owner:	DEVON ENERGY CORP.(NEVADA)	**Owner Class:**	Owner	
Contact:	CHARLES W. HORSMAN			

Documents on File

(acre-feet per annum)

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion	Consumptive
get images	469242	72121	1992-05-27	EXP	EXP	C 02258	T		3.000	

Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map	Other Location Desc
C 02258				SW	NE	26	23S	31E	618055.0	3571853.0 *		

*** UTM location was derived from PLSS - see Help**

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

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Received by OCD: 1/21/2026 6:39:41 AM

U.S. Fish and Wildlife Service
National Wetlands Inventory

Wetland 15,747 feet

April 8, 2025

Wetlands

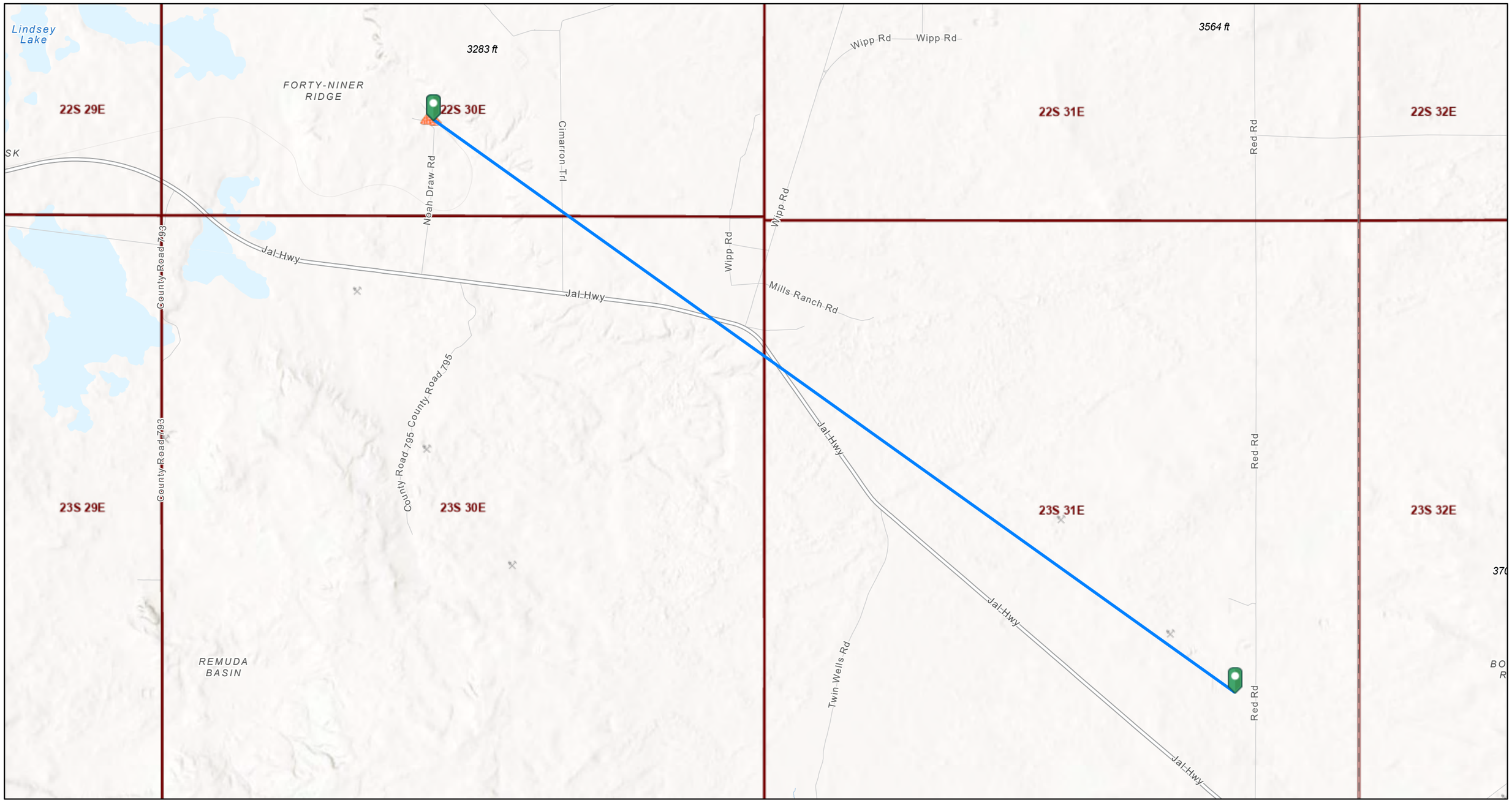
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

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.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Released to Imaging: 3/18/2026 3:36:11 PM

Potash Mine 52,472 feet



4/8/2025, 10:52:53 AM

Registered Mines

- Aggregate, Stone etc.
- Aggregate, Stone etc.
- Potash
- PLSS Townships

1:72,224

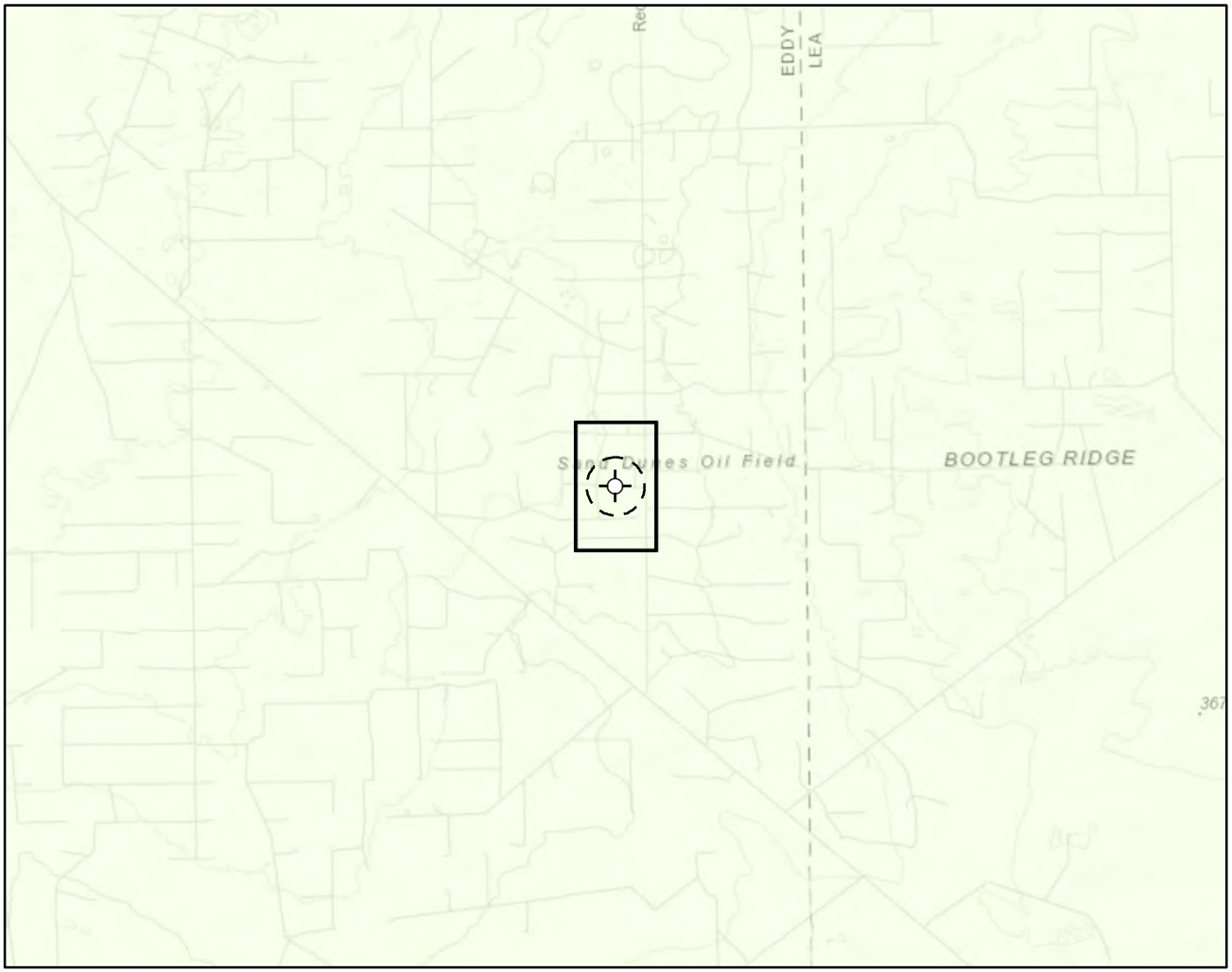
0 0.75 1.5 3 mi

0 1.25 2.5 5 km

Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, BLM

EMNRD MMD GIS Coordinator

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



Overview Map

0 0.25 0.5 1 mi

Detail Map

0 150 300 600 ft.

Karst Potential

- Critical
- High
- Medium
- Low

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

VERTEX

Map Center:
Lat/Long: 32.271810, -103.744000

NAD 1983 UTM Zone 13N
Date: Apr 21/23

N

Karst Potential
Todd 36 State 1 Right of Way

FIGURE:
X

devon

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

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

VERSATILITY. EXPERTISE.

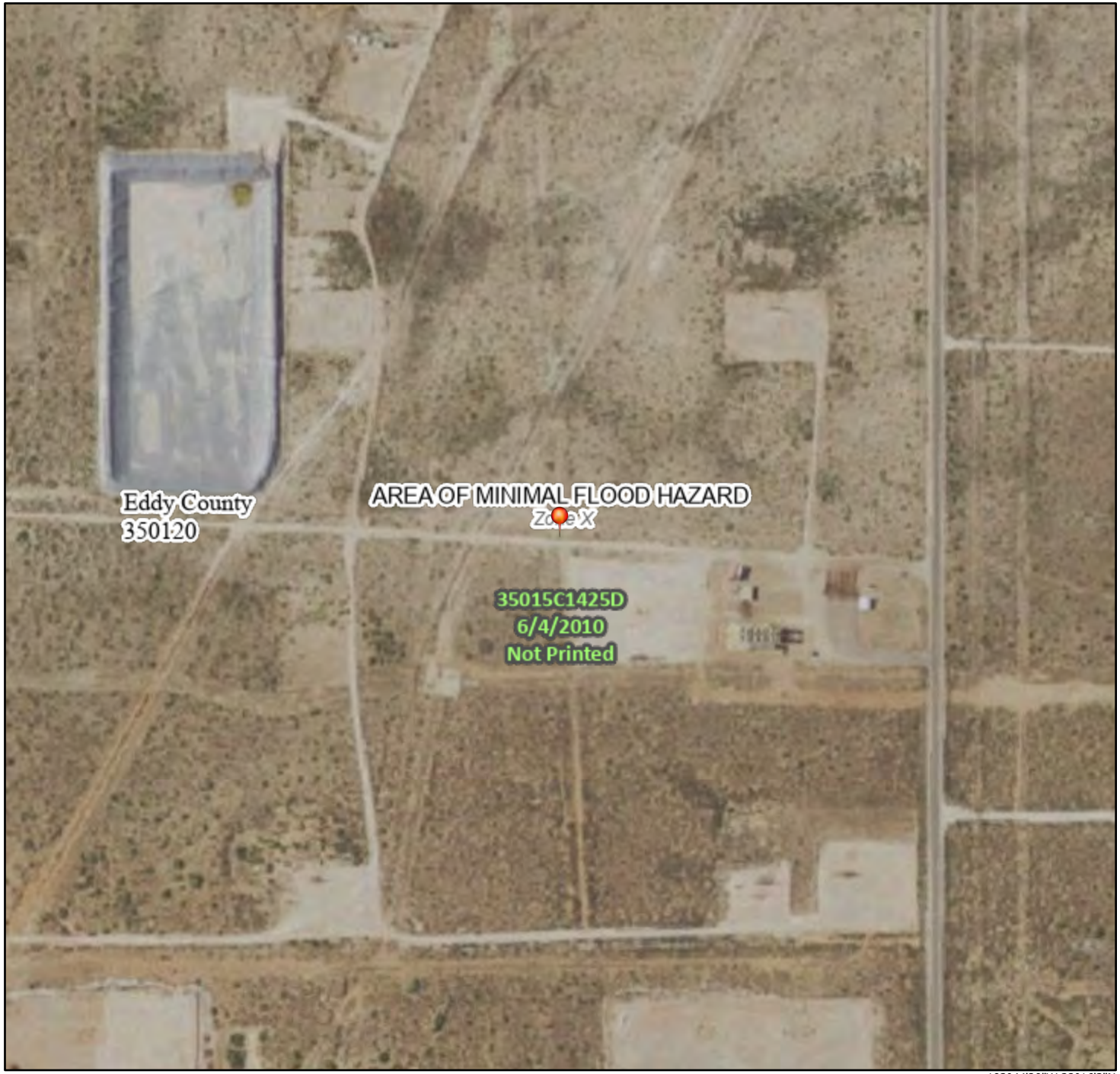
Document Path: \\vtx-s-fs01.corp.internal\shared\vps\04 - Geomatics\1-Projects_US PROJECTS\Devon Energy Corporation\2022\21E-02816 - Todd 36 State 1 Right of Way\Figure X Karst Potential (21E-02816).mxd

Received by OCD: 1/21/2026 6:39:41 AM

National Flood Hazard Layer FIRMette

FEMA

103°44'58"W 32°16'34"N



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

1:6,000

103°44'20"W 32°16'3"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 *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

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

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

OTHER FEATURES
- 20.2 / 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
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

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 4/8/2025 at 4:55 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.

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United States Department of Agriculture

NRCS

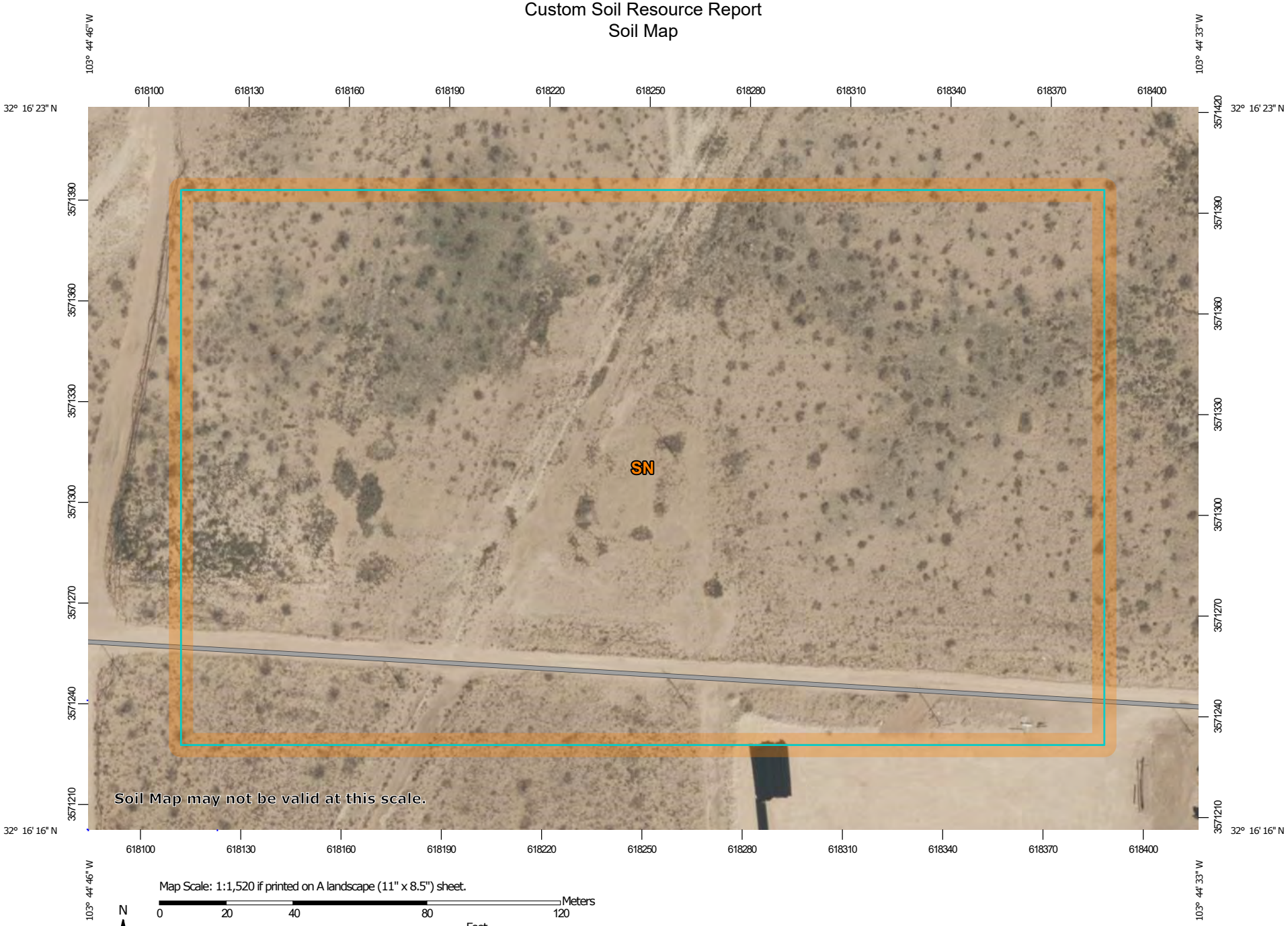
Natural Resources Conservation Service

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 Eddy Area, New Mexico

April 8, 2025

Custom Soil Resource Report
Soil Map



Map Scale: 1:1,520 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 20 40 80 120

Feet
0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

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: Eddy Area, New Mexico
Survey Area Data: Version 20, Sep 3, 2024

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.

Eddy Area, New Mexico

SN—Simona and Wink fine sandy loams, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w5y
Elevation: 3,000 to 4,200 feet
Mean annual precipitation: 10 to 14 inches
Mean annual air temperature: 60 to 64 degrees F
Frost-free period: 200 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 45 percent
Wink and similar soils: 40 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Simona

Setting

Landform: Plains, alluvial fans
Landform position (three-dimensional): Rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 19 inches: fine sandy loam
H2 - 19 to 23 inches: indurated

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very high
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: 15 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 2.5 inches)

Interpretive groups

Land capability classification (irrigated): 4s
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

Description of Wink

Setting

Landform: Swales, depressions
Landform position (three-dimensional): Talf
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 8 inches: fine sandy loam
H2 - 8 to 38 inches: fine sandy loam
H3 - 38 to 60 inches: stratified gravelly variable

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
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: 30 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Low (about 6.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R070BD004NM - Sandy
Hydric soil rating: No

Minor Components

Dune land

Percent of map unit: 15 percent
Hydric soil rating: No

USDA Natural Resources Conservation Service

Ecological site R070BD002NM
Shallow Sandy

Accessed: 04/08/2025

General information

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

Figure 1. Mapped extent

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

Associated sites

R070BD004NM	**Sandy** Sandy sites often occur in association or in a complex with Shallow Sandy Sites.

Similar sites

R070BD004NM	**Sandy** Sandy ecological sites are similar to Shallow Sandy sites in species composition and Transition pathways.

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site occures on plains, alluvial fans, uplands, or fan piedmonts. The parent material consists of mixed loamy alluvium or eolian material derived from igneous and sedimentory bedrock. The petrocalcic layer is at a depth of 10 to 25 inches and undulating.

Slopes are nearly level to undulating, usually less than 9 percent. Elevations range from 2,842 to 4,500 feet.

Table 2. Representative physiographic features

Landforms	(1) Plain (2) Fan piedmont (3) Alluvial fan
Elevation	2,842–4,500 ft
Slope	1–9%
Aspect	Aspect is not a significant factor

Climatic features

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common.

Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity – short duration thunderstorms.
Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes. The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.
The average frost-free season is from 207 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 the site. The vegetation of this site can take advantage of the moisture and the time it falls. Because of the soil profile, little moisture can be stored in the soil for any length of time. Moisture is readily available to the plants from the time it falls. Strong winds from the southwest blow from January through June which rapidly dries out the soil profile during a critical period for plant growth.

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

Table 3. Representative climatic features

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

Influencing water features

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

Soil features

Soils are very shallow to shallow, less than 20 inches in depth. Surface and subsurface textures are gravelly loamy sand, gravelly fine sandy loam or fine sandy loam.

An indurated calache layer occurs at depths of 6 to 25 inches and is at an average of 15 inches from the surface. Underlying material textures are very gravelly fine sandy loam, very gravelly sandy loam, gravelly fine sandy loam. Gravels are calcium carbonate concretions, calcium carbonate content ranges from 30 to 65 percent.

The indurated caliche layer typically holds water up in the profile for short periods within the root zone of plants. These soils will blow if left unprotected by vegetation.

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

Characteristic soils are:
Simona
Jerag

Table 4. Representative soil features

Surface texture	(1) Fine sandy loam (2) Loamy fine sand (3) Gravelly fine sandy loam
Family particle size	(1) Loamy
Drainage class	Well drained to moderately well drained
Permeability class	Moderately slow to moderate

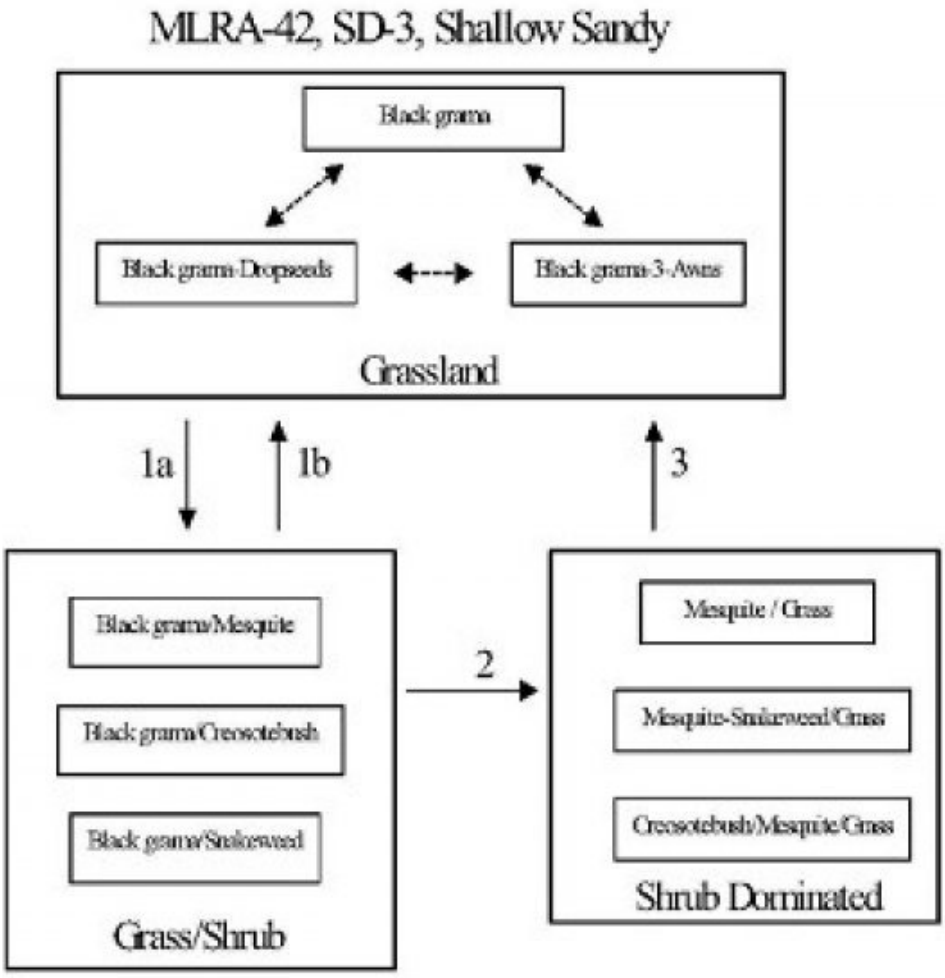
Soil depth	7–24 in
Surface fragment cover <=3"	5–25%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	1–2 in
Calcium carbonate equivalent (0-40in)	5–15%
Electrical conductivity (0-40in)	0–4 mmhos/cm
Sodium adsorption ratio (0-40in)	0
Soil reaction (1:1 water) (0-40in)	7.4–8
Subsurface fragment volume <=3" (Depth not specified)	5–25%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

Overview
The Shallow Sandy site occurs on upland plains, and tops of low ridges and mesas, associated with Sandy, Loamy Sand, and Shallow sites. Coarse to moderately coarse soil surface textures, shallow depth (<20 inches) to an indurated caliche layer (petrocalcic horizon), and an overwhelming dominance by black grama help to distinguish this site. The historic plant community of the Shallow Sandy site is a black grama dominated grassland sparsely dotted with shrubs. Shrubs, especially mesquite and creosotebush can increase or colonize due to the dispersal of shrub seeds by livestock or wildlife. This increase in mesquite and colonization of creosotebush may be enhanced by proximity to areas with existing high shrub densities. Fire suppression, and the loss of grass cover due to overgrazing or drought may facilitate the increase and encroachment of shrubs. Persistent loss of grass cover, competition for resources by shrubs, and periods of climate with increased winter precipitation and dry summers, may initiate the transition to a shrub-dominated state.

State and transition model

Plant Communities and Transitional Pathways (diagram)



1a. Seed dispersal, drought, overgrazing, fire suppression.
1b. Prescribed fire, brush control, prescribed grazing.

2. Persistent loss of grass cover, resource competition, increased winter precipitation.

3. Brush control, range seeding, prescribed grazing.

State 1
Historic Climax Plant Community

Community 1.1
Historic Climax Plant Community

Grassland: This site responds well to management and is resistant to state change, due to the shallow depth to petrocalcic horizon and sandy surface textures. The sandy surface textures allow rapid water infiltration and the petrocalcic horizon helps to keep water perched and available to shallow rooted grasses. Black grama is the dominant species in the historic plant community, averaging 50 to 60 percent of the total production for this site. Bush muhly, blue grama, and dropseeds are present as sub-dominants. Typically, yucca, javalinabush, range ratany, prickly pear, and mesquite are sparsely dotted across the landscape. Leatherweed croton, cutleaf

happlopappus, wooly groundsel, and threadleaf groundsel are common forbs. Continuous heavy grazing or extended periods of drought will cause a loss of grass cover characterized by a decrease in black grama, bush muhly, blue and sideoats grama, plains bristlegrass, and Arizona cottontop. Dropseeds and or threeawns may increase and become sub-dominant to black grama. Continued loss of grass cover in conjunction with dispersal of shrub seeds and fire suppression is believed to cause the transition to a state with increased amounts of shrubs (Grass/Shrub state). Diagnosis: Black grama is the dominant grass species. Grass cover uniformly distributed. Shrubs are a minor component averaging only two to five percent canopy cover. Litter cover is high (40-50 percent of area), and litter movement is limited to smaller size class litter and short distances (<. 5m). Other grasses that could appear on this site would include: six-weeks grama, fluffgrass, false-buffalograss, hairy grama, little bluestem, bristle panicum, cane bluestem, Indian ricegrass, tridens spp., and red lovegrass. Other woody plants include: pricklypear, cholla, fourwing saltbush, catclaw mimosa, winterfat, American tarbush and mesquite. Other forbs include: globemallow, verbena, desert holly, senna, plains blackfoot, trailing fleabane, fiddleneck, deerstongue, wooly Indianwheat, and locoweed.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	474	652	830
Forb	78	107	136
Shrub/Vine	48	66	84
Total	**600**	**825**	**1050**

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	0%
Grass/grasslike foliar cover	30-35%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	40-50%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	15-25%

Figure 5. Plant community growth curve (percent production by month). NM2802, R042XC002NM-Shallow Sandy-HCPC. SD-3 Shallow Sandy - Warm season plant community.

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

State 2
Grass/Shrub

Community 2.1
Grass/Shrub

Grass/Shrub: This state is characterized by the notable presence of shrubs, especially mesquite, broom snakeweed, and/or creosotebush, however grasses remain as the dominant species. Black grama is the dominant

grass species. Threeawns and or dropseeds are sub-dominant. The susceptibility of the Shallow Sandy site to shrub encroachment may be higher when located adjacent to other sites with high densities of mesquite or creosotebush. Retrogression within this site is characterized by decreases in grass cover and increasing densities of shrubs. Diagnosis: Black grama remains as the dominant grass species. Grass cover varies in response to the amount of shrub increase, ranging from uniform to patchy. Shrubs are found at increased densities relative to the grassland state, especially mesquite, creosotebush, or broom snakeweed. Transition to Grass/Shrub (1a) Historically fire may have kept mesquite and other shrubs in check by completely killing some species and disrupting seed production cycles and suppressing the establishment of shrub seedlings in others. Fire suppression combined with seed dispersal by livestock and wildlife is believed to be the factors responsible for the establishment and increase in shrubs.1, 3 Loss of grass cover due to overgrazing, prolonged periods of drought, or their combination, reduces fire fuel loads and increases the susceptibility of the site to shrub establishment. Key indicators of approach to transition: Increase in the relative abundance of dropseeds and threeawns Presence of shrub seedlings Loss of organic matter—evidenced by an increase in physical soil crusts 8 Transition back to Grassland (1b) Brush control is necessary to initiate the transition back to the grassland state. If adequate fuel loads remain, possibly the reintroduction of fire as a management tool will assist in the transition back, however, mixed results have been observed concerning the effects of fire on black grama grasslands.6 Prescribed grazing will help ensure adequate rest following brush control and will assist in the establishment and maintenance of grass cover capable of sustaining fire.

State 3
Shrub Dominated

Community 3.1
Shrub Dominated

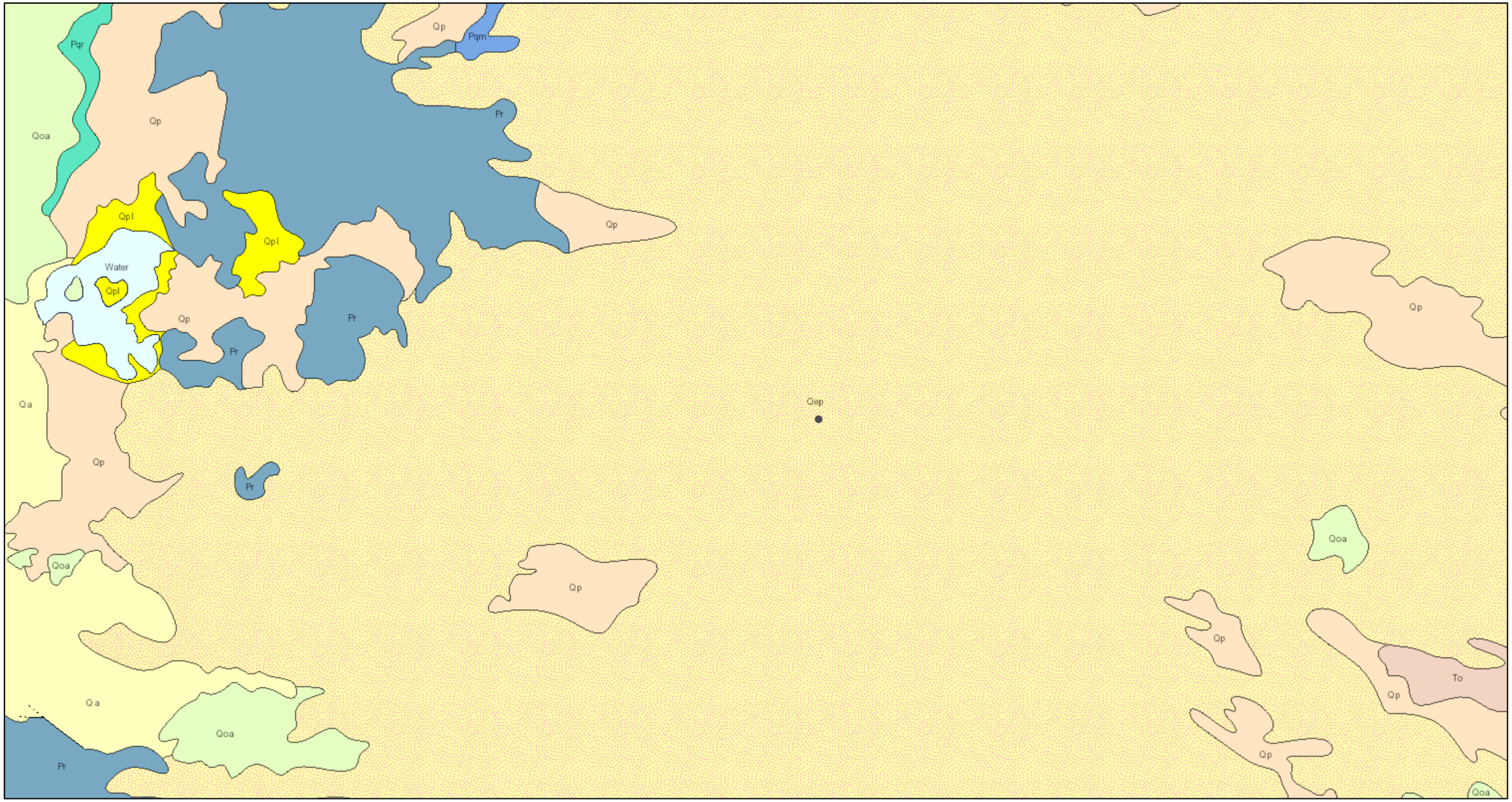
Shrub-Dominated: Across the range of soil types included in the Shallow Sandy site, mesquite is typically the dominant shrub, but it does occur as a co-dominant or sub-dominant species with creosotebush or broom snakeweed. Mesquite tends to dominate when the Shallow Sandy site occurs as part of a complex or in association with Sandy or Loamy Sand sites. Creosotebush tends to dominate on Shallow Sandy sites that occur as part of, or adjacent to Shallow Sites. Broom snakeweed increases in response to heavy grazing, but tends to cycle in and out depending on timing of rainfall. However, once the site is dominated by shrubs and snakeweed becomes well established, it tends to remain as a major component in the shrub dominated state. Diagnosis: Mesquite, creosotebush, or snakeweed cover is high, exceeding that of grasses. Grass cover is patchy with large connected bare areas present. Black grama, threeawns, or dropseeds may be the dominant grass. Evidence of accelerated wind erosion in the form of pedestalling of plants, and soil deposition around shrub bases may be common. Transition to Shrub-Dominated (2) Persistent loss of grass cover and the resulting increased competition between shrubs and remaining grasses for dwindling resources (especially soil moisture) may drive this transition.5 Additionally periods of increased winter precipitation may facilitate periodic episodes of shrub expansion and establishment. 4 Key indicators of approach to transition: Increase in size and frequency of bare patches. Loss of grass cover in shrub interspaces. Increased signs of erosion, evidenced by pedestalling of plants, and soil and litter deposition on leeward side of plants. 7 Transition back to Grassland (3) Brush control is necessary to reduce competition from shrubs and reestablish grasses. Range seeding may be necessary if insufficient grasses remain, The benefits, and costs, will vary depending upon the degree of site degradation, and adequate precipitation following seeding.

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass/Grasslike					
1	**Warm Season**			413–495	
	black grama	BOER4	*Bouteloua eriopoda*	413–495	–
2	**Warm Season**			41–83	
	bush muhly	MUPO2	*Muhlenbergia porteri*	41–83	–
3	**Warm Season**			41–83	

Geology



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Lithologic Units

- Playa—Alluvium and evaporite deposits (Holocene)
- Water—Perenial standing water
- Qa—Alluvium (Holocene to upper Pleistocene)
- Ql—Landslide deposits and colluvium (Holocene to Pleistocene) — Landslide deposits on western flanks of Socorro Mountains not shown for clarity
- Qpl—Lacustrine and playa deposits (Holocene) — Includes associated alluvial and eolian deposits of major lake basins
- Qp—Piedmont alluvial deposits (Holocene to lower Pleistocene)
- Qe—Eolian deposits (Holocene to middle Pleistocene)
- Qeg—Gypsiferous eolian deposits (Holocene to middle Pleistocene)

0 1.5 3 6 mi

0 2.5 5 10 km

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

ArcGIS Web AppBuilder

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

Released to Imaging: 3/18/2026 3:36:11 PM

APPENDIX C – Daily Field and Sampling Reports

Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	10/18/2022
Site Location Name:	Todd 36 State 1	Report Run Date:	10/18/2022 10:03 PM
Client Contact Name:	Wes Matthews	API #:	30-015-20341
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	10/18/2022 9:12 AM
Departed Site	10/18/2022 3:30 PM

Field Notes

12:11 Arrived on site and filled out JSA
Had Halo crew sign JSA

12:12 At 9:45 we Began digging BH22-07 down to 8’ and 10’

BH22-07 cleans up on chlorides at 10’

12:13 At 10:15 I had Halo crew dig out BH22-12 at 0,2,4’ and samples were clean on EC

12:15 At 10:45 I had Halo crew dig out BH22-13 at 0,2,4’

Samples were clean on EC

This Borehole is 10 feet south of BH22-09

15:15 Underground lines are being exposed with Hydro vac

3 additional poly lines were exposed that were unmarked on east side of site within contaminated area

Daily Site Visit Report

15:16 At 2:00 BH22-15 was dug.

All samples were clean on EC

15:21 10 samples were jarred and sent to lab

5 samples were run on Petro flag and were clean

15:21 At 3:30 work concluded for the day

Next Steps & Recommendations

1. Continue soil sampling and delineation
2. Start excavation

Daily Site Visit Report

Site Photos

Viewing Direction: South	**Viewing Direction**: North
BH22-07 is at 10’ depth. Samples are clean at 10’	BH22-14 is at 7’ all samples from 0-7’ were hot on EC Hit refusal at 7’

Daily Site Visit Report

Viewing Direction: North	**Viewing Direction**: North
BH22-12 (0-4') all samples were clean	BH22-13 (0-4') all samples were clean after pushing 10' south away from BH22-09

Viewing Direction: South	**Viewing Direction**: Northwest
3 additional poly lines were located with Hydro Vac that were not marked with flagging	Overview of site facing Northwest

Daily Site Visit Report

Viewing Direction: Northeast
Overview of site facing northeast

Daily Site Visit Report

Daily Site Visit Signature

Inspector: Jacob Reta

Signature:

Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	10/19/2022
Site Location Name:	Todd 36 State 1	Report Run Date:	10/19/2022 10:33 PM
Client Contact Name:	Wes Matthews	API #:	30-015-20341
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	10/19/2022 9:02 AM
Departed Site	10/19/2022 4:50 PM

Field Notes

15:56 Arrived on site at filled out JSA

Had Halo crew sign JSA

15:57 I explained expectations for the day on digging potholes with Backhoe

I set up field screening supplies

15:59 At 9:30 Halo Crew began digging pothole BH22-16 at 0-4’

Sample was field screened and came out clean on EC

16:01 BH22-17 at 0 and 2’ was clean on EC and at 4’ it was hit on EC

I stepped of 10 feet to the west and dug BH22-18.

BH22-18 was clean on EC at 0-4’

16:02 BH22-19 is clean on EC at 0-4’

Daily Site Visit Report

16:04 BH22-20 was on on EC. I stepped out 35 feet because of underground lines at the North end of the site and dug BH22-21 at 0-4’

BH22-21 came out clean on EC at 0-4’

16:05 All 4’ samples (except BH22-20) were run on Petroflag and came back clean on TPH

16:05 A Total of 15 samples were jarred and sent to Lab

16:06 Work concluded for Halo crew at 13:20

Next Steps & Recommendations

1. Work plan for excavation
2. Excavation of site

Daily Site Visit Report

Site Photos

Viewing Direction: West	**Viewing Direction**: South
BH22-16 facing west	All data points are up to date on collector

Viewing Direction: South	**Viewing Direction**: South
BH22-16 facing south	BH22-18 is stepped out from BH2217 by 10’ Facing south

Daily Site Visit Report

Viewing Direction: South	**Viewing Direction**: Northeast
BH22-19 facing south	Overview of site facing southeast
Viewing Direction: Northwest	**Viewing Direction**: West
Overview of site facing northwest	Had Halo crew flag off pothole closest to lease road

Daily Site Visit Report

Viewing Direction: Northwest	**Viewing Direction**: Northwest
BH22-20 Samples were hot on EC	BH22-21 is stepped out 35’ north from BH22-20 due to underground lines

Daily Site Visit Report

Daily Site Visit Signature

Inspector: Jacob Reta

Signature:

Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	1/14/2023
Site Location Name:	Todd 36 State 1	Report Run Date:	1/14/2023 8:03 PM
Client Contact Name:	Wes Matthews	API #:	30-015-20341
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	1/14/2023 8:55 AM
Departed Site	1/14/2023 1:00 PM

Field Notes

11:55 Arrived on site and filled out JSA

11:56 Today's focus is to continue confirmation sampling

11:57 At 9:45 I began grabbing confirmation samples

Samples collected are:
BES23-37 thru BES23-54

11:58 All samples were field screened on EC meter

All samples are clean on Chlorides per the 20,000 ppm criteria

11:59 No TPH was tested

Daily Site Visit Report

12:46 At 12:30
BES23-15 was recollected

Sample was field screened on EC for chlorides

Sample is clean per the 20,000 ppm criteria

Sample is field screened on Petroflag

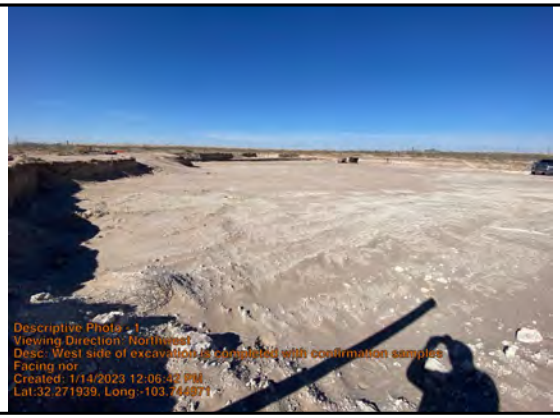
Sample is clean on TPH

Next Steps & Recommendations

1. Finish confirmation sampling
2. Have electric pole relocated
3. Closure

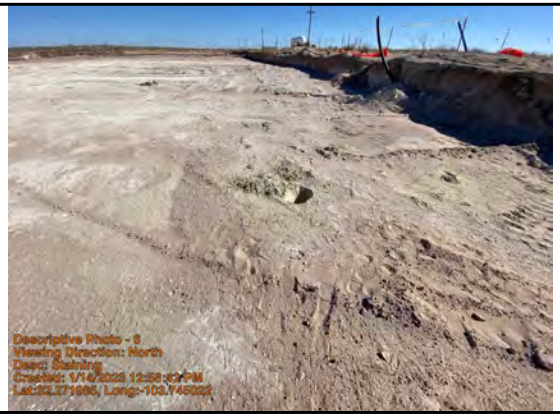
Daily Site Visit Report

Site Photos

Viewing Direction: Northwest	**Viewing Direction**: North
	
West side of excavation is completed with confirmation samples Facing northwest	Area for confirmation samples BES23-37 thru 54

Daily Site Visit Report

Viewing Direction: West	**Viewing Direction**: East
Area for recollected sample BES23-15 Facing west	Overview of west side of site Facing east

Viewing Direction: North	**Viewing Direction**: East
	
West side of site facing north	Discoloration of soil Sample was clean on Chlorides

Daily Site Visit Report

Daily Site Visit Signature

Inspector: Jacob Reta

Signature:

Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	1/19/2023
Site Location Name:	Todd 36 State 1	Report Run Date:	1/20/2023 12:05 AM
Client Contact Name:	Wes Matthews	API #:	30-015-20341
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	1/19/2023 8:43 AM
Departed Site	1/19/2023 4:45 PM

Field Notes

16:02 Arrived on site and filled out JSA

16:02 Today's focus is to continue collecting confirmation samples

16:07 23 Base Excavation Samples were collected

All samples were field screened on EC

All samples were clean on EC

6 samples were field screened on Petroflag

All samples were clean for TPH

16:07 All samples are jarred and will be sent to lab

16:12 Sampling, field screening and jarring concluded at 4:12 pm

Daily Site Visit Report

Next Steps & Recommendations

1. Continue confirmation sampling
2. Have electric pole relocated and area excavated
3. Closure

Daily Site Visit Report

Site Photos

Viewing Direction: North

Area that samples were collected

Facing North

Viewing Direction: Northeast

Area that needs to be sampled
Facing Northeast

Viewing Direction: Northwest

Overview of site facing northwest

Daily Site Visit Report

Viewing Direction: West
Overview of north half of site facing west

Viewing Direction: South
Area where sampling was focused Facing south

Viewing Direction: Northwest
Western half of site is completed with confirmation sampling Facing Northwest

Daily Site Visit Report

Daily Site Visit Report

Daily Site Visit Signature

Inspector: Jacob Reta

Signature:

Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	1/21/2023
Site Location Name:	Todd 36 State 1	Report Run Date:	1/21/2023 10:44 PM
Client Contact Name:	Wes Matthews	API #:	30-015-20341
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	1/21/2023 9:50 AM
Departed Site	1/21/2023 3:45 PM

Field Notes

15:07 Arrived on site and filled out JSA

15:07 Today's focus is to continue confirmation sampling

15:08 At 10:00 I began collecting confirmation samples

Samples included:
BES23-95 through BES23-111

15:09 All samples were field screen on EC meter

All samples were clean on Chlorides

15:10 3 samples were field screened for TPH

Sample field screened:
BES23-99, 100, 101

All 3 samples were clean on TPH

Daily Site Visit Report

15:10 All samples are jarred and will be sent to lab

Next Steps & Recommendations

1. Continue confirmation sampling
2. Have electric pole relocated and the area excavated
3. Closure

Daily Site Visit Report

Site Photos

Viewing Direction: North

Area where samples were collected today

Facing North

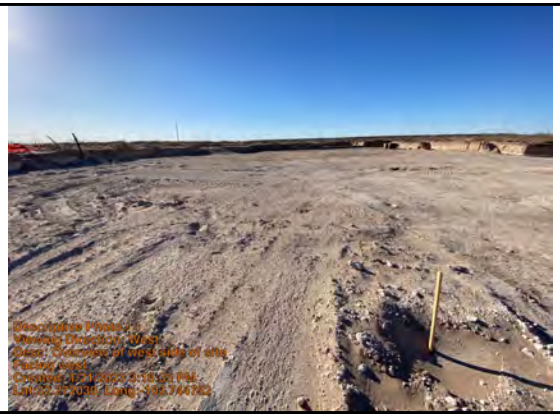
Viewing Direction: North

Overview of east side of site
Facing north

Viewing Direction: Northwest

Overview of center of site facing northwest

Viewing Direction: West



Overview of west side of site
Facing west

Daily Site Visit Report

Viewing Direction: East
Overview of site facing east

Daily Site Visit Report

Daily Site Visit Signature

Inspector: Jacob Reta

Signature:

Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	1/27/2023
Site Location Name:	Todd 36 State 1	Report Run Date:	1/27/2023 10:20 PM
Client Contact Name:	Wes Matthews	API #:	30-015-20341
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	1/27/2023 9:16 AM
Departed Site	1/27/2023 3:45 PM

Field Notes

9:44 Arrived on site and filled out JSA

9:44 Once JSA was filled out I walked the site to make sure no line were busted from cold temperatures overnight

9:45 At 10:00 I began grabbing Base Confirmation Samples at 4’ depth

14:35 Samples collected are from BES23-155 through BES23-168 at 4’ depth

All samples were field screen on EC meter

All samples are clean on Chlorides

14:36 4 samples were field screened on Petroflag for TPH

Samples included are:
BES23-155, 156, 159 and 161

All samples were clean on TPH

14:37 All samples collected today are jarred and sent to lab

Daily Site Visit Report

Next Steps & Recommendations

1. Continue confirmation sampling
2. Have electric pole relocated and area excavated

Daily Site Visit Report

Site Photos

Viewing Direction: North	**Viewing Direction**: South
Northern half of area samples today Facing north	Southern half of area sampled today Facing south

Daily Site Visit Report

Viewing Direction: Southwest

Electric pole needs to be relocated and area excavated

Facing Southwest

Viewing Direction: Southwest

Area completed with confirmation samples

Facing Southwest

Viewing Direction: Southeast

Area that still needs to be sampled

Facing Southeast

Daily Site Visit Report

Daily Site Visit Report

Daily Site Visit Signature

Inspector: Jacob Reta

Signature:

Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	1/30/2023
Site Location Name:	Todd 36 State 1	Report Run Date:	1/30/2023 10:43 PM
Client Contact Name:	Wes Matthews	API #:	30-015-20341
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	1/30/2023 10:00 AM
Departed Site	1/30/2023 4:00 PM

Field Notes

15:04 Arrived on site and filled out JSA

15:04 Today's focus is to continue confirmation sampling at 4' depth

15:05 At 10:45 I began grabbing confirmation Base Excavated Samples at a 4' depth

Samples included:
BES23-169 through BES23-181

15:06 All samples collected were field screened on EC Meter

All samples are clean on Chlorides

15:07 3 samples were field screened on Petroflag

Samples included:
BES23-177, 178, and 181

All 3 samples are clean on TPH

Daily Site Visit Report

15:07 All samples collected are jarred and will be sent to lab

Next Steps & Recommendations

1. Continue confirmation sampling
2. Have electric pole relocated and area excavated

Daily Site Visit Report

Site Photos

Viewing Direction: North	**Viewing Direction**: South
Northern Area of focus for today's Confirmation Sampling Facing North	Southern area of focus for today's confirmation sampling Facing south

Daily Site Visit Report

Viewing Direction: Southeast
Area that still needs to be sampled Facing southeast

Viewing Direction: Northeast
Eastern edge that still needs to be sampled Facing northeast

Viewing Direction: North
Electric pole needs to be relocated and area excavated Facing North

Daily Site Visit Report

Daily Site Visit Signature

Inspector: Jacob Reta

Signature:

Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	2/1/2023
Site Location Name:	Todd 36 State 1	Report Run Date:	2/2/2023 12:04 AM
Client Contact Name:	Wes Matthews	API #:	30-015-20341
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	2/1/2023 9:48 AM
Departed Site	2/1/2023 3:36 PM

Field Notes

14:57 Arrived on site, had safety meeting

15:30 Gathered base samples 206 through 214 which all tested clean for chlorides

15:30 Devon representatives stopped by to chat about progress of job. Issues of site were addressed.

14:59 Gathered wall samples 1 through 10 which all tested clean for chlorides

14:59 All samples were jarred to be sent to lab

Next Steps & Recommendations

1 Continue confirmation sampling

2 Have issued addressed on site

3 Backfill enclosure

Daily Site Visit Report

Site Photos

Viewing Direction: North	**Viewing Direction**: West
Base sample area	Wall sample area
Viewing Direction: West	**Viewing Direction**: North
Wall sample area	Wall sample area

Daily Site Visit Report

Viewing Direction: Northeast
Wall sample area

Daily Site Visit Report

Daily Site Visit Signature

Inspector: Zachery Englebert

Signature:

Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	2/2/2023
Site Location Name:	Todd 36 State 1	Report Run Date:	2/2/2023 10:23 PM
Client Contact Name:	Wes Matthews	API #:	30-015-20341
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	2/2/2023 9:57 AM
Departed Site	2/2/2023 3:45 PM

Field Notes

10:22 Arrived on site and filled out JSA

10:23 Walked around the site to ensure exposed lines were not effected by freezing

14:54 At 10:30 I began grabbing Wall Excavated Samples at 0-4’ in depth

Samples included WES23-11 through WES23-15

14:55 All wall samples were field screened on EC meter

All wall samples are clean on Chlorides

Daily Site Visit Report

14:56 At 12:30 I began grabbing remaining Base Excavated Samples at 4’ depth

Samples included
BES23-190 through BES23-192

All samples were field screened on EC meter

All samples are clean on Chlorides

14:57 4 samples were field screened on Petroflag unit

Samples included
WES23-12
BES23-190, 191, and 192

All 4 samples are clean on TPH

14:58 All samples collected today are jarred and sent to lab

Next Steps & Recommendations

1 Backfill

2 Closure

Daily Site Visit Report

Site Photos

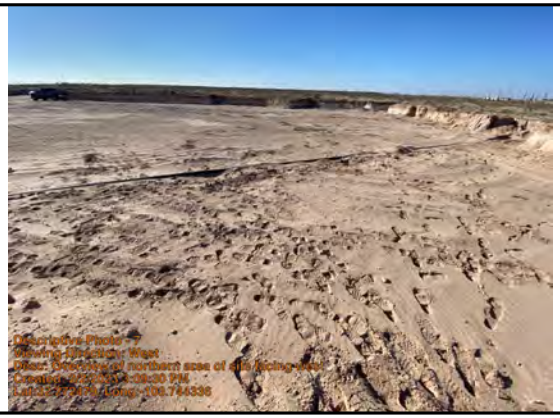
Viewing Direction: North	**Viewing Direction**: Southeast
Overview of area where wall samples were collected Facing North	Overview of area where wall samples were collected at 0-4’ Facing southeast

Daily Site Visit Report

Viewing Direction: South	**Viewing Direction**: North
Overview of area where wall samples were collected Facing south	Overview of area where Base Excavated Samples were collected Facing South
Viewing Direction: South	**Viewing Direction**: Northeast
Overview of southeast area of site	Over of Northeast area of site Facing Northeast

Daily Site Visit Report

Viewing Direction: West

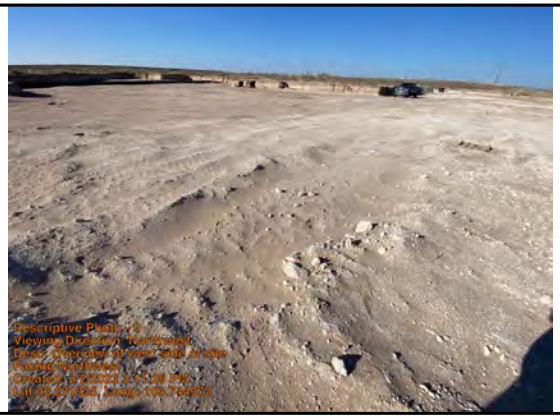


Overview of northern area of site facing west

Viewing Direction: Southwest

Overview of center of site
Facing Southwest

Viewing Direction: Northwest



Overview of west side of site
Facing Northwest

Daily Site Visit Report

Daily Site Visit Signature

Inspector: Jacob Reta

Signature:

Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	5/24/2023
Site Location Name:	Todd 36 State 1	Report Run Date:	5/24/2023 8:25 PM
Client Contact Name:	Wes Matthews	API #:	30-015-20341
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	5/24/2023 9:07 AM
Departed Site	5/24/2023 2:24 PM

Field Notes

9:12 Arrived on site and filled out safety paperwork. On site to seed location via broadcast.

14:24 Seeded location using BLM seed 1 & 2 @ 20lbs per acre. Seeded all areas of the location including north and west extents of the site. Several plastic pipes, metal pipes, and wooden skids were found left at location.

Next Steps & Recommendations

1

Daily Site Visit Report

Site Photos

Viewing Direction: North	**Viewing Direction**: East
Seed Tag	Overview of location

Viewing Direction: North	**Viewing Direction**: Southeast
West portions of location	West extent of location

Daily Site Visit Report

Viewing Direction: Southeast	**Viewing Direction**: East
Northwest corner of location	Northern extent of location
Viewing Direction: Southwest	**Viewing Direction**: South
Northeast corner of location	East portions of location

Daily Site Visit Report

Viewing Direction: West	**Viewing Direction**: East
North extent of location	Trash found at location
Viewing Direction: Southeast	**Viewing Direction**: Northwest
Plastic liner found at location	Southeast corner of the site

Daily Site Visit Report

Viewing Direction: Northwest	**Viewing Direction**: West
Plastic pipe, T-posts, and wood skids left at location	Southern edge of site
Viewing Direction: North	**Viewing Direction**: Northeast
Eastern edge of site	Overview of location

Daily Site Visit Report

Viewing Direction: Northwest	**Viewing Direction**: East
Overview of location	Southern portions of site
Viewing Direction: West	**Viewing Direction**: Northeast
Southern portions of site	Southwest corner of location

Daily Site Visit Report

Daily Site Visit Signature

Inspector: Fernando Rodriguez

Signature:

Daily Site Visit Report

Client:	Devon Energy Corporation	Incident ID #:	
Site Location Name:	Todd 36 State 1	API #:	30-015-20341
Inspection Date:	5/2/2025		

Summary of Times	
Arrived at Site	5/2/2025 9:15 AM
Departed Site	5/2/2025 12:26 PM

Daily Site Visit Report

Site Sketch

Site Sketch

Daily Site Visit Report

Field Notes

9:37 Completed saftey paperwork upon arrival

9:37 Collected a sample from the backfilled excavation and the background

11:27 PH, Phosphorus, Potassium, and nitrogen quality tests were run on the soil

11:28 Small amounts of suspended soil on the tests can effect the hue of the color in the Phosphorus, Potassium, and nitrogen quality tests. Turning the image to black and white was often used to emphasize saturation and identify the concentration

11:57 Phosphorus, potassium, and phosphorus tests for the backfill was run once in the tubes that came in the kit to compare to the chart and once alternative vials to compare to the background sample more accurately

Next Steps & Recommendations

1

Daily Site Visit Report

Site Photos

Viewing Direction: Northwest	**Viewing Direction**: South
Backfill collected from the center of the excavation area	Background sample collected north of backfilled area

Daily Site Visit Report

Viewing Direction: North	**Viewing Direction**: North
A mixture of 20g of soil into 100g of distilled water is put into a beaker for both the background and backfill sample. The mixture was then swirled for 60 seconds and left to sit. After approximately 30 minutes the soil settled to the bottom of the beaker	The tubes were used to measure 1part soil and 3 parts water for the PH test

Daily Site Visit Report

Viewing Direction: North	**Viewing Direction**: North
Green capsule added into PH tests and wait for 1 minute	Results of PH test indicate a PH >7.5 *the background sample is in the jar with the black lid and acts as a control for the backfill sample in the green lid container.

Daily Site Visit Report

Viewing Direction: North	**Viewing Direction**: North
The liquid from the beakers was extracted and filled up to the 4th line for both samples. Pills for the potassium, phosphorus, and nitrogen were added to the water in separate tests. The tests were shaken for one minute, left to sit for 8 then reshaken and left to sit for the final 2	Nitrogen test indicates a very low nitrogen content in both samples *the background sample is in the jar with the black lid and acts as a control for the backfill sample in the purple lid container.

Daily Site Visit Report

Viewing Direction: North	**Viewing Direction**: North
Phosphorus tests indicates a high phosphorus content in the background sample and a medium phosphorus content in the backfill sample *the background sample is in the jar with the black lid and acts as a control for the backfill sample in the blue lid container.	Potassium tests indicates a high potassium content in the background sample and a medium potassium content in the backfill sample *the background sample is in the jar with the black lid and acts as a control for the backfill sample in the orange lid container.

Daily Site Visit Report

Viewing Direction: North	**Viewing Direction**: North
Tests indicate high phosphorus, very low nitrogen, and medium potassium	Same container container comparisons indicate there’s a higher phosphorus content in the background sample than the backfill sample

Daily Site Visit Report

Viewing Direction: North	**Viewing Direction**: North
Same container container comparisons indicate there's a higher potassium content in the background sample than the backfill sample	Same container container comparisons indicate there's a higher nitrogen content in the background sample than the backfill sample

Daily Site Visit Report

Viewing Direction: North	**Viewing Direction**: Northwest
Black and white photo with the background on the left and the backfill on the right included to emphasize saturation contrast between each sample	Overview of site. Some regrowing has occurred, but it is limited

Daily Site Visit Report

Daily Site Visit Signature

Inspector: Katrina Taylor

Signature:

Signature

APPENDIX D – Notifications

Gmail Dhugal Hanton <vertexresourcegroupusa@gmail.com>

48 Hour notice confirmatory sampling

13 messages

Dhugal Hanton <vertexresourcegroupusa@gmail.com> Thu, Dec 8, 2022 at 2:54 PM
To: "Enviro, OCD, EMNRD" <OCD.Enviro@state.nm.us>, spills@slo.state.nm.us

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted for the following releases:

nAB1703948537, 2RP-4105, DOR: 1/28/2017

nAB1534452923, 2RP-3438, DOR: 12/03/2015

nAB15323346, 2RP-3405, DOR: 11/19/2015

Site Name: Todd 36 State 1

This work will be completed on behalf of Harvard Petroleum Company, LLC and Devon Energy, LLC.

On Monday, December 12, 2022, at approximately 8:00 a.m.,Vertex staff will be on site to conduct confirmatory sampling through December 16, 2022 . I can be reached at 346-814-1413. If you need directions to the site, please do not hesitate to contact me. If you have any questions or concerns regarding this notification, please let me know.

Thank you,

Kent Stallings P.G.
Project Manager

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

P 575.725.5001
C 346.814.1413
F

Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov> Thu, Dec 8, 2022 at 3:26 PM
To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>
Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Billings, Bradford, EMNRD" <Bradford.Billings@emnrd.nm.gov>

Please be aware that notification requirements are **two business days**, per rule. Please proceed on your schedule. Also, please include this, and all correspondence, in the closure report to insure inclusion in the project file.

Jocelyn Harimon ● Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

1220 South St. Francis Drive | Santa Fe, NM 87505

(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http:// **www.emnrd.nm.gov**

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>
Sent: Thursday, December 8, 2022 2:54 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; spills@slo.state.nm.us
Subject: [EXTERNAL] 48 Hour notice confirmatory sampling

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

[Quoted text hidden]

Dhugal Hanton <vertexresourcegroupusa@gmail.com> Tue, Jan 10, 2023 at 10:16 AM
To: "Enviro, OCD, EMNRD" <OCD.Enviro@emnrd.nm.gov>
Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Billings, Bradford, EMNRD" <Bradford.Billings@emnrd.nm.gov>

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted for the following releases:

nAB1703948537, 2RP-4105, DOR: 1/28/2017

nAB1534452923, 2RP-3438, DOR: 12/03/2015

nAB15323346, 2RP-3405, DOR: 11/19/2015

Site Name: Todd 36 State 1

This work will be completed on behalf of Harvard Petroleum Company, LLC and Devon Energy, LLC.

On Friday, January 13, 2023, at approximately 8:00 a.m.,Vertex staff will be on site to conduct confirmatory sampling through January 23, 2023. I can be reached at 346-814-1413. If you need directions to the site, please do not hesitate to contact me. If you have any questions or concerns regarding this notification, please let me know.

Thank you,

Kent Stallings P.G.
Project Manager

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

P 575.725.5001
C 346.814.1413
F

[Quoted text hidden]

---

postmaster@state.nm.us <postmaster@state.nm.us> Tue, Jan 10, 2023 at 10:17 AM
To: vertexresourcegroupusa@gmail.com

Office 365

Your message to Bradford.Billings@emnrd.nm.gov couldn't be delivered.

Bradford Billings wasn't found at emnrd.nm.gov.

=?us-ascii?Q?pR5isUPXxpNueMOu1r8u33sbKEEwttIZNUL9Ln1eMRBnpAt1mUWYjmcIEobe?=
=?us-ascii?Q?3XrzwCG69gJfQ/Iwsb9k1iti/6BpQAv4tKcGcNhlRUwudisW7swt8YKQkBbs?=
=?us-ascii?Q?dFiGt25KJwetvlXtuvk2WWRFomDeuW9rPbRuUZE9kR6Aws8ngikuHcBCKc7u?=
=?us-ascii?Q?Wz6mRUJlbuelIZkgZncV7VcTi2KncWqM9bkAgwhF/z66Z+oN+OMFT0Lg4wkf?=
=?us-ascii?Q?VyZ18YurMvnLXOnWdRuxt9twUItdYP3rpexbKktXQy02ZHCDheGNs9wTNS5a?=
=?us-ascii?Q?dB0b11v0K/wgkkbs+DC7toqsqeMB4VsXbxbGw9E2X4UkovybuojCufnUDBtc?=
=?us-ascii?Q?Bf1veOFayxz7mt9CkrPaRgEYzlgFRA8RvTjIzEqMjVx2xH7jhGaELmp+n8Yi?=
=?us-ascii?Q?ZSXty95AZYaiPiVHLULgbvKKoJdLZq2nVHA=3D?=
X-Forefront-Antispam-Report:
CIP:209.85.167.47;CTRY:US;LANG:en;SCL:1;SRV:;IPV:NLI;SFV:NSPM;H:mail-lf1-f47.google.com;PTR:mail-lf1-f47.google.com;CAT:NONE;SFS:(13230022)(4636009)(451199015)(6916009)(8676002)(42186006)(40140700001)(4326008)(15650500001)(76482006)(54906003)(356005)(7596003)(5660300002)(1096003)(7636003)(166002)(450100002)(966005)(83380400001)(33964004)(6666004)(53546011)(55446002)(82202003)(336012)(73392003)(26005)(86362001)(376185003);DIR:INB;
X-MS-Exchange-CrossTenant-OriginalArrivalTime: 10 Jan 2023 17:17:00.7210 (UTC)
X-MS-Exchange-CrossTenant-Network-Message-Id: a74f00d4-7b34-4758-b5a3-08daf32e7c64
X-MS-Exchange-CrossTenant-Id: 04aa6bf4-d436-426f-bfa4-04b7a70e60ff
X-MS-Exchange-CrossTenant-AuthSource:
DM3GCC02FT036.eop-gcc02.prod.protection.outlook.com
X-MS-Exchange-CrossTenant-AuthAs: Anonymous
X-MS-Exchange-CrossTenant-FromEntityHeader: Internet
X-MS-Exchange-Transport-CrossTenantHeadersStamped: SJ0PR09MB10260

Final-Recipient: rfc822;Bradford.Billings@emnrd.nm.gov
Action: failed
Status: 5.1.10
Diagnostic-Code: smtp;550 5.1.10 RESOLVER.ADR.RecipientNotFound; Recipient Bradford.Billings@emnrd.nm.gov not found by SMTP address lookup
X-Display-Name: Billings, Bradford, EMNRD

---------- Forwarded message ----------
From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>
To: "Enviro, OCD, EMNRD" <OCD.Enviro@emnrd.nm.gov>
Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Billings, Bradford, EMNRD" <Bradford.Billings@emnrd.nm.gov>
Bcc:
Date: Tue, 10 Jan 2023 10:16:47 -0700
Subject: Re: [EXTERNAL] 48 Hour notice confirmatory sampling

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted for the following releases:

nAB1703948537, 2RP-4105, DOR: 1/28/2017

nAB1534452923, 2RP-3438, DOR: 12/03/2015

nAB15323346, 2RP-3405, DOR: 11/19/2015

Site Name: Todd 36 State 1

This work will be completed on behalf of Harvard Petroleum Company, LLC and Devon Energy, LLC.

On Friday, January 13, 2023, at approximately 8:00 a.m.,Vertex staff will be on site to conduct confirmatory sampling through January 23, 2023. I can be reached at 346-814-1413. If you need directions to the site, please do not hesitate to contact me. If you have any questions or concerns regarding this notification, please let me know.

Thank you,

Kent Stallings P.G.
Project Manager

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

P 575.725.5001
C 346.814.1413
F

On Thu, Dec 8, 2022 at 3:26 PM Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov> wrote:

Please be aware that notification requirements are **two business days**, per rule. Please proceed on your schedule. Also, please include this, and all correspondence, in the closure report to insure inclusion in the project file.

Jocelyn Harimon ● Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

1220 South St. Francis Drive | Santa Fe, NM 87505

(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http:// **www.emnrd.nm.gov**

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>
Sent: Thursday, December 8, 2022 2:54 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; spills@slo.state.nm.us
Subject: [EXTERNAL] 48 Hour notice confirmatory sampling

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted for the following releases:

nAB1703948537, 2RP-4105, DOR: 1/28/2017

nAB1534452923, 2RP-3438, DOR: 12/03/2015

nAB15323346, 2RP-3405, DOR: 11/19/2015

Site Name: Todd 36 State 1

This work will be completed on behalf of Harvard Petroleum Company, LLC and Devon Energy, LLC.

On Monday, December 12, 2022, at approximately 8:00 a.m.,Vertex staff will be on site to conduct confirmatory sampling through December 16, 2022 . I can be reached at 346-814-1413. If you need directions to the site, please do not hesitate to contact me. If you have any questions or concerns regarding this notification, please let me know.

Thank you,

Kent Stallings P.G.
Project Manager

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

P 575.725.5001
C 346.814.1413
F

Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov> Tue, Jan 10, 2023 at 10:50 AM
To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>
Cc: "Hamlet, Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov>, "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>

Dhugal,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

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Dhugal Hanton <vertexresourcegroupusa@gmail.com> Mon, Jan 23, 2023 at 7:05 AM
To: "Enviro, OCD, EMNRD" <OCD.Enviro@emnrd.nm.gov>
Cc: "Hamlet, Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov>

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted for the following releases:

nAB1703948537, 2RP-4105, DOR: 1/28/2017

nAB1534452923, 2RP-3438, DOR: 12/03/2015

nAB15323346, 2RP-3405, DOR: 11/19/2015

Site Name: Todd 36 State 1

This work will be completed on behalf of Harvard Petroleum Company, LLC and Devon Energy, LLC.

On Wednesday, January 25, 2023, at approximately 8:00 a.m.,Vertex staff will be on site to continue to conduct confirmatory sampling through January 31, 2023. I can be reached at 346-814-1413. If you need directions to the site, please do not hesitate to contact me. If you have any questions or concerns regarding this notification, please let me know.

Thank you,

Kent Stallings P.G.
Project Manager

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

P 575.725.5001
C 346.814.1413
F

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Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov> Mon, Jan 23, 2023 at 8:08 AM
To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>
Cc: "Hamlet, Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov>, "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>

Kent

[Quoted text hidden]

Dhugal Hanton <vertexresourcegroupusa@gmail.com> Mon, Feb 13, 2023 at 8:10 AM
To: "Enviro, OCD, EMNRD" <OCD.Enviro@emnrd.nm.gov>

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted for the following releases:

nAB1703948537, 2RP-4105, DOR: 1/28/2017

nAB1534452923, 2RP-3438, DOR: 12/03/2015

nAB15323346, 2RP-3405, DOR: 11/19/2015

Site Name: Todd 36 State 1

This work will be completed on behalf of Harvard Petroleum Company, LLC and Devon Energy, LLC.

From Wednesday February 15 through 17, 2023, at approximately 8:00 a.m.,Vertex staff will be on site to continue to conduct confirmatory sampling. I can be reached at 346-814-1413. If you need directions to the site, please do not hesitate to contact me. If you have any questions or concerns regarding this notification, please let me know.

Thank you,

Kent Stallings P.G.
Project Manager

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

P 575.725.5001
C 346.814.1413
F
[Quoted text hidden]

Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov> Mon, Feb 13, 2023 at 8:50 AM
To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>, "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Hamlet, Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov>

Kent,

[Quoted text hidden]

Dhugal Hanton <vertexresourcegroupusa@gmail.com> Tue, Mar 21, 2023 at 8:13 AM
To: "Enviro, OCD, EMNRD" <OCD.Enviro@emnrd.nm.gov>
Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Hamlet, Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov>

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted for the following releases:

nAB1703948537, 2RP-4105, DOR: 1/28/2017

nAB1534452923, 2RP-3438, DOR: 12/03/2015

nAB15323346, 2RP-3405, DOR: 11/19/2015

Site Name: Todd 36 State 1

This work will be completed on behalf of Harvard Petroleum Company, LLC and Devon Energy, LLC.

On March 23, 2023, at approximately 10:00 a.m.,Vertex staff will be on site to conduct confirmatory sampling through March 26, 2023 . I can be reached at 346-814-1413. If you need directions to the site, please do not hesitate to contact me. If you have any questions or concerns regarding this notification, please let me know.
Hopefully this will be the last notice.
Thank you,

Kent Stallings P.G.
Project Manager

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

P 575.725.5001
C 346.814.1413
F
[Quoted text hidden]

Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov> Tue, Mar 21, 2023 at 8:31 AM
To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Kent,

Please be aware that notification requirements are **two business days**, per rule. Also, when notifying the OCD of a multiple release sampling please include specific days and times of the sampling for each site. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion in the project file.

[Quoted text hidden]

Dhugal Hanton <vertexresourcegroupusa@gmail.com> Tue, Apr 18, 2023 at 1:00 PM
To: "Enviro, OCD, EMNRD" <OCD.Enviro@emnrd.nm.gov>

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted for the following releases:

nAB1703948537, 2RP-4105, DOR: 1/28/2017

Site Name: Todd 36 State #001

This work will be completed on behalf of Harvard Petroleum Company, LLC and Devon Energy, LLC.

On Friday, April 21, 2023, at approximately 8:00 a.m.,Vertex staff will be on site to conduct confirmatory sampling. I can be reached at 346-814-1413. If you need directions to the site, please do not hesitate to contact me. If you have any questions or concerns regarding this notification, please let me know.

Thank you,

Kent Stallings P.G.
Project Manager

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

P 575.725.5001
C 346.814.1413

[Quoted text hidden]

Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov> Wed, Apr 19, 2023 at 1:25 PM
To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>
Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Hamlet, Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov>

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APPENDIX E – Laboratory Data Reports and Chain of Custody Forms

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

October 28, 2022

Kent Stallings

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

RE: Todd 36 State 1 Pasture OrderNo.: 2210930

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 23 sample(s) on 10/19/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2210930**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-01 0'
Project: Todd 36 State 1 Pasture
Collection Date: 10/14/2022 9:30:00 AM
Lab ID: 2210930-001 **Matrix:** SOIL
Received Date: 10/19/2022 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	15		mg/Kg	1	10/24/2022 6:02:13 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/24/2022 6:02:13 PM
Surr: DNOP	98.9	21-129		%Rec	1	10/24/2022 6:02:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/23/2022 4:39:00 AM
Surr: BFB	98.4	37.7-212		%Rec	1	10/23/2022 4:39:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	10/23/2022 4:39:00 AM
Toluene	ND	0.047		mg/Kg	1	10/23/2022 4:39:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/23/2022 4:39:00 AM
Xylenes, Total	ND	0.094		mg/Kg	1	10/23/2022 4:39:00 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	10/23/2022 4:39:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	10/25/2022 12:51:29 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210930**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-01 2'
Project: Todd 36 State 1 Pasture
Collection Date: 10/14/2022 9:35:00 AM
Lab ID: 2210930-002 **Matrix:** SOIL
Received Date: 10/19/2022 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	15		mg/Kg	1	10/24/2022 6:15:42 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/24/2022 6:15:42 PM
Surr: DNOP	90.9	21-129		%Rec	1	10/24/2022 6:15:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/23/2022 4:59:00 AM
Surr: BFB	99.5	37.7-212		%Rec	1	10/23/2022 4:59:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.023		mg/Kg	1	10/23/2022 4:59:00 AM
Toluene	ND	0.047		mg/Kg	1	10/23/2022 4:59:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/23/2022 4:59:00 AM
Xylenes, Total	ND	0.094		mg/Kg	1	10/23/2022 4:59:00 AM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	10/23/2022 4:59:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	1400	60		mg/Kg	20	10/25/2022 1:28:31 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210930**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-01 4'
Project: Todd 36 State 1 Pasture
Collection Date: 10/14/2022 9:40:00 AM
Lab ID: 2210930-003 **Matrix:** SOIL
Received Date: 10/19/2022 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	15		mg/Kg	1	10/24/2022 6:28:55 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/24/2022 6:28:55 PM
Surr: DNOP	93.6	21-129		%Rec	1	10/24/2022 6:28:55 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/23/2022 5:18:00 AM
Surr: BFB	94.9	37.7-212		%Rec	1	10/23/2022 5:18:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	10/23/2022 5:18:00 AM
Toluene	ND	0.048		mg/Kg	1	10/23/2022 5:18:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/23/2022 5:18:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	10/23/2022 5:18:00 AM
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	10/23/2022 5:18:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	10/25/2022 2:30:14 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210930**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-03 0'
Project: Todd 36 State 1 Pasture
Collection Date: 10/14/2022 10:00:00 AM
Lab ID: 2210930-004 **Matrix:** SOIL
Received Date: 10/19/2022 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	15		mg/Kg	1	10/24/2022 6:42:17 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/24/2022 6:42:17 PM
Surr: DNOP	81.9	21-129		%Rec	1	10/24/2022 6:42:17 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/23/2022 5:38:00 AM
Surr: BFB	99.7	37.7-212		%Rec	1	10/23/2022 5:38:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.023		mg/Kg	1	10/23/2022 5:38:00 AM
Toluene	ND	0.046		mg/Kg	1	10/23/2022 5:38:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	10/23/2022 5:38:00 AM
Xylenes, Total	ND	0.093		mg/Kg	1	10/23/2022 5:38:00 AM
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	10/23/2022 5:38:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	10/25/2022 2:42:35 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210930**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-03 2'
Project: Todd 36 State 1 Pasture
Collection Date: 10/14/2022 10:05:00 AM
Lab ID: 2210930-005 **Matrix:** SOIL
Received Date: 10/19/2022 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	14		mg/Kg	1	10/24/2022 6:55:29 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/24/2022 6:55:29 PM
Surr: DNOP	75.3	21-129		%Rec	1	10/24/2022 6:55:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/23/2022 5:58:00 AM
Surr: BFB	99.5	37.7-212		%Rec	1	10/23/2022 5:58:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.023		mg/Kg	1	10/23/2022 5:58:00 AM
Toluene	ND	0.046		mg/Kg	1	10/23/2022 5:58:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	10/23/2022 5:58:00 AM
Xylenes, Total	ND	0.092		mg/Kg	1	10/23/2022 5:58:00 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	10/23/2022 5:58:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	10/25/2022 2:54:57 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210930**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-03 4'
Project: Todd 36 State 1 Pasture
Collection Date: 10/14/2022 10:10:00 AM
Lab ID: 2210930-006 **Matrix:** SOIL
Received Date: 10/19/2022 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	15		mg/Kg	1	10/24/2022 7:08:47 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/24/2022 7:08:47 PM
Surr: DNOP	77.0	21-129		%Rec	1	10/24/2022 7:08:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/23/2022 6:18:00 AM
Surr: BFB	102	37.7-212		%Rec	1	10/23/2022 6:18:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.023		mg/Kg	1	10/23/2022 6:18:00 AM
Toluene	ND	0.047		mg/Kg	1	10/23/2022 6:18:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/23/2022 6:18:00 AM
Xylenes, Total	ND	0.093		mg/Kg	1	10/23/2022 6:18:00 AM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	10/23/2022 6:18:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	62	60		mg/Kg	20	10/25/2022 3:07:18 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210930**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-05 0'
Project: Todd 36 State 1 Pasture
Collection Date: 10/14/2022 10:30:00 AM
Lab ID: 2210930-007 **Matrix:** SOIL
Received Date: 10/19/2022 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	14		mg/Kg	1	10/25/2022 3:29:40 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/25/2022 3:29:40 PM
Surr: DNOP	88.0	21-129		%Rec	1	10/25/2022 3:29:40 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/23/2022 6:37:00 AM
Surr: BFB	106	37.7-212		%Rec	1	10/23/2022 6:37:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	10/23/2022 6:37:00 AM
Toluene	ND	0.049		mg/Kg	1	10/23/2022 6:37:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	10/23/2022 6:37:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	10/23/2022 6:37:00 AM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	10/23/2022 6:37:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	10/25/2022 3:19:38 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210930**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-05 2'
Project: Todd 36 State 1 Pasture
Collection Date: 10/14/2022 10:35:00 AM
Lab ID: 2210930-008 **Matrix:** SOIL
Received Date: 10/19/2022 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	15		mg/Kg	1	10/24/2022 7:35:00 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/24/2022 7:35:00 PM
Surr: DNOP	75.7	21-129		%Rec	1	10/24/2022 7:35:00 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/23/2022 7:17:00 AM
Surr: BFB	105	37.7-212		%Rec	1	10/23/2022 7:17:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	10/23/2022 7:17:00 AM
Toluene	ND	0.048		mg/Kg	1	10/23/2022 7:17:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/23/2022 7:17:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	10/23/2022 7:17:00 AM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	10/23/2022 7:17:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	860	60		mg/Kg	20	10/25/2022 3:31:58 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210930**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-05 4'
Project: Todd 36 State 1 Pasture
Collection Date: 10/14/2022 10:40:00 AM
Lab ID: 2210930-009 **Matrix:** SOIL
Received Date: 10/19/2022 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	15		mg/Kg	1	10/24/2022 7:48:15 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/24/2022 7:48:15 PM
Surr: DNOP	71.2	21-129		%Rec	1	10/24/2022 7:48:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/23/2022 7:36:00 AM
Surr: BFB	99.3	37.7-212		%Rec	1	10/23/2022 7:36:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	10/23/2022 7:36:00 AM
Toluene	ND	0.048		mg/Kg	1	10/23/2022 7:36:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/23/2022 7:36:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	10/23/2022 7:36:00 AM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	10/23/2022 7:36:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	87	60		mg/Kg	20	10/25/2022 3:44:18 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210930**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-06 0'
Project: Todd 36 State 1 Pasture
Collection Date: 10/14/2022 10:45:00 AM
Lab ID: 2210930-010 **Matrix:** SOIL
Received Date: 10/19/2022 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	14		mg/Kg	1	10/24/2022 8:01:19 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/24/2022 8:01:19 PM
Surr: DNOP	65.4	21-129		%Rec	1	10/24/2022 8:01:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/23/2022 7:56:00 AM
Surr: BFB	105	37.7-212		%Rec	1	10/23/2022 7:56:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.023		mg/Kg	1	10/23/2022 7:56:00 AM
Toluene	ND	0.046		mg/Kg	1	10/23/2022 7:56:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	10/23/2022 7:56:00 AM
Xylenes, Total	ND	0.093		mg/Kg	1	10/23/2022 7:56:00 AM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	10/23/2022 7:56:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	10/25/2022 3:56:38 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210930**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-06 2'
Project: Todd 36 State 1 Pasture
Collection Date: 10/14/2022 10:50:00 AM
Lab ID: 2210930-011 **Matrix:** SOIL
Received Date: 10/19/2022 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	15		mg/Kg	1	10/24/2022 8:14:28 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/24/2022 8:14:28 PM
Surr: DNOP	67.1	21-129		%Rec	1	10/24/2022 8:14:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/23/2022 8:16:00 AM
Surr: BFB	98.3	37.7-212		%Rec	1	10/23/2022 8:16:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	10/23/2022 8:16:00 AM
Toluene	ND	0.048		mg/Kg	1	10/23/2022 8:16:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/23/2022 8:16:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	10/23/2022 8:16:00 AM
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	10/23/2022 8:16:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	10/25/2022 4:33:40 AM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210930**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-06 4'
Project: Todd 36 State 1 Pasture
Collection Date: 10/14/2022 10:55:00 AM
Lab ID: 2210930-012 **Matrix:** SOIL
Received Date: 10/19/2022 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	14		mg/Kg	1	10/24/2022 8:27:32 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/24/2022 8:27:32 PM
Surr: DNOP	71.0	21-129		%Rec	1	10/24/2022 8:27:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/23/2022 8:36:00 AM
Surr: BFB	97.4	37.7-212		%Rec	1	10/23/2022 8:36:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	10/23/2022 8:36:00 AM
Toluene	ND	0.048		mg/Kg	1	10/23/2022 8:36:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/23/2022 8:36:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	10/23/2022 8:36:00 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	10/23/2022 8:36:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	63	60		mg/Kg	20	10/25/2022 4:46:01 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210930**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-09 0'
Project: Todd 36 State 1 Pasture
Collection Date: 10/14/2022 1:05:00 PM
Lab ID: 2210930-013 **Matrix:** SOIL
Received Date: 10/19/2022 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	15		mg/Kg	1	10/24/2022 8:40:38 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/24/2022 8:40:38 PM
Surr: DNOP	61.9	21-129		%Rec	1	10/24/2022 8:40:38 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/23/2022 8:55:00 AM
Surr: BFB	99.6	37.7-212		%Rec	1	10/23/2022 8:55:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	10/23/2022 8:55:00 AM
Toluene	ND	0.048		mg/Kg	1	10/23/2022 8:55:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/23/2022 8:55:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	10/23/2022 8:55:00 AM
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	10/23/2022 8:55:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	10/25/2022 4:58:22 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210930**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-09 2'
Project: Todd 36 State 1 Pasture
Collection Date: 10/14/2022 1:10:00 PM
Lab ID: 2210930-014 **Matrix:** SOIL
Received Date: 10/19/2022 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	14		mg/Kg	1	10/24/2022 8:53:38 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/24/2022 8:53:38 PM
Surr: DNOP	68.5	21-129		%Rec	1	10/24/2022 8:53:38 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/23/2022 9:15:00 AM
Surr: BFB	106	37.7-212		%Rec	1	10/23/2022 9:15:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	10/23/2022 9:15:00 AM
Toluene	ND	0.050		mg/Kg	1	10/23/2022 9:15:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/23/2022 9:15:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	10/23/2022 9:15:00 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	10/23/2022 9:15:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	2600	150		mg/Kg	50	10/26/2022 8:58:04 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210930**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-09 4'
Project: Todd 36 State 1 Pasture
Collection Date: 10/14/2022 1:15:00 PM
Lab ID: 2210930-015 **Matrix:** SOIL **Received Date:** 10/19/2022 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	14		mg/Kg	1	10/24/2022 9:06:42 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/24/2022 9:06:42 PM
Surr: DNOP	64.3	21-129		%Rec	1	10/24/2022 9:06:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/23/2022 9:35:00 AM
Surr: BFB	99.2	37.7-212		%Rec	1	10/23/2022 9:35:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.023		mg/Kg	1	10/23/2022 9:35:00 AM
Toluene	ND	0.047		mg/Kg	1	10/23/2022 9:35:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/23/2022 9:35:00 AM
Xylenes, Total	ND	0.094		mg/Kg	1	10/23/2022 9:35:00 AM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	10/23/2022 9:35:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	1600	60		mg/Kg	20	10/25/2022 10:53:55 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210930**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-07 0'
Project: Todd 36 State 1 Pasture
Collection Date: 10/14/2022 11:00:00 AM
Lab ID: 2210930-016 **Matrix:** SOIL
Received Date: 10/19/2022 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	14		mg/Kg	1	10/24/2022 9:19:34 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/24/2022 9:19:34 PM
Surr: DNOP	67.1	21-129		%Rec	1	10/24/2022 9:19:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/23/2022 9:55:00 AM
Surr: BFB	103	37.7-212		%Rec	1	10/23/2022 9:55:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	10/23/2022 9:55:00 AM
Toluene	ND	0.050		mg/Kg	1	10/23/2022 9:55:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/23/2022 9:55:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	10/23/2022 9:55:00 AM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	10/23/2022 9:55:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	610	60		mg/Kg	20	10/25/2022 11:31:08 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210930**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-07 2'
Project: Todd 36 State 1 Pasture
Collection Date: 10/14/2022 11:05:00 AM
Lab ID: 2210930-017 **Matrix:** SOIL
Received Date: 10/19/2022 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	15		mg/Kg	1	10/24/2022 9:32:36 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/24/2022 9:32:36 PM
Surr: DNOP	69.0	21-129		%Rec	1	10/24/2022 9:32:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/23/2022 10:14:00 AM
Surr: BFB	102	37.7-212		%Rec	1	10/23/2022 10:14:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	10/23/2022 10:14:00 AM
Toluene	ND	0.048		mg/Kg	1	10/23/2022 10:14:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/23/2022 10:14:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	10/23/2022 10:14:00 AM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	10/23/2022 10:14:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	13000	600		mg/Kg	200	10/26/2022 9:10:29 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210930**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-07 4'
Project: Todd 36 State 1 Pasture
Collection Date: 10/14/2022 11:10:00 AM
Lab ID: 2210930-018 **Matrix:** SOIL
Received Date: 10/19/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/21/2022 9:40:52 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	10/21/2022 9:40:52 PM
Surr: DNOP	96.9	21-129		%Rec	1	10/21/2022 9:40:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/22/2022 7:39:48 AM
Surr: BFB	92.1	37.7-212		%Rec	1	10/22/2022 7:39:48 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.024		mg/Kg	1	10/22/2022 7:39:48 AM
Toluene	ND	0.049		mg/Kg	1	10/22/2022 7:39:48 AM
Ethylbenzene	ND	0.049		mg/Kg	1	10/22/2022 7:39:48 AM
Xylenes, Total	ND	0.097		mg/Kg	1	10/22/2022 7:39:48 AM
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	1	10/22/2022 7:39:48 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	4700	150		mg/Kg	50	10/26/2022 9:22:54 AM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210930**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-07 6'
Project: Todd 36 State 1 Pasture
Collection Date: 10/14/2022 11:15:00 AM
Lab ID: 2210930-019 **Matrix:** SOIL
Received Date: 10/19/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/21/2022 9:55:09 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/21/2022 9:55:09 PM
Surr: DNOP	89.7	21-129		%Rec	1	10/21/2022 9:55:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/22/2022 8:50:35 AM
Surr: BFB	93.4	37.7-212		%Rec	1	10/22/2022 8:50:35 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.024		mg/Kg	1	10/22/2022 8:50:35 AM
Toluene	ND	0.047		mg/Kg	1	10/22/2022 8:50:35 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/22/2022 8:50:35 AM
Xylenes, Total	ND	0.095		mg/Kg	1	10/22/2022 8:50:35 AM
Surr: 4-Bromofluorobenzene	97.7	70-130		%Rec	1	10/22/2022 8:50:35 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	3700	150		mg/Kg	50	10/26/2022 9:35:18 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210930**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-10 0'
Project: Todd 36 State 1 Pasture
Collection Date: 10/14/2022 1:20:00 PM
Lab ID: 2210930-020 **Matrix:** SOIL
Received Date: 10/19/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/21/2022 10:09:21 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/21/2022 10:09:21 PM
Surr: DNOP	91.0	21-129		%Rec	1	10/21/2022 10:09:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/22/2022 10:01:41 AM
Surr: BFB	91.2	37.7-212		%Rec	1	10/22/2022 10:01:41 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.023		mg/Kg	1	10/22/2022 10:01:41 AM
Toluene	ND	0.046		mg/Kg	1	10/22/2022 10:01:41 AM
Ethylbenzene	ND	0.046		mg/Kg	1	10/22/2022 10:01:41 AM
Xylenes, Total	ND	0.092		mg/Kg	1	10/22/2022 10:01:41 AM
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	1	10/22/2022 10:01:41 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	970	60		mg/Kg	20	10/25/2022 12:20:45 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210930**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-10 2'
Project: Todd 36 State 1 Pasture
Collection Date: 10/14/2022 1:25:00 PM
Lab ID: 2210930-021 **Matrix:** SOIL
Received Date: 10/19/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/21/2022 10:23:43 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/21/2022 10:23:43 PM
Surr: DNOP	93.3	21-129		%Rec	1	10/21/2022 10:23:43 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/22/2022 10:25:20 AM
Surr: BFB	89.9	37.7-212		%Rec	1	10/22/2022 10:25:20 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	10/22/2022 10:25:20 AM
Toluene	ND	0.050		mg/Kg	1	10/22/2022 10:25:20 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/22/2022 10:25:20 AM
Xylenes, Total	ND	0.10		mg/Kg	1	10/22/2022 10:25:20 AM
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	10/22/2022 10:25:20 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	110	60		mg/Kg	20	10/25/2022 12:57:57 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210930**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-10 4'
Project: Todd 36 State 1 Pasture
Collection Date: 10/14/2022 1:30:00 PM
Lab ID: 2210930-022 **Matrix:** SOIL **Received Date:** 10/19/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/25/2022 12:16:55 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/25/2022 12:16:55 AM
Surr: DNOP	98.4	21-129		%Rec	1	10/25/2022 12:16:55 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/22/2022 10:48:58 AM
Surr: BFB	94.1	37.7-212		%Rec	1	10/22/2022 10:48:58 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.024		mg/Kg	1	10/22/2022 10:48:58 AM
Toluene	ND	0.047		mg/Kg	1	10/22/2022 10:48:58 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/22/2022 10:48:58 AM
Xylenes, Total	ND	0.095		mg/Kg	1	10/22/2022 10:48:58 AM
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	10/22/2022 10:48:58 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	94	60		mg/Kg	20	10/25/2022 1:10:21 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210930**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-10 6'
Project: Todd 36 State 1 Pasture
Collection Date: 10/14/2022 1:35:00 PM
Lab ID: 2210930-023 **Matrix:** SOIL
Received Date: 10/19/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/25/2022 12:40:20 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/25/2022 12:40:20 AM
Surr: DNOP	96.3	21-129		%Rec	1	10/25/2022 12:40:20 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/22/2022 11:12:33 AM
Surr: BFB	89.7	37.7-212		%Rec	1	10/22/2022 11:12:33 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	10/22/2022 11:12:33 AM
Toluene	ND	0.050		mg/Kg	1	10/22/2022 11:12:33 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/22/2022 11:12:33 AM
Xylenes, Total	ND	0.099		mg/Kg	1	10/22/2022 11:12:33 AM
Surr: 4-Bromofluorobenzene	93.0	70-130		%Rec	1	10/22/2022 11:12:33 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	130	60		mg/Kg	20	10/25/2022 1:22:45 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 Quanitative 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#: **2210930**

28-Oct-22

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **MB-71033**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **71033**	RunNo: **92046**							
Prep Date: **10/24/2022**	Analysis Date: **10/24/2022**	SeqNo: **3303106**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71033**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **71033**	RunNo: **92046**							
Prep Date: **10/24/2022**	Analysis Date: **10/24/2022**	SeqNo: **3303107**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.2	90	110			

Sample ID: **MB-71047**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **71047**	RunNo: **92054**							
Prep Date: **10/25/2022**	Analysis Date: **10/25/2022**	SeqNo: **3304316**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71047**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **71047**	RunNo: **92054**							
Prep Date: **10/25/2022**	Analysis Date: **10/25/2022**	SeqNo: **3304317**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	99.4	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210930**

28-Oct-22

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **MB-70965**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **70965**	RunNo: **91984**
Prep Date: **10/20/2022**	Analysis Date: **10/21/2022**	SeqNo: **3301050** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		99.5	21	129			

Sample ID: **LCS-70965**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **70965**	RunNo: **91984**
Prep Date: **10/20/2022**	Analysis Date: **10/21/2022**	SeqNo: **3301051** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	15	50.00	0	98.0	64.4	127			
Surr: DNOP	4.7		5.000		93.1	21	129			

Sample ID: **MB-70991**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **70991**	RunNo: **92014**
Prep Date: **10/21/2022**	Analysis Date: **10/24/2022**	SeqNo: **3302745** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		102	21	129			

Sample ID: **LCS-70991**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **70991**	RunNo: **92014**
Prep Date: **10/21/2022**	Analysis Date: **10/24/2022**	SeqNo: **3302746** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	15	50.00	0	88.6	64.4	127			
Surr: DNOP	4.1		5.000		82.1	21	129			

Sample ID: **MB-70967**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **70967**	RunNo: **92021**
Prep Date: **10/20/2022**	Analysis Date: **10/24/2022**	SeqNo: **3303279** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		89.1	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210930**

28-Oct-22

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **LCS-70967** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **70967** RunNo: **92021**

Prep Date: **10/20/2022** Analysis Date: **10/24/2022** SeqNo: **3303280** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	15	50.00	0	98.1	64.4	127			
Surr: DNOP	4.6		5.000		92.8	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210930**

28-Oct-22

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **mb-70932**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **70932**	RunNo: **92004**
Prep Date: **10/19/2022**	Analysis Date: **10/22/2022**	SeqNo: **3300881** 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	900		1000		89.6	37.7	212			

Sample ID: **lcs-70932**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **70932**	RunNo: **92004**
Prep Date: **10/19/2022**	Analysis Date: **10/22/2022**	SeqNo: **3300882** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	72.3	137			
Surr: BFB	2000		1000		196	37.7	212			

Sample ID: **2210930-018AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BH22-07 4'**	Batch ID: **70932**	RunNo: **92004**
Prep Date: **10/19/2022**	Analysis Date: **10/22/2022**	SeqNo: **3300884** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.46	0	103	70	130			
Surr: BFB	1900		978.5		195	37.7	212			

Sample ID: **2210930-018AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BH22-07 4'**	Batch ID: **70932**	RunNo: **92004**
Prep Date: **10/19/2022**	Analysis Date: **10/22/2022**	SeqNo: **3300885** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.41	0	102	70	130	0.742	20	
Surr: BFB	1900		976.6		192	37.7	212	0	0	

Sample ID: **lcs-70927**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **70927**	RunNo: **92005**
Prep Date: **10/19/2022**	Analysis Date: **10/23/2022**	SeqNo: **3301107** 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	97.3	72.3	137			
Surr: BFB	2200		1000		216	37.7	212			S

Sample ID: **mb-70927**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **70927**	RunNo: **92005**
Prep Date: **10/19/2022**	Analysis Date: **10/23/2022**	SeqNo: **3301108** 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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210930**

28-Oct-22

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **mb-70927**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **70927**	RunNo: **92005**
Prep Date: **10/19/2022**	Analysis Date: **10/23/2022**	SeqNo: **3301108** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		98.6	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210930**

28-Oct-22

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **mb-70932**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **70932**	RunNo: **92004**
Prep Date: **10/19/2022**	Analysis Date: **10/22/2022**	SeqNo: **3300943** 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	0.96		1.000		95.5	70	130			

Sample ID: **LCS-70932**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **70932**	RunNo: **92004**
Prep Date: **10/19/2022**	Analysis Date: **10/22/2022**	SeqNo: **3300944** 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	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.5	70	130			

Sample ID: **2210930-019AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BH22-07 6'**	Batch ID: **70932**	RunNo: **92004**
Prep Date: **10/19/2022**	Analysis Date: **10/22/2022**	SeqNo: **3300947** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9461	0	96.0	68.8	120			
Toluene	0.93	0.047	0.9461	0	97.9	73.6	124			
Ethylbenzene	0.92	0.047	0.9461	0	97.2	72.7	129			
Xylenes, Total	2.7	0.095	2.838	0	96.5	75.7	126			
Surr: 4-Bromofluorobenzene	0.94		0.9461		99.6	70	130			

Sample ID: **2210930-019AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BH22-07 6'**	Batch ID: **70932**	RunNo: **92004**
Prep Date: **10/19/2022**	Analysis Date: **10/22/2022**	SeqNo: **3300948** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9425	0	101	68.8	120	4.74	20	
Toluene	0.99	0.047	0.9425	0	105	73.6	124	6.18	20	
Ethylbenzene	0.98	0.047	0.9425	0	104	72.7	129	6.55	20	
Xylenes, Total	3.0	0.094	2.828	0	105	75.7	126	8.39	20	
Surr: 4-Bromofluorobenzene	0.94		0.9425		99.8	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210930**

28-Oct-22

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **lcs-70927** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **70927** RunNo: **92005**

Prep Date: **10/19/2022** Analysis Date: **10/23/2022** SeqNo: **3301155** 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	102	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

Sample ID: **mb-70927** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **70927** RunNo: **92005**

Prep Date: **10/19/2022** Analysis Date: **10/23/2022** SeqNo: **3301156** 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		101	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

ENVIRONMENTAL ANALYSIS LABORATORY

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: 2210930

RcptNo: 1

Received By: Juan Rojas 10/19/2022 7:40:00 AM

Completed By: Tracy Casarrubias 10/19/2022 8:02:10 AM

Reviewed By: KPA 10.19.22

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: JM 10/19/22

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	2.6	Good	Yes			

Released to Imaging: 3/18/2026 3:36:11 PM
Received by OCD: 1/21/2026 6:39:41 AM

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: Todd 36 State 1 "Pasture"

Project #: 21E-02816

Project Manager: Kent Stallings

Sampler:

On Ice: ☐ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 2.5+0.1=2.6 (°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. 2210930	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)
10/14	9:30	Soil	BH22-01 0'	4oz Jar	Ice	001										
	9:35		BH22-01 2'			002										
	9:40		BH22-01 4'			003										
	10:00		BH22-03 0'			004										
	10:05		BH22-03 2'			005										
	10:10		BH22-03 4'			006										
	10:30		BH22-05 0'			007										
	10:35		BH22-05 2'			008										
	10:40		BH22-05 4'			009										
	10:45		BH22-06 0'			010										
	10:50		BH22-06 2'			011										
	10:55		BH22-06 4'			012										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/14	14:30	J. Reta	Acummins		10/18/22	815
10/18/22	1900	Acummins		Courier	10/19/22	7:40

Remarks: Direct Bill to Devon
cc: Monica Peppin. Devon/Harvard.

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: 3/18/2026 3:36:11 PM
Received by OCD: 1/21/2026 6:39:41 AM

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: Todd 36 State 1 "Pasture"

Project #: 21E-02816

Project Manager: Kent Stallings

Sampler: J. Reta

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 2.5+0.1=2.6 (°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. 2210930	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)
10/14	13:05	Soil	BH22-09	0'	4.0z Jar	Ice	013										
	13:10		BH22-09	2'			014										
	13:15		BH22-09	4'			015										
	11:00		BH22-07	0'			016										
	11:05		BH22-07	2'			017										
	11:10		BH22-07	4'			018										
	11:15		BH22-07	6'			019										
	13:20		BH22-10	0'			020										
	13:25		BH22-10	2'			021										
	13:30		BH22-10	4'			022										
	13:35		BH22-10	6'			023										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/14	14:30	J. Reta			10/18/22	815
10/18/22	1900		courier		10/19/22	7:40

Remarks:
Direct Bill to Devon
cc: Monica Peppin. Devon/Harvard.

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

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

October 28, 2022

Kent Stallings

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

RE: Todd 36 State 1 Pasture OrderNo.: 2210A34

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 10 sample(s) on 10/20/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2210A34**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-07 10'
Project: Todd 36 State 1 Pasture
Collection Date: 10/18/2022 9:00:00 AM
Lab ID: 2210A34-001 **Matrix:** SOIL
Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/26/2022 4:58:29 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/26/2022 4:58:29 AM
Surr: DNOP	93.1	21-129		%Rec	1	10/26/2022 4:58:29 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/24/2022 4:37:17 PM
Surr: BFB	91.1	37.7-212		%Rec	1	10/24/2022 4:37:17 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.024		mg/Kg	1	10/24/2022 4:37:17 PM
Toluene	ND	0.049		mg/Kg	1	10/24/2022 4:37:17 PM
Ethylbenzene	ND	0.049		mg/Kg	1	10/24/2022 4:37:17 PM
Xylenes, Total	ND	0.097		mg/Kg	1	10/24/2022 4:37:17 PM
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	10/24/2022 4:37:17 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	190	60		mg/Kg	20	10/24/2022 9:09:18 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210A34**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-12 0'
Project: Todd 36 State 1 Pasture
Collection Date: 10/18/2022 9:05:00 AM
Lab ID: 2210A34-002 **Matrix:** SOIL **Received Date:** 10/20/2022 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/26/2022 5:38:18 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/26/2022 5:38:18 AM
Surr: DNOP	102	21-129		%Rec	1	10/26/2022 5:38:18 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/24/2022 5:48:01 PM
Surr: BFB	101	37.7-212		%Rec	1	10/24/2022 5:48:01 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.024		mg/Kg	1	10/24/2022 5:48:01 PM
Toluene	ND	0.049		mg/Kg	1	10/24/2022 5:48:01 PM
Ethylbenzene	ND	0.049		mg/Kg	1	10/24/2022 5:48:01 PM
Xylenes, Total	ND	0.098		mg/Kg	1	10/24/2022 5:48:01 PM
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	10/24/2022 5:48:01 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	61		mg/Kg	20	10/24/2022 9:21:38 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2210A34**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. **Client Sample ID:** BH22-12 2'
Project: Todd 36 State 1 Pasture **Collection Date:** 10/18/2022 9:10:00 AM
Lab ID: 2210A34-003 **Matrix:** SOIL **Received Date:** 10/20/2022 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/26/2022 5:51:40 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/26/2022 5:51:40 AM
Surr: DNOP	83.0	21-129		%Rec	1	10/26/2022 5:51:40 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/24/2022 6:59:10 PM
Surr: BFB	101	37.7-212		%Rec	1	10/24/2022 6:59:10 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.023		mg/Kg	1	10/24/2022 6:59:10 PM
Toluene	ND	0.047		mg/Kg	1	10/24/2022 6:59:10 PM
Ethylbenzene	ND	0.047		mg/Kg	1	10/24/2022 6:59:10 PM
Xylenes, Total	ND	0.094		mg/Kg	1	10/24/2022 6:59:10 PM
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	10/24/2022 6:59:10 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	10/24/2022 9:33:59 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2210A34**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-12 4'
Project: Todd 36 State 1 Pasture
Collection Date: 10/18/2022 9:15:00 AM
Lab ID: 2210A34-004 **Matrix:** SOIL **Received Date:** 10/20/2022 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/26/2022 6:17:57 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/26/2022 6:17:57 AM
Surr: DNOP	90.0	21-129		%Rec	1	10/26/2022 6:17:57 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/24/2022 7:22:50 PM
Surr: BFB	96.8	37.7-212		%Rec	1	10/24/2022 7:22:50 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.024		mg/Kg	1	10/24/2022 7:22:50 PM
Toluene	ND	0.048		mg/Kg	1	10/24/2022 7:22:50 PM
Ethylbenzene	ND	0.048		mg/Kg	1	10/24/2022 7:22:50 PM
Xylenes, Total	ND	0.097		mg/Kg	1	10/24/2022 7:22:50 PM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	10/24/2022 7:22:50 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	160	60		mg/Kg	20	10/24/2022 3:28:44 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210A34**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-13 0'
Project: Todd 36 State 1 Pasture
Collection Date: 10/18/2022 9:20:00 AM
Lab ID: 2210A34-005 **Matrix:** SOIL **Received Date:** 10/20/2022 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/26/2022 6:31:18 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/26/2022 6:31:18 AM
Surr: DNOP	93.4	21-129		%Rec	1	10/26/2022 6:31:18 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/24/2022 7:46:30 PM
Surr: BFB	93.1	37.7-212		%Rec	1	10/24/2022 7:46:30 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	10/24/2022 7:46:30 PM
Toluene	ND	0.050		mg/Kg	1	10/24/2022 7:46:30 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/24/2022 7:46:30 PM
Xylenes, Total	ND	0.099		mg/Kg	1	10/24/2022 7:46:30 PM
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	10/24/2022 7:46:30 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	61		mg/Kg	20	10/24/2022 4:05:57 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2210A34**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-13 2'
Project: Todd 36 State 1 Pasture
Collection Date: 10/18/2022 9:25:00 AM
Lab ID: 2210A34-006 **Matrix:** SOIL
Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/26/2022 6:44:49 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/26/2022 6:44:49 AM
Surr: DNOP	74.5	21-129		%Rec	1	10/26/2022 6:44:49 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/24/2022 8:10:10 PM
Surr: BFB	99.5	37.7-212		%Rec	1	10/24/2022 8:10:10 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	10/24/2022 8:10:10 PM
Toluene	ND	0.049		mg/Kg	1	10/24/2022 8:10:10 PM
Ethylbenzene	ND	0.049		mg/Kg	1	10/24/2022 8:10:10 PM
Xylenes, Total	ND	0.098		mg/Kg	1	10/24/2022 8:10:10 PM
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	10/24/2022 8:10:10 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	140	60		mg/Kg	20	10/24/2022 4:18:21 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210A34**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-13 4'
Project: Todd 36 State 1 Pasture
Collection Date: 10/18/2022 9:30:00 AM
Lab ID: 2210A34-007 **Matrix:** SOIL **Received Date:** 10/20/2022 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/26/2022 6:58:25 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/26/2022 6:58:25 AM
Surr: DNOP	79.0	21-129		%Rec	1	10/26/2022 6:58:25 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/24/2022 8:33:51 PM
Surr: BFB	98.9	37.7-212		%Rec	1	10/24/2022 8:33:51 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.024		mg/Kg	1	10/24/2022 8:33:51 PM
Toluene	ND	0.049		mg/Kg	1	10/24/2022 8:33:51 PM
Ethylbenzene	ND	0.049		mg/Kg	1	10/24/2022 8:33:51 PM
Xylenes, Total	ND	0.097		mg/Kg	1	10/24/2022 8:33:51 PM
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	10/24/2022 8:33:51 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	10/24/2022 4:30:46 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2210A34**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-15 0'
Project: Todd 36 State 1 Pasture
Collection Date: 10/18/2022 1:00:00 PM
Lab ID: 2210A34-008 **Matrix:** SOIL **Received Date:** 10/20/2022 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/26/2022 7:11:53 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/26/2022 7:11:53 AM
Surr: DNOP	82.8	21-129		%Rec	1	10/26/2022 7:11:53 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/24/2022 8:57:33 PM
Surr: BFB	96.3	37.7-212		%Rec	1	10/24/2022 8:57:33 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	10/24/2022 8:57:33 PM
Toluene	ND	0.050		mg/Kg	1	10/24/2022 8:57:33 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/24/2022 8:57:33 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/24/2022 8:57:33 PM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	10/24/2022 8:57:33 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	10/24/2022 4:43:10 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2210A34**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-15 2'
Project: Todd 36 State 1 Pasture
Collection Date: 10/18/2022 1:05:00 PM
Lab ID: 2210A34-009 **Matrix:** SOIL **Received Date:** 10/20/2022 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/26/2022 7:24:59 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	10/26/2022 7:24:59 AM
Surr: DNOP	84.3	21-129		%Rec	1	10/26/2022 7:24:59 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/24/2022 9:21:10 PM
Surr: BFB	89.1	37.7-212		%Rec	1	10/24/2022 9:21:10 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	10/24/2022 9:21:10 PM
Toluene	ND	0.049		mg/Kg	1	10/24/2022 9:21:10 PM
Ethylbenzene	ND	0.049		mg/Kg	1	10/24/2022 9:21:10 PM
Xylenes, Total	ND	0.098		mg/Kg	1	10/24/2022 9:21:10 PM
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	10/24/2022 9:21:10 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	10/24/2022 4:55:35 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210A34**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. **Client Sample ID:** BH22-15 4'
Project: Todd 36 State 1 Pasture **Collection Date:** 10/18/2022 1:10:00 PM
Lab ID: 2210A34-010 **Matrix:** SOIL **Received Date:** 10/20/2022 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/26/2022 7:38:18 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/26/2022 7:38:18 AM
Surr: DNOP	85.7	21-129		%Rec	1	10/26/2022 7:38:18 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/24/2022 9:44:48 PM
Surr: BFB	97.7	37.7-212		%Rec	1	10/24/2022 9:44:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	10/24/2022 9:44:48 PM
Toluene	ND	0.050		mg/Kg	1	10/24/2022 9:44:48 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/24/2022 9:44:48 PM
Xylenes, Total	ND	0.099		mg/Kg	1	10/24/2022 9:44:48 PM
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	10/24/2022 9:44:48 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	10/24/2022 5:07:59 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 Quanitative 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#: **2210A34**

28-Oct-22

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **MB-71027**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**								
Client ID: **PBS**	Batch ID: **71027**	RunNo: **92018**								
Prep Date: **10/24/2022**	Analysis Date: **10/24/2022**	SeqNo: **3302974**	Units: **mg/Kg**							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71027**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**								
Client ID: **LCSS**	Batch ID: **71027**	RunNo: **92018**								
Prep Date: **10/24/2022**	Analysis Date: **10/24/2022**	SeqNo: **3302975**	Units: **mg/Kg**							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.2	90	110			

Sample ID: **MB-71026**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**								
Client ID: **PBS**	Batch ID: **71026**	RunNo: **92046**								
Prep Date: **10/24/2022**	Analysis Date: **10/24/2022**	SeqNo: **3303074**	Units: **mg/Kg**							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71026**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**								
Client ID: **LCSS**	Batch ID: **71026**	RunNo: **92046**								
Prep Date: **10/24/2022**	Analysis Date: **10/24/2022**	SeqNo: **3303075**	Units: **mg/Kg**							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.0	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210A34**

28-Oct-22

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **MB-71020**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **71020**	RunNo: **92056**
Prep Date: **10/24/2022**	Analysis Date: **10/26/2022**	SeqNo: **3307150** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		88.3	21	129			

Sample ID: **LCS-71020**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **71020**	RunNo: **92056**
Prep Date: **10/24/2022**	Analysis Date: **10/26/2022**	SeqNo: **3307151** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	15	50.00	0	103	64.4	127			
Surr: DNOP	4.3		5.000		85.8	21	129			

Sample ID: **2210A34-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BH22-07 10'**	Batch ID: **71020**	RunNo: **92056**
Prep Date: **10/24/2022**	Analysis Date: **10/26/2022**	SeqNo: **3307153** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	15	49.07	0	88.7	36.1	154			
Surr: DNOP	4.4		4.907		89.7	21	129			

Sample ID: **2210A34-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BH22-07 10'**	Batch ID: **71020**	RunNo: **92056**
Prep Date: **10/24/2022**	Analysis Date: **10/26/2022**	SeqNo: **3307154** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	15	49.16	0	95.3	36.1	154	7.34	33.9	
Surr: DNOP	4.3		4.916		88.2	21	129	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210A34**

28-Oct-22

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G92027**	RunNo: **92027**
Prep Date:	Analysis Date: **10/24/2022**	SeqNo: **3302526** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	950		1000		95.1	37.7	212			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G92027**	RunNo: **92027**
Prep Date:	Analysis Date: **10/24/2022**	SeqNo: **3302527** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1900		1000		190	37.7	212			

Sample ID: **mb-71003**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **71003**	RunNo: **92027**
Prep Date: **10/23/2022**	Analysis Date: **10/24/2022**	SeqNo: **3302540** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		100	37.7	212			

Sample ID: **lcs-71003**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **71003**	RunNo: **92027**
Prep Date: **10/23/2022**	Analysis Date: **10/24/2022**	SeqNo: **3302541** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	72.3	137			
Surr: BFB	2000		1000		204	37.7	212			

Sample ID: **2210a34-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BH22-07 10'**	Batch ID: **71003**	RunNo: **92027**
Prep Date: **10/23/2022**	Analysis Date: **10/24/2022**	SeqNo: **3302543** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	4.9	24.70	0	124	70	130			
Surr: BFB	2200		988.1		221	37.7	212			S

Sample ID: **2210a34-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BH22-07 10'**	Batch ID: **71003**	RunNo: **92027**
Prep Date: **10/23/2022**	Analysis Date: **10/24/2022**	SeqNo: **3302544** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	4.9	24.65	0	127	70	130	1.84	20	
Surr: BFB	2100		986.2		216	37.7	212	0	0	S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
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#: **2210A34**

28-Oct-22

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **mb-71003**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **71003**	RunNo: **92027**
Prep Date: **10/23/2022**	Analysis Date: **10/24/2022**	SeqNo: **3302586** 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		105	70	130			

Sample ID: **LCS-71003**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **71003**	RunNo: **92027**
Prep Date: **10/23/2022**	Analysis Date: **10/24/2022**	SeqNo: **3302587** 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	102	80	120			
Toluene	1.1	0.050	1.000	0	105	80	120			
Ethylbenzene	1.1	0.050	1.000	0	105	80	120			
Xylenes, Total	3.2	0.10	3.000	0	105	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	70	130			

Sample ID: **2210a34-002ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BH22-12 0'**	Batch ID: **71003**	RunNo: **92027**
Prep Date: **10/23/2022**	Analysis Date: **10/24/2022**	SeqNo: **3302590** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9843	0	109	68.8	120			
Toluene	1.1	0.049	0.9843	0	112	73.6	124			
Ethylbenzene	1.1	0.049	0.9843	0	112	72.7	129			
Xylenes, Total	3.3	0.098	2.953	0	112	75.7	126			
Surr: 4-Bromofluorobenzene	1.0		0.9843		106	70	130			

Sample ID: **2210a34-002amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BH22-12 0'**	Batch ID: **71003**	RunNo: **92027**
Prep Date: **10/23/2022**	Analysis Date: **10/24/2022**	SeqNo: **3302591** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9814	0	105	68.8	120	4.44	20	
Toluene	1.1	0.049	0.9814	0	108	73.6	124	3.92	20	
Ethylbenzene	1.1	0.049	0.9814	0	109	72.7	129	3.06	20	
Xylenes, Total	3.2	0.098	2.944	0	109	75.7	126	3.04	20	
Surr: 4-Bromofluorobenzene	1.0		0.9814		103	70	130	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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

ENVIRONMENTAL ANALYSIS LABORATORY

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: 2210A34

RcptNo: 1

Received By: Juan Rojas 10/18/2022 9:00:00 AM

Completed By: Tracy Casarrubias 10/20/2022 8:27:54 AM

Reviewed By: SGC 10/20/22

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: KPC 10.20.22

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	2.4	Good	Yes			

Released to Imaging: 3/18/2026 3:36:11 PM
Received by OCD: 1/21/2026 6:39:41 AM

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: Todd 36 State 1 "Pasture"

Project #: 21E-02816

Project Manager: K. Stallings

Sampler: J. Reta

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 7.3+0.1=2.4 (°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. 2210434	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)
10/18	9:00	Soil	BH22-07 10'	4oz Jar	Ice	001										
	9:05		BH22-12 0'			002										
	9:10		BH22-12 2'			003										
	9:15		BH22-12 4'			004										
	9:20		BH22-13 0'			005										
	9:25		BH22-13 2'			006										
	9:30		BH22-13 4'			007										
	13:00		BH22-15 0'			008										
	13:05		BH22-15 2'			009										
	13:10		BH22-15 4'			010										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/18	17:00	J. Reta			10/19/22	1230
10/19/22	1900			Courier	10/20/22	715

Remarks: Direct Bill to Devon
cc: M. Peppin

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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

October 28, 2022

Kent Stallings

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

RE: Todd 36 State 1 Pasture OrderNo.: 2210B05

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 12 sample(s) on 10/21/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2210B05**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-16 0'
Project: Todd 36 State 1 Pasture
Collection Date: 10/19/2022 9:30:00 AM
Lab ID: 2210B05-001 **Matrix:** SOIL
Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	10/26/2022 3:25:18 AM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	10/26/2022 3:25:18 AM
Surr: DNOP	90.6	21-129		%Rec	1	10/26/2022 3:25:18 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/25/2022 2:56:00 AM
Surr: BFB	98.9	37.7-212		%Rec	1	10/25/2022 2:56:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	10/25/2022 2:56:00 AM
Toluene	ND	0.048		mg/Kg	1	10/25/2022 2:56:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/25/2022 2:56:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	10/25/2022 2:56:00 AM
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	10/25/2022 2:56:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	59		mg/Kg	20	10/26/2022 10:49:46 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210B05**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. **Client Sample ID:** BH22-16 2'
Project: Todd 36 State 1 Pasture **Collection Date:** 10/19/2022 9:35:00 AM
Lab ID: 2210B05-002 **Matrix:** SOIL **Received Date:** 10/21/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/26/2022 3:38:57 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/26/2022 3:38:57 AM
Surr: DNOP	85.6	21-129		%Rec	1	10/26/2022 3:38:57 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/25/2022 3:16:00 AM
Surr: BFB	97.1	37.7-212		%Rec	1	10/25/2022 3:16:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	10/25/2022 3:16:00 AM
Toluene	ND	0.050		mg/Kg	1	10/25/2022 3:16:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2022 3:16:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2022 3:16:00 AM
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	10/25/2022 3:16:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	10/26/2022 5:05:37 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210B05**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-16 4'
Project: Todd 36 State 1 Pasture
Collection Date: 10/19/2022 9:40:00 AM
Lab ID: 2210B05-003 **Matrix:** SOIL
Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/26/2022 3:52:05 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/26/2022 3:52:05 AM
Surr: DNOP	79.8	21-129		%Rec	1	10/26/2022 3:52:05 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/25/2022 3:36:00 AM
Surr: BFB	97.8	37.7-212		%Rec	1	10/25/2022 3:36:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	10/25/2022 3:36:00 AM
Toluene	ND	0.049		mg/Kg	1	10/25/2022 3:36:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	10/25/2022 3:36:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	10/25/2022 3:36:00 AM
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	10/25/2022 3:36:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	10/26/2022 12:45:01 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210B05**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-18 0'
Project: Todd 36 State 1 Pasture
Collection Date: 10/19/2022 10:00:00 AM
Lab ID: 2210B05-004 **Matrix:** SOIL
Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/26/2022 4:05:20 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/26/2022 4:05:20 AM
Surr: DNOP	85.4	21-129		%Rec	1	10/26/2022 4:05:20 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/25/2022 3:55:00 AM
Surr: BFB	98.5	37.7-212		%Rec	1	10/25/2022 3:55:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	10/25/2022 3:55:00 AM
Toluene	ND	0.050		mg/Kg	1	10/25/2022 3:55:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2022 3:55:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2022 3:55:00 AM
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	10/25/2022 3:55:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	10/26/2022 12:57:25 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2210B05**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-18 2'
Project: Todd 36 State 1 Pasture
Collection Date: 10/19/2022 10:05:00 AM
Lab ID: 2210B05-005 **Matrix:** SOIL
Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/26/2022 4:18:26 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/26/2022 4:18:26 AM
Surr: DNOP	72.0	21-129		%Rec	1	10/26/2022 4:18:26 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/25/2022 4:15:00 AM
Surr: BFB	99.3	37.7-212		%Rec	1	10/25/2022 4:15:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	10/25/2022 4:15:00 AM
Toluene	ND	0.049		mg/Kg	1	10/25/2022 4:15:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	10/25/2022 4:15:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	10/25/2022 4:15:00 AM
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	10/25/2022 4:15:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	10/26/2022 1:09:49 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210B05**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-18 4'
Project: Todd 36 State 1 Pasture
Collection Date: 10/19/2022 10:10:00 AM
Lab ID: 2210B05-006 **Matrix:** SOIL
Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/26/2022 11:46:43 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/26/2022 11:46:43 AM
Surr: DNOP	112	21-129		%Rec	1	10/26/2022 11:46:43 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/25/2022 12:45:00 PM
Surr: BFB	95.1	37.7-212		%Rec	1	10/25/2022 12:45:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	10/25/2022 12:45:00 PM
Toluene	ND	0.049		mg/Kg	1	10/25/2022 12:45:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	10/25/2022 12:45:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	10/25/2022 12:45:00 PM
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	10/25/2022 12:45:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	10/26/2022 1:22:14 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210B05**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-19 0'
Project: Todd 36 State 1 Pasture
Collection Date: 10/19/2022 10:30:00 AM
Lab ID: 2210B05-007 **Matrix:** SOIL
Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/26/2022 12:58:36 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	10/26/2022 12:58:36 PM
Surr: DNOP	104	21-129		%Rec	1	10/26/2022 12:58:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/25/2022 1:05:00 PM
Surr: BFB	101	37.7-212		%Rec	1	10/25/2022 1:05:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.023		mg/Kg	1	10/25/2022 1:05:00 PM
Toluene	ND	0.047		mg/Kg	1	10/25/2022 1:05:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	10/25/2022 1:05:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	10/25/2022 1:05:00 PM
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	10/25/2022 1:05:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	10/26/2022 1:34:39 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210B05**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-19 2'
Project: Todd 36 State 1 Pasture
Collection Date: 10/19/2022 10:35:00 AM
Lab ID: 2210B05-008 **Matrix:** SOIL
Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/26/2022 1:22:43 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/26/2022 1:22:43 PM
Surr: DNOP	102	21-129		%Rec	1	10/26/2022 1:22:43 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/25/2022 1:25:00 PM
Surr: BFB	99.4	37.7-212		%Rec	1	10/25/2022 1:25:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	10/25/2022 1:25:00 PM
Toluene	ND	0.047		mg/Kg	1	10/25/2022 1:25:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	10/25/2022 1:25:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	10/25/2022 1:25:00 PM
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	10/25/2022 1:25:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	74	59		mg/Kg	20	10/26/2022 2:11:52 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210B05**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-19 4'
Project: Todd 36 State 1 Pasture
Collection Date: 10/19/2022 10:40:00 AM
Lab ID: 2210B05-009 **Matrix:** SOIL
Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/26/2022 1:46:57 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/26/2022 1:46:57 PM
Surr: DNOP	117	21-129		%Rec	1	10/26/2022 1:46:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/25/2022 1:44:00 PM
Surr: BFB	101	37.7-212		%Rec	1	10/25/2022 1:44:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	10/25/2022 1:44:00 PM
Toluene	ND	0.047		mg/Kg	1	10/25/2022 1:44:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	10/25/2022 1:44:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	10/25/2022 1:44:00 PM
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	10/25/2022 1:44:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	59		mg/Kg	20	10/26/2022 2:24:16 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210B05**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-21 0'
Project: Todd 36 State 1 Pasture
Collection Date: 10/19/2022 1:05:00 PM
Lab ID: 2210B05-010 **Matrix:** SOIL
Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/26/2022 2:42:01 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/26/2022 2:42:01 PM
Surr: DNOP	88.5	21-129		%Rec	1	10/26/2022 2:42:01 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/25/2022 2:04:00 PM
Surr: BFB	99.6	37.7-212		%Rec	1	10/25/2022 2:04:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	10/25/2022 2:04:00 PM
Toluene	ND	0.048		mg/Kg	1	10/25/2022 2:04:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	10/25/2022 2:04:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	10/25/2022 2:04:00 PM
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	10/25/2022 2:04:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	10/26/2022 2:36:41 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210B05**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-21 2'
Project: Todd 36 State 1 Pasture
Collection Date: 10/19/2022 1:10:00 PM
Lab ID: 2210B05-011 **Matrix:** SOIL
Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/26/2022 3:06:10 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/26/2022 3:06:10 PM
Surr: DNOP	97.0	21-129		%Rec	1	10/26/2022 3:06:10 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/25/2022 2:24:00 PM
Surr: BFB	104	37.7-212		%Rec	1	10/25/2022 2:24:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	10/25/2022 2:24:00 PM
Toluene	ND	0.048		mg/Kg	1	10/25/2022 2:24:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	10/25/2022 2:24:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	10/25/2022 2:24:00 PM
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	10/25/2022 2:24:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	10/26/2022 2:49:05 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210B05**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BH22-21 4'
Project: Todd 36 State 1 Pasture
Collection Date: 10/19/2022 1:15:00 PM
Lab ID: 2210B05-012 **Matrix:** SOIL
Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	10/26/2022 3:30:22 PM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	10/26/2022 3:30:22 PM
Surr: DNOP	104	21-129		%Rec	1	10/26/2022 3:30:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/25/2022 2:43:00 PM
Surr: BFB	105	37.7-212		%Rec	1	10/25/2022 2:43:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	10/25/2022 2:43:00 PM
Toluene	ND	0.049		mg/Kg	1	10/25/2022 2:43:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	10/25/2022 2:43:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	10/25/2022 2:43:00 PM
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	10/25/2022 2:43:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	10/26/2022 3:01:30 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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 Quanitative 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#: **2210B05**

28-Oct-22

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **MB-71072**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **71072**	RunNo: **92082**							
Prep Date: **10/26/2022**	Analysis Date: **10/26/2022**	SeqNo: **3306560**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71072**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **71072**	RunNo: **92082**							
Prep Date: **10/26/2022**	Analysis Date: **10/26/2022**	SeqNo: **3306561**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.1	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210B05**

28-Oct-22

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **MB-71054**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **71054**	RunNo: **92087**
Prep Date: **10/25/2022**	Analysis Date: **10/26/2022**	SeqNo: **3305152** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		111	21	129			

Sample ID: **LCS-71054**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **71054**	RunNo: **92087**
Prep Date: **10/25/2022**	Analysis Date: **10/26/2022**	SeqNo: **3305153** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	15	50.00	0	107	64.4	127			
Surr: DNOP	5.1		5.000		103	21	129			

Sample ID: **2210B05-006AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BH22-18 4'**	Batch ID: **71054**	RunNo: **92087**
Prep Date: **10/25/2022**	Analysis Date: **10/26/2022**	SeqNo: **3305155** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	15	48.69	0	113	36.1	154			
Surr: DNOP	5.3		4.869		110	21	129			

Sample ID: **2210B05-006AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BH22-18 4'**	Batch ID: **71054**	RunNo: **92087**
Prep Date: **10/25/2022**	Analysis Date: **10/26/2022**	SeqNo: **3305156** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	14	46.95	0	111	36.1	154	4.70	33.9	
Surr: DNOP	5.0		4.695		107	21	129	0	0	

Sample ID: **MB-71021**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **71021**	RunNo: **92056**
Prep Date: **10/24/2022**	Analysis Date: **10/25/2022**	SeqNo: **3307123** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.0		10.00		80.1	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210B05**

28-Oct-22

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **LCS-71021** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **71021** RunNo: **92056**

Prep Date: **10/24/2022** Analysis Date: **10/25/2022** SeqNo: **3307124** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	15	50.00	0	104	64.4	127			
Surr: DNOP	3.9		5.000		78.1	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210B05**

28-Oct-22

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **mb-71005** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBS** Batch ID: **71005** RunNo: **92041**

Prep Date: **10/23/2022** Analysis Date: **10/24/2022** SeqNo: **3302845** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		98.8	37.7	212			

Sample ID: **lcs-71005** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **71005** RunNo: **92041**

Prep Date: **10/23/2022** Analysis Date: **10/24/2022** SeqNo: **3303528** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	72.3	137			
Surr: BFB	2200		1000		223	37.7	212			S

Sample ID: **lcs-71014** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **71014** RunNo: **92075**

Prep Date: **10/24/2022** Analysis Date: **10/25/2022** SeqNo: **3304536** 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	102	72.3	137			
Surr: BFB	2300		1000		226	37.7	212			S

Sample ID: **mb-71014** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBS** Batch ID: **71014** RunNo: **92075**

Prep Date: **10/24/2022** Analysis Date: **10/25/2022** SeqNo: **3304537** 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		104	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210B05**

28-Oct-22

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **lcs-71005** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **71005** RunNo: **92041**

Prep Date: **10/23/2022** Analysis Date: **10/24/2022** SeqNo: **3302911** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	105	80	120			
Toluene	1.1	0.050	1.000	0	106	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.2	0.10	3.000	0	106	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	70	130			

Sample ID: **mb-71005** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **71005** RunNo: **92041**

Prep Date: **10/23/2022** Analysis Date: **10/24/2022** SeqNo: **3302912** 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	1.1		1.000		107	70	130			

Sample ID: **lcs-71014** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **71014** RunNo: **92075**

Prep Date: **10/24/2022** Analysis Date: **10/25/2022** SeqNo: **3304669** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	110	80	120			
Toluene	1.1	0.050	1.000	0	111	80	120			
Ethylbenzene	1.1	0.050	1.000	0	110	80	120			
Xylenes, Total	3.3	0.10	3.000	0	109	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		113	70	130			

Sample ID: **mb-71014** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **71014** RunNo: **92075**

Prep Date: **10/24/2022** Analysis Date: **10/25/2022** SeqNo: **3304670** 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	1.1		1.000		114	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 2210B05

RcptNo: 1

Received By: Juan Rojas 10/21/2022 7:20:00 AM

Completed By: Tracy Casarrubias 10/21/2022 8:21:47 AM

Reviewed By: 10/21/22

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: RPC 10.21.22

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	0.4	Good	Yes			

Released to Imaging: 3/18/2026 3:36:11 PM
Received by OCD: 1/21/2026 6:39:41 AM

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 Days

Project Name: Todd 36 State 1 "Pasture"

Project #: 21E-02816

Project Manager: Kent Stallings

Sampler: J. Reta

On Ice: ~~☐ Yes~~ ☐ No

# of Coolers: 1

Cooler Temp (including CF): 0.2+0.2=0.4 (°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. 2210805	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)
10/19	9:30	Soil	BH22-16 0'	4oz Jar	Ice	001										
	9:35		BH22-16 2'			002										
	9:40		BH22-16 4'			003										
	10:00		BH22-18 0'			004										
	10:05		BH22-18 2'			005										
	10:10		BH22-18 4'			006										
	10:30		BH22-19 0'			007										
	10:35		BH22-19 2'			008										
	10:40		BH22-19 4'			009										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/19	17:37	J. Reta	[signature]		10/20/22	1100
10/20/22	1900	[signature]	[signature]	Courier	10/21/22	7:20

Remarks: Direct Bill to Devon
CC: Monica Peppin
Devon/Harvard.

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: 3/18/2026 3:36:17 PM
Received by OCD: 1/21/2026 6:39:41 AM

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: ToJo 36 State 1 "Pasture"

Project #: 21E-02816

Project Manager: Kent Stallings

Sampler: J. Reta

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.2+0.2=0.4 (°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. 2210805	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)
10/19	13:05	Soil	BH22-21 0'	4oz Jar	Ice	010										
	13:10		BH22-21 2'			011										
	13:15		BH22-21 4'			012										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/19	17:37	J. Reta			10/20/22	1100
10/20/22	1900				10/21/22	7:20

Remarks: Direct Bill to Devon
cc: Monica Peppin

Devon/Harvard

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

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

January 27, 2023

Kent Stallings

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

RE: Todd 36 State 1 Pasture OrderNo.: 2301573

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 54 sample(s) on 1/17/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-01 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 9:30:00 AM
Lab ID: 2301573-001 **Matrix:** SOIL **Received Date:** 1/17/2023 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	1/18/2023 4:00:36 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/18/2023 4:00:36 PM
Surr: DNOP	95.1	69-147		%Rec	1	1/18/2023 4:00:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/18/2023 4:53:00 PM
Surr: BFB	91.0	37.7-212		%Rec	1	1/18/2023 4:53:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	1/18/2023 4:53:00 PM
Toluene	ND	0.050		mg/Kg	1	1/18/2023 4:53:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/18/2023 4:53:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/18/2023 4:53:00 PM
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	1/18/2023 4:53:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	470	60		mg/Kg	20	1/17/2023 7:47:10 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-02 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 9:35:00 AM
Lab ID: 2301573-002 **Matrix:** SOIL
Received Date: 1/17/2023 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	1/18/2023 4:11:35 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/18/2023 4:11:35 PM
Surr: DNOP	106	69-147		%Rec	1	1/18/2023 4:11:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/18/2023 5:12:00 PM
Surr: BFB	86.7	37.7-212		%Rec	1	1/18/2023 5:12:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	1/18/2023 5:12:00 PM
Toluene	ND	0.047		mg/Kg	1	1/18/2023 5:12:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/18/2023 5:12:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/18/2023 5:12:00 PM
Surr: 4-Bromofluorobenzene	87.9	70-130		%Rec	1	1/18/2023 5:12:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	230	60		mg/Kg	20	1/17/2023 7:59:31 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-03 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 9:40:00 AM
Lab ID: 2301573-003 **Matrix:** SOIL
Received Date: 1/17/2023 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	1/18/2023 4:22:33 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/18/2023 4:22:33 PM
Surr: DNOP	98.5	69-147		%Rec	1	1/18/2023 4:22:33 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/18/2023 5:32:00 PM
Surr: BFB	91.1	37.7-212		%Rec	1	1/18/2023 5:32:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	1/18/2023 5:32:00 PM
Toluene	ND	0.049		mg/Kg	1	1/18/2023 5:32:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/18/2023 5:32:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/18/2023 5:32:00 PM
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	1/18/2023 5:32:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	1200	60		mg/Kg	20	1/17/2023 8:11:51 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-04 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 9:45:00 AM
Lab ID: 2301573-004 **Matrix:** SOIL
Received Date: 1/17/2023 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)	12	9.5		mg/Kg	1	1/18/2023 4:33:30 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/18/2023 4:33:30 PM
Surr: DNOP	104	69-147		%Rec	1	1/18/2023 4:33:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/18/2023 5:52:00 PM
Surr: BFB	92.2	37.7-212		%Rec	1	1/18/2023 5:52:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	1/18/2023 5:52:00 PM
Toluene	ND	0.049		mg/Kg	1	1/18/2023 5:52:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/18/2023 5:52:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/18/2023 5:52:00 PM
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	1/18/2023 5:52:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	340	60		mg/Kg	20	1/17/2023 8:24:12 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-05 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 9:50:00 AM
Lab ID: 2301573-005 **Matrix:** SOIL
Received Date: 1/17/2023 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	8.8		mg/Kg	1	1/18/2023 4:44:26 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/18/2023 4:44:26 PM
Surr: DNOP	104	69-147		%Rec	1	1/18/2023 4:44:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/18/2023 6:12:00 PM
Surr: BFB	92.5	37.7-212		%Rec	1	1/18/2023 6:12:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	1/18/2023 6:12:00 PM
Toluene	ND	0.050		mg/Kg	1	1/18/2023 6:12:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/18/2023 6:12:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/18/2023 6:12:00 PM
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	1/18/2023 6:12:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	3300	150		mg/Kg	50	1/18/2023 9:26:13 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-06 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 9:55:00 AM
Lab ID: 2301573-006 **Matrix:** SOIL
Received Date: 1/17/2023 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	1/18/2023 4:55:20 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/18/2023 4:55:20 PM
Surr: DNOP	99.0	69-147		%Rec	1	1/18/2023 4:55:20 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/18/2023 6:31:00 PM
Surr: BFB	95.2	37.7-212		%Rec	1	1/18/2023 6:31:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	1/18/2023 6:31:00 PM
Toluene	ND	0.049		mg/Kg	1	1/18/2023 6:31:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/18/2023 6:31:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/18/2023 6:31:00 PM
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	1/18/2023 6:31:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	3800	150		mg/Kg	50	1/18/2023 9:38:34 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-07 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 10:00:00 AM
Lab ID: 2301573-007 **Matrix:** SOIL **Received Date:** 1/17/2023 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	9.9		mg/Kg	1	1/18/2023 5:06:15 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/18/2023 5:06:15 PM
Surr: DNOP	95.8	69-147		%Rec	1	1/18/2023 5:06:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/18/2023 6:51:00 PM
Surr: BFB	92.0	37.7-212		%Rec	1	1/18/2023 6:51:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	1/18/2023 6:51:00 PM
Toluene	ND	0.049		mg/Kg	1	1/18/2023 6:51:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/18/2023 6:51:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/18/2023 6:51:00 PM
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	1	1/18/2023 6:51:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	5300	150		mg/Kg	50	1/18/2023 9:50:54 AM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-08 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 10:05:00 AM
Lab ID: 2301573-008 **Matrix:** SOIL
Received Date: 1/17/2023 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	1/18/2023 5:17:05 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/18/2023 5:17:05 PM
Surr: DNOP	103	69-147		%Rec	1	1/18/2023 5:17:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/18/2023 7:11:00 PM
Surr: BFB	88.6	37.7-212		%Rec	1	1/18/2023 7:11:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	1/18/2023 7:11:00 PM
Toluene	ND	0.048		mg/Kg	1	1/18/2023 7:11:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/18/2023 7:11:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/18/2023 7:11:00 PM
Surr: 4-Bromofluorobenzene	90.1	70-130		%Rec	1	1/18/2023 7:11:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	1/17/2023 9:13:35 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-09 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 10:10:00 AM
Lab ID: 2301573-009 **Matrix:** SOIL **Received Date:** 1/17/2023 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	1/18/2023 5:59:57 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/18/2023 5:59:57 PM
Surr: DNOP	102	69-147		%Rec	1	1/18/2023 5:59:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/18/2023 5:48:50 PM
Surr: BFB	104	37.7-212		%Rec	1	1/18/2023 5:48:50 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	1/18/2023 5:48:50 PM
Toluene	ND	0.049		mg/Kg	1	1/18/2023 5:48:50 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/18/2023 5:48:50 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/18/2023 5:48:50 PM
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	1/18/2023 5:48:50 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	64	60		mg/Kg	20	1/17/2023 9:25:55 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-10 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 10:15:00 AM
Lab ID: 2301573-010 **Matrix:** SOIL **Received Date:** 1/17/2023 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	9.9		mg/Kg	1	1/18/2023 6:31:37 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/18/2023 6:31:37 PM
Surr: DNOP	79.1	69-147		%Rec	1	1/18/2023 6:31:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/18/2023 6:59:20 PM
Surr: BFB	105	37.7-212		%Rec	1	1/18/2023 6:59:20 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	1/18/2023 6:59:20 PM
Toluene	ND	0.049		mg/Kg	1	1/18/2023 6:59:20 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/18/2023 6:59:20 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/18/2023 6:59:20 PM
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	1/18/2023 6:59:20 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	1/17/2023 10:27:37 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-11 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 10:20:00 AM
Lab ID: 2301573-011 **Matrix:** SOIL
Received Date: 1/17/2023 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	9.8		mg/Kg	1	1/20/2023 10:51:47 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/20/2023 10:51:47 AM
Surr: DNOP	78.5	69-147		%Rec	1	1/20/2023 10:51:47 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/18/2023 8:09:35 PM
Surr: BFB	102	37.7-212		%Rec	1	1/18/2023 8:09:35 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	1/18/2023 8:09:35 PM
Toluene	ND	0.048		mg/Kg	1	1/18/2023 8:09:35 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/18/2023 8:09:35 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/18/2023 8:09:35 PM
Surr: 4-Bromofluorobenzene	96.5	70-130		%Rec	1	1/18/2023 8:09:35 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	1/17/2023 11:04:39 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-12 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 10:25:00 AM
Lab ID: 2301573-012 **Matrix:** SOIL
Received Date: 1/17/2023 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	1/18/2023 6:52:51 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/18/2023 6:52:51 PM
Surr: DNOP	77.4	69-147		%Rec	1	1/18/2023 6:52:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/18/2023 8:32:57 PM
Surr: BFB	103	37.7-212		%Rec	1	1/18/2023 8:32:57 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	1/18/2023 8:32:57 PM
Toluene	ND	0.049		mg/Kg	1	1/18/2023 8:32:57 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/18/2023 8:32:57 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/18/2023 8:32:57 PM
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	1/18/2023 8:32:57 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	1/17/2023 11:17:00 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-13 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 10:30:00 AM
Lab ID: 2301573-013 **Matrix:** SOIL
Received Date: 1/17/2023 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	9.9		mg/Kg	1	1/18/2023 7:03:16 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/18/2023 7:03:16 PM
Surr: DNOP	73.0	69-147		%Rec	1	1/18/2023 7:03:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/19/2023 2:09:46 PM
Surr: BFB	105	37.7-212		%Rec	1	1/19/2023 2:09:46 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	1/18/2023 9:43:03 PM
Toluene	ND	0.049		mg/Kg	1	1/18/2023 9:43:03 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/18/2023 9:43:03 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/18/2023 9:43:03 PM
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	1/18/2023 9:43:03 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	2800	150		mg/Kg	50	1/18/2023 10:03:14 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-14 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 10:35:00 AM
Lab ID: 2301573-014 **Matrix:** SOIL
Received Date: 1/17/2023 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	8.7		mg/Kg	1	1/18/2023 7:13:43 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	1/18/2023 7:13:43 PM
Surr: DNOP	76.3	69-147		%Rec	1	1/18/2023 7:13:43 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/19/2023 2:33:19 PM
Surr: BFB	122	37.7-212		%Rec	1	1/19/2023 2:33:19 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	1/18/2023 10:06:21 PM
Toluene	ND	0.048		mg/Kg	1	1/18/2023 10:06:21 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/18/2023 10:06:21 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/18/2023 10:06:21 PM
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	1/18/2023 10:06:21 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	1700	59		mg/Kg	20	1/17/2023 11:41:41 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-16 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 10:45:00 AM
Lab ID: 2301573-015 **Matrix:** SOIL **Received Date:** 1/17/2023 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	1/18/2023 7:24:12 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/18/2023 7:24:12 PM
Surr: DNOP	77.9	69-147		%Rec	1	1/18/2023 7:24:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/19/2023 2:56:50 PM
Surr: BFB	105	37.7-212		%Rec	1	1/19/2023 2:56:50 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	1/18/2023 10:29:39 PM
Toluene	ND	0.048		mg/Kg	1	1/18/2023 10:29:39 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/18/2023 10:29:39 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/18/2023 10:29:39 PM
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	1/18/2023 10:29:39 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	2100	60		mg/Kg	20	1/17/2023 11:54:02 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-17 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 10:50:00 AM
Lab ID: 2301573-016 **Matrix:** SOIL **Received Date:** 1/17/2023 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	9.9		mg/Kg	1	1/18/2023 7:34:42 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/18/2023 7:34:42 PM
Surr: DNOP	79.5	69-147		%Rec	1	1/18/2023 7:34:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/19/2023 3:20:27 PM
Surr: BFB	107	37.7-212		%Rec	1	1/19/2023 3:20:27 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	1/18/2023 10:52:53 PM
Toluene	ND	0.050		mg/Kg	1	1/18/2023 10:52:53 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/18/2023 10:52:53 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/18/2023 10:52:53 PM
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	1/18/2023 10:52:53 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	1300	60		mg/Kg	20	1/18/2023 12:31:03 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-18 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 10:55:00 AM
Lab ID: 2301573-017 **Matrix:** SOIL **Received Date:** 1/17/2023 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)	12	9.7		mg/Kg	1	1/18/2023 7:55:41 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/18/2023 7:55:41 PM
Surr: DNOP	78.6	69-147		%Rec	1	1/18/2023 7:55:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/19/2023 3:43:59 PM
Surr: BFB	106	37.7-212		%Rec	1	1/19/2023 3:43:59 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	1/18/2023 11:16:04 PM
Toluene	ND	0.049		mg/Kg	1	1/18/2023 11:16:04 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/18/2023 11:16:04 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/18/2023 11:16:04 PM
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	1/18/2023 11:16:04 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	6000	300		mg/Kg	100	1/18/2023 10:15:35 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-19 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 11:00:00 AM
Lab ID: 2301573-018 **Matrix:** SOIL
Received Date: 1/17/2023 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	9.0		mg/Kg	1	1/18/2023 8:06:13 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/18/2023 8:06:13 PM
Surr: DNOP	81.4	69-147		%Rec	1	1/18/2023 8:06:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/19/2023 4:07:23 PM
Surr: BFB	108	37.7-212		%Rec	1	1/19/2023 4:07:23 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	1/18/2023 11:39:16 PM
Toluene	ND	0.049		mg/Kg	1	1/18/2023 11:39:16 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/18/2023 11:39:16 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/18/2023 11:39:16 PM
Surr: 4-Bromofluorobenzene	94.7	70-130		%Rec	1	1/18/2023 11:39:16 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	9700	600		mg/Kg	200	1/18/2023 10:27:56 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-20 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 11:05:00 AM
Lab ID: 2301573-019 **Matrix:** SOIL
Received Date: 1/17/2023 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	10		mg/Kg	1	1/18/2023 8:16:43 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/18/2023 8:16:43 PM
Surr: DNOP	83.0	69-147		%Rec	1	1/18/2023 8:16:43 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/19/2023 4:30:52 PM
Surr: BFB	105	37.7-212		%Rec	1	1/19/2023 4:30:52 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	1/19/2023 12:02:27 AM
Toluene	ND	0.048		mg/Kg	1	1/19/2023 12:02:27 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/19/2023 12:02:27 AM
Xylenes, Total	ND	0.096		mg/Kg	1	1/19/2023 12:02:27 AM
Surr: 4-Bromofluorobenzene	96.4	70-130		%Rec	1	1/19/2023 12:02:27 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	760	60		mg/Kg	20	1/18/2023 1:08:05 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-21 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 11:10:00 AM
Lab ID: 2301573-020 **Matrix:** SOIL
Received Date: 1/17/2023 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	8.9		mg/Kg	1	1/18/2023 8:27:14 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/18/2023 8:27:14 PM
Surr: DNOP	76.9	69-147		%Rec	1	1/18/2023 8:27:14 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/19/2023 4:54:25 PM
Surr: BFB	104	37.7-212		%Rec	1	1/19/2023 4:54:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	1/19/2023 12:25:37 AM
Toluene	ND	0.048		mg/Kg	1	1/19/2023 12:25:37 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/19/2023 12:25:37 AM
Xylenes, Total	ND	0.096		mg/Kg	1	1/19/2023 12:25:37 AM
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	1/19/2023 12:25:37 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	4600	150		mg/Kg	50	1/18/2023 10:40:17 AM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-22 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 11:15:00 AM
Lab ID: 2301573-021 **Matrix:** SOIL
Received Date: 1/17/2023 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	9.8		mg/Kg	1	1/18/2023 8:37:49 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/18/2023 8:37:49 PM
Surr: DNOP	69.5	69-147		%Rec	1	1/18/2023 8:37:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/19/2023 5:17:54 PM
Surr: BFB	108	37.7-212		%Rec	1	1/19/2023 5:17:54 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	1/19/2023 12:48:47 AM
Toluene	ND	0.048		mg/Kg	1	1/19/2023 12:48:47 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/19/2023 12:48:47 AM
Xylenes, Total	ND	0.096		mg/Kg	1	1/19/2023 12:48:47 AM
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	1/19/2023 12:48:47 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	5000	300		mg/Kg	100	1/18/2023 10:52:38 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-23 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 11:20:00 AM
Lab ID: 2301573-022 **Matrix:** SOIL
Received Date: 1/17/2023 7:45:00 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	1/19/2023 11:30:28 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/19/2023 11:30:28 AM
Surr: DNOP	90.0	69-147		%Rec	1	1/19/2023 11:30:28 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/19/2023 5:41:25 PM
Surr: BFB	105	37.7-212		%Rec	1	1/19/2023 5:41:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	1/19/2023 1:11:52 AM
Toluene	ND	0.048		mg/Kg	1	1/19/2023 1:11:52 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/19/2023 1:11:52 AM
Xylenes, Total	ND	0.096		mg/Kg	1	1/19/2023 1:11:52 AM
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	1/19/2023 1:11:52 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	1600	60		mg/Kg	20	1/18/2023 1:45:07 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-24 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 11:25:00 AM
Lab ID: 2301573-023 **Matrix:** SOIL **Received Date:** 1/17/2023 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	1/18/2023 8:58:55 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/18/2023 8:58:55 PM
Surr: DNOP	70.1	69-147		%Rec	1	1/18/2023 8:58:55 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/19/2023 6:04:54 PM
Surr: BFB	105	37.7-212		%Rec	1	1/19/2023 6:04:54 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	1/19/2023 1:58:08 AM
Toluene	ND	0.048		mg/Kg	1	1/19/2023 1:58:08 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/19/2023 1:58:08 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/19/2023 1:58:08 AM
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	1	1/19/2023 1:58:08 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	8000	600		mg/Kg	200	1/18/2023 11:29:40 AM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-25 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 11:30:00 AM
Lab ID: 2301573-024 **Matrix:** SOIL
Received Date: 1/17/2023 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	1/18/2023 9:09:27 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/18/2023 9:09:27 PM
Surr: DNOP	72.7	69-147		%Rec	1	1/18/2023 9:09:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/19/2023 6:28:22 PM
Surr: BFB	103	37.7-212		%Rec	1	1/19/2023 6:28:22 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	1/19/2023 2:21:13 AM
Toluene	ND	0.049		mg/Kg	1	1/19/2023 2:21:13 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/19/2023 2:21:13 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/19/2023 2:21:13 AM
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	1/19/2023 2:21:13 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	6500	300		mg/Kg	100	1/18/2023 11:42:01 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-26 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 11:35:00 AM
Lab ID: 2301573-025 **Matrix:** SOIL
Received Date: 1/17/2023 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	9.7		mg/Kg	1	1/18/2023 9:19:59 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/18/2023 9:19:59 PM
Surr: DNOP	80.4	69-147		%Rec	1	1/18/2023 9:19:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/19/2023 6:51:49 PM
Surr: BFB	105	37.7-212		%Rec	1	1/19/2023 6:51:49 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	1/19/2023 2:44:16 AM
Toluene	ND	0.048		mg/Kg	1	1/19/2023 2:44:16 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/19/2023 2:44:16 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/19/2023 2:44:16 AM
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	1/19/2023 2:44:16 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	4100	150		mg/Kg	50	1/18/2023 11:54:22 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-27 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 11:40:00 AM
Lab ID: 2301573-026 **Matrix:** SOIL
Received Date: 1/17/2023 7:45:00 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	1/19/2023 11:54:05 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/19/2023 11:54:05 AM
Surr: DNOP	91.4	69-147		%Rec	1	1/19/2023 11:54:05 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/19/2023 7:15:14 PM
Surr: BFB	105	37.7-212		%Rec	1	1/19/2023 7:15:14 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	1/19/2023 3:07:19 AM
Toluene	ND	0.048		mg/Kg	1	1/19/2023 3:07:19 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/19/2023 3:07:19 AM
Xylenes, Total	ND	0.096		mg/Kg	1	1/19/2023 3:07:19 AM
Surr: 4-Bromofluorobenzene	94.7	70-130		%Rec	1	1/19/2023 3:07:19 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	3500	150		mg/Kg	50	1/18/2023 12:06:43 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-28 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 11:45:00 AM
Lab ID: 2301573-027 **Matrix:** SOIL
Received Date: 1/17/2023 7:45:00 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	1/19/2023 12:17:50 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/19/2023 12:17:50 PM
Surr: DNOP	112	69-147		%Rec	1	1/19/2023 12:17:50 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/19/2023 7:38:43 PM
Surr: BFB	103	37.7-212		%Rec	1	1/19/2023 7:38:43 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	1/19/2023 3:30:21 AM
Toluene	ND	0.049		mg/Kg	1	1/19/2023 3:30:21 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/19/2023 3:30:21 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/19/2023 3:30:21 AM
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	1	1/19/2023 3:30:21 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	7600	300		mg/Kg	100	1/18/2023 12:19:04 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-29 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 11:50:00 AM
Lab ID: 2301573-028 **Matrix:** SOIL
Received Date: 1/17/2023 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	9.7		mg/Kg	1	1/18/2023 9:51:28 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/18/2023 9:51:28 PM
Surr: DNOP	72.8	69-147		%Rec	1	1/18/2023 9:51:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/19/2023 8:02:05 PM
Surr: BFB	104	37.7-212		%Rec	1	1/19/2023 8:02:05 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	1/19/2023 3:53:28 AM
Toluene	ND	0.048		mg/Kg	1	1/19/2023 3:53:28 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/19/2023 3:53:28 AM
Xylenes, Total	ND	0.096		mg/Kg	1	1/19/2023 3:53:28 AM
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	1/19/2023 3:53:28 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	10000	600		mg/Kg	200	1/18/2023 12:31:24 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-30 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 11:55:00 AM
Lab ID: 2301573-029 **Matrix:** SOIL
Received Date: 1/17/2023 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)	11	9.1		mg/Kg	1	1/18/2023 10:33:30 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/18/2023 10:33:30 PM
Surr: DNOP	70.9	69-147		%Rec	1	1/18/2023 10:33:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/19/2023 10:33:00 AM
Surr: BFB	93.9	37.7-212		%Rec	1	1/19/2023 10:33:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	1/19/2023 10:33:00 AM
Toluene	ND	0.049		mg/Kg	1	1/19/2023 10:33:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/19/2023 10:33:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/19/2023 10:33:00 AM
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	1/19/2023 10:33:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	3000	150		mg/Kg	50	1/19/2023 10:21:15 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-31 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 12:00:00 PM
Lab ID: 2301573-030 **Matrix:** SOIL
Received Date: 1/17/2023 7:45:00 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	1/19/2023 12:41:35 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/19/2023 12:41:35 PM
Surr: DNOP	90.6	69-147		%Rec	1	1/19/2023 12:41:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/19/2023 11:32:00 AM
Surr: BFB	103	37.7-212		%Rec	1	1/19/2023 11:32:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	1/19/2023 11:32:00 AM
Toluene	ND	0.049		mg/Kg	1	1/19/2023 11:32:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/19/2023 11:32:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/19/2023 11:32:00 AM
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	1/19/2023 11:32:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	1500	60		mg/Kg	20	1/18/2023 2:35:13 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-32 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 12:05:00 PM
Lab ID: 2301573-031 **Matrix:** SOIL
Received Date: 1/17/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	1/19/2023 1:05:23 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	1/19/2023 1:05:23 PM
Surr: DNOP	95.8	69-147		%Rec	1	1/19/2023 1:05:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/19/2023 12:31:00 PM
Surr: BFB	96.2	37.7-212		%Rec	1	1/19/2023 12:31:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	1/19/2023 12:31:00 PM
Toluene	ND	0.049		mg/Kg	1	1/19/2023 12:31:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/19/2023 12:31:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/19/2023 12:31:00 PM
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	1/19/2023 12:31:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	200	60		mg/Kg	20	1/18/2023 3:12:15 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-33 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 12:10:00 PM
Lab ID: 2301573-032 **Matrix:** SOIL
Received Date: 1/17/2023 7:45:00 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	1/19/2023 1:29:05 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/19/2023 1:29:05 PM
Surr: DNOP	110	69-147		%Rec	1	1/19/2023 1:29:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/19/2023 12:50:00 PM
Surr: BFB	94.1	37.7-212		%Rec	1	1/19/2023 12:50:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	1/19/2023 12:50:00 PM
Toluene	ND	0.049		mg/Kg	1	1/19/2023 12:50:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/19/2023 12:50:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/19/2023 12:50:00 PM
Surr: 4-Bromofluorobenzene	96.4	70-130		%Rec	1	1/19/2023 12:50:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	5400	300		mg/Kg	100	1/19/2023 10:33:35 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-34 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 12:15:00 PM
Lab ID: 2301573-033 **Matrix:** SOIL
Received Date: 1/17/2023 7:45:00 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	1/19/2023 1:52:48 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/19/2023 1:52:48 PM
Surr: DNOP	96.7	69-147		%Rec	1	1/19/2023 1:52:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/19/2023 1:10:00 PM
Surr: BFB	94.3	37.7-212		%Rec	1	1/19/2023 1:10:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	1/19/2023 1:10:00 PM
Toluene	ND	0.050		mg/Kg	1	1/19/2023 1:10:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/19/2023 1:10:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/19/2023 1:10:00 PM
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	1/19/2023 1:10:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	9000	300		mg/Kg	100	1/19/2023 10:45:56 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-35 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 12:20:00 PM
Lab ID: 2301573-034 **Matrix:** SOIL **Received Date:** 1/17/2023 7:45:00 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	1/19/2023 2:16:34 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/19/2023 2:16:34 PM
Surr: DNOP	96.3	69-147		%Rec	1	1/19/2023 2:16:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/19/2023 1:30:00 PM
Surr: BFB	95.2	37.7-212		%Rec	1	1/19/2023 1:30:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	1/19/2023 1:30:00 PM
Toluene	ND	0.050		mg/Kg	1	1/19/2023 1:30:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/19/2023 1:30:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/19/2023 1:30:00 PM
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	1/19/2023 1:30:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	3300	150		mg/Kg	50	1/19/2023 10:58:17 AM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-36 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/13/2023 12:25:00 PM
Lab ID: 2301573-035 **Matrix:** SOIL
Received Date: 1/17/2023 7:45:00 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	1/19/2023 2:40:28 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/19/2023 2:40:28 PM
Surr: DNOP	86.2	69-147		%Rec	1	1/19/2023 2:40:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/19/2023 1:49:00 PM
Surr: BFB	99.3	37.7-212		%Rec	1	1/19/2023 1:49:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	1/19/2023 1:49:00 PM
Toluene	ND	0.049		mg/Kg	1	1/19/2023 1:49:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/19/2023 1:49:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/19/2023 1:49:00 PM
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	1	1/19/2023 1:49:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	2200	60		mg/Kg	20	1/18/2023 4:51:02 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-37 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/14/2023 9:20:00 AM
Lab ID: 2301573-036 **Matrix:** SOIL
Received Date: 1/17/2023 7:45:00 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	1/19/2023 3:04:15 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/19/2023 3:04:15 PM
Surr: DNOP	108	69-147		%Rec	1	1/19/2023 3:04:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/19/2023 2:09:00 PM
Surr: BFB	103	37.7-212		%Rec	1	1/19/2023 2:09:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	1/19/2023 2:09:00 PM
Toluene	ND	0.049		mg/Kg	1	1/19/2023 2:09:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/19/2023 2:09:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/19/2023 2:09:00 PM
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	1/19/2023 2:09:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	1600	60		mg/Kg	20	1/18/2023 5:03:23 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-38 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/14/2023 9:25:00 AM
Lab ID: 2301573-037 **Matrix:** SOIL
Received Date: 1/17/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	1/19/2023 3:28:06 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/19/2023 3:28:06 PM
Surr: DNOP	110	69-147		%Rec	1	1/19/2023 3:28:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/19/2023 2:29:00 PM
Surr: BFB	95.0	37.7-212		%Rec	1	1/19/2023 2:29:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	1/19/2023 2:29:00 PM
Toluene	ND	0.049		mg/Kg	1	1/19/2023 2:29:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/19/2023 2:29:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/19/2023 2:29:00 PM
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	1/19/2023 2:29:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	2000	60		mg/Kg	20	1/18/2023 5:15:44 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-39 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/14/2023 9:30:00 AM
Lab ID: 2301573-038 **Matrix:** SOIL
Received Date: 1/17/2023 7:45:00 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	1/19/2023 3:51:51 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/19/2023 3:51:51 PM
Surr: DNOP	97.4	69-147		%Rec	1	1/19/2023 3:51:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/19/2023 2:49:00 PM
Surr: BFB	94.2	37.7-212		%Rec	1	1/19/2023 2:49:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	1/19/2023 2:49:00 PM
Toluene	ND	0.050		mg/Kg	1	1/19/2023 2:49:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/19/2023 2:49:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/19/2023 2:49:00 PM
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	1/19/2023 2:49:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	2000	60		mg/Kg	20	1/18/2023 5:28:04 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-40 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/14/2023 9:35:00 AM
Lab ID: 2301573-039 **Matrix:** SOIL
Received Date: 1/17/2023 7:45:00 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	1/19/2023 4:15:38 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/19/2023 4:15:38 PM
Surr: DNOP	104	69-147		%Rec	1	1/19/2023 4:15:38 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/19/2023 3:28:00 PM
Surr: BFB	92.8	37.7-212		%Rec	1	1/19/2023 3:28:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	1/19/2023 3:28:00 PM
Toluene	ND	0.050		mg/Kg	1	1/19/2023 3:28:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/19/2023 3:28:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/19/2023 3:28:00 PM
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	1	1/19/2023 3:28:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	5100	150		mg/Kg	50	1/19/2023 11:10:37 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-41 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/14/2023 9:40:00 AM
Lab ID: 2301573-040 **Matrix:** SOIL
Received Date: 1/17/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/19/2023 4:39:20 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/19/2023 4:39:20 PM
Surr: DNOP	93.8	69-147		%Rec	1	1/19/2023 4:39:20 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/19/2023 3:48:00 PM
Surr: BFB	88.9	37.7-212		%Rec	1	1/19/2023 3:48:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	1/19/2023 3:48:00 PM
Toluene	ND	0.050		mg/Kg	1	1/19/2023 3:48:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/19/2023 3:48:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/19/2023 3:48:00 PM
Surr: 4-Bromofluorobenzene	90.3	70-130		%Rec	1	1/19/2023 3:48:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	9800	590		mg/Kg	200	1/19/2023 11:22:57 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-42 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/14/2023 9:45:00 AM
Lab ID: 2301573-041 **Matrix:** SOIL
Received Date: 1/17/2023 7:45:00 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	1/19/2023 5:03:08 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/19/2023 5:03:08 PM
Surr: DNOP	120	69-147		%Rec	1	1/19/2023 5:03:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/19/2023 4:07:00 PM
Surr: BFB	89.4	37.7-212		%Rec	1	1/19/2023 4:07:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	1/19/2023 4:07:00 PM
Toluene	ND	0.049		mg/Kg	1	1/19/2023 4:07:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/19/2023 4:07:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/19/2023 4:07:00 PM
Surr: 4-Bromofluorobenzene	91.9	70-130		%Rec	1	1/19/2023 4:07:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	400	60		mg/Kg	20	1/18/2023 6:05:06 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-43 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/14/2023 9:50:00 AM
Lab ID: 2301573-042 **Matrix:** SOIL **Received Date:** 1/17/2023 7:45:00 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	1/19/2023 5:26:53 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/19/2023 5:26:53 PM
Surr: DNOP	112	69-147		%Rec	1	1/19/2023 5:26:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/19/2023 4:27:00 PM
Surr: BFB	90.3	37.7-212		%Rec	1	1/19/2023 4:27:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	1/19/2023 4:27:00 PM
Toluene	ND	0.049		mg/Kg	1	1/19/2023 4:27:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/19/2023 4:27:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/19/2023 4:27:00 PM
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	1/19/2023 4:27:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	4000	150		mg/Kg	50	1/19/2023 11:35:17 AM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-44 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/14/2023 9:55:00 AM
Lab ID: 2301573-043 **Matrix:** SOIL
Received Date: 1/17/2023 7:45:00 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	1/19/2023 5:50:26 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/19/2023 5:50:26 PM
Surr: DNOP	91.3	69-147		%Rec	1	1/19/2023 5:50:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/19/2023 4:46:00 PM
Surr: BFB	92.8	37.7-212		%Rec	1	1/19/2023 4:46:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	1/19/2023 4:46:00 PM
Toluene	ND	0.048		mg/Kg	1	1/19/2023 4:46:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/19/2023 4:46:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/19/2023 4:46:00 PM
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	1/19/2023 4:46:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	5400	300		mg/Kg	100	1/19/2023 11:47:39 AM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-45 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/14/2023 10:00:00 AM
Lab ID: 2301573-044 **Matrix:** SOIL
Received Date: 1/17/2023 7:45:00 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	1/19/2023 6:13:52 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/19/2023 6:13:52 PM
Surr: DNOP	106	69-147		%Rec	1	1/19/2023 6:13:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/19/2023 5:06:00 PM
Surr: BFB	97.0	37.7-212		%Rec	1	1/19/2023 5:06:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	1/19/2023 5:06:00 PM
Toluene	ND	0.048		mg/Kg	1	1/19/2023 5:06:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/19/2023 5:06:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/19/2023 5:06:00 PM
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	1/19/2023 5:06:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	1400	59		mg/Kg	20	1/18/2023 7:06:50 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-46 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/14/2023 10:05:00 AM
Lab ID: 2301573-045 **Matrix:** SOIL **Received Date:** 1/17/2023 7:45:00 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	1/19/2023 6:37:15 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/19/2023 6:37:15 PM
Surr: DNOP	90.4	69-147		%Rec	1	1/19/2023 6:37:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/19/2023 5:26:00 PM
Surr: BFB	94.2	37.7-212		%Rec	1	1/19/2023 5:26:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	1/19/2023 5:26:00 PM
Toluene	ND	0.050		mg/Kg	1	1/19/2023 5:26:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/19/2023 5:26:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/19/2023 5:26:00 PM
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	1/19/2023 5:26:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	2100	60		mg/Kg	20	1/18/2023 7:19:10 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-47 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/14/2023 10:10:00 AM
Lab ID: 2301573-046 **Matrix:** SOIL
Received Date: 1/17/2023 7:45:00 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	1/19/2023 7:00:36 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/19/2023 7:00:36 PM
Surr: DNOP	106	69-147		%Rec	1	1/19/2023 7:00:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/19/2023 5:46:00 PM
Surr: BFB	88.7	37.7-212		%Rec	1	1/19/2023 5:46:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	1/19/2023 5:46:00 PM
Toluene	ND	0.049		mg/Kg	1	1/19/2023 5:46:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/19/2023 5:46:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/19/2023 5:46:00 PM
Surr: 4-Bromofluorobenzene	92.2	70-130		%Rec	1	1/19/2023 5:46:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	1000	61		mg/Kg	20	1/18/2023 7:31:31 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-48 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/14/2023 10:15:00 AM
Lab ID: 2301573-047 **Matrix:** SOIL
Received Date: 1/17/2023 7:45:00 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	1/19/2023 7:24:09 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/19/2023 7:24:09 PM
Surr: DNOP	112	69-147		%Rec	1	1/19/2023 7:24:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/19/2023 6:05:00 PM
Surr: BFB	96.3	37.7-212		%Rec	1	1/19/2023 6:05:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	1/19/2023 6:05:00 PM
Toluene	ND	0.049		mg/Kg	1	1/19/2023 6:05:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/19/2023 6:05:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/19/2023 6:05:00 PM
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	1/19/2023 6:05:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	310	60		mg/Kg	20	1/18/2023 7:43:52 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-49 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/14/2023 10:20:00 AM
Lab ID: 2301573-048 **Matrix:** SOIL **Received Date:** 1/17/2023 7:45:00 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	1/19/2023 7:47:45 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/19/2023 7:47:45 PM
Surr: DNOP	101	69-147		%Rec	1	1/19/2023 7:47:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/19/2023 6:25:00 PM
Surr: BFB	91.7	37.7-212		%Rec	1	1/19/2023 6:25:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	1/19/2023 6:25:00 PM
Toluene	ND	0.049		mg/Kg	1	1/19/2023 6:25:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/19/2023 6:25:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/19/2023 6:25:00 PM
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	1/19/2023 6:25:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	98	60		mg/Kg	20	1/18/2023 7:56:12 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-50 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/14/2023 10:25:00 AM
Lab ID: 2301573-049 **Matrix:** SOIL **Received Date:** 1/17/2023 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	10		mg/Kg	1	1/20/2023 12:19:02 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/20/2023 12:19:02 AM
Surr: DNOP	84.7	69-147		%Rec	1	1/20/2023 12:19:02 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/18/2023 10:07:00 PM
Surr: BFB	94.3	37.7-212		%Rec	1	1/18/2023 10:07:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	1/18/2023 10:07:00 PM
Toluene	ND	0.049		mg/Kg	1	1/18/2023 10:07:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/18/2023 10:07:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/18/2023 10:07:00 PM
Surr: 4-Bromofluorobenzene	93.5	70-130		%Rec	1	1/18/2023 10:07:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	230	60		mg/Kg	20	1/19/2023 12:15:24 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-51 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/14/2023 10:30:00 AM
Lab ID: 2301573-050 **Matrix:** SOIL
Received Date: 1/17/2023 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	9.1		mg/Kg	1	1/20/2023 12:39:56 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/20/2023 12:39:56 AM
Surr: DNOP	85.9	69-147		%Rec	1	1/20/2023 12:39:56 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/18/2023 11:06:00 PM
Surr: BFB	87.5	37.7-212		%Rec	1	1/18/2023 11:06:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	1/18/2023 11:06:00 PM
Toluene	ND	0.048		mg/Kg	1	1/18/2023 11:06:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/18/2023 11:06:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/18/2023 11:06:00 PM
Surr: 4-Bromofluorobenzene	88.7	70-130		%Rec	1	1/18/2023 11:06:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	570	60		mg/Kg	20	1/19/2023 12:27:44 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-52 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/14/2023 10:35:00 AM
Lab ID: 2301573-051 **Matrix:** SOIL
Received Date: 1/17/2023 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	9.8		mg/Kg	1	1/20/2023 12:50:25 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/20/2023 12:50:25 AM
Surr: DNOP	88.4	69-147		%Rec	1	1/20/2023 12:50:25 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/18/2023 11:25:00 PM
Surr: BFB	92.0	37.7-212		%Rec	1	1/18/2023 11:25:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	1/18/2023 11:25:00 PM
Toluene	ND	0.049		mg/Kg	1	1/18/2023 11:25:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/18/2023 11:25:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/18/2023 11:25:00 PM
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	1/18/2023 11:25:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	4900	300		mg/Kg	100	1/19/2023 11:59:59 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-53 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/14/2023 10:40:00 AM
Lab ID: 2301573-052 **Matrix:** SOIL
Received Date: 1/17/2023 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	9.0		mg/Kg	1	1/20/2023 2:46:54 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/20/2023 2:46:54 PM
Surr: DNOP	73.4	69-147		%Rec	1	1/20/2023 2:46:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/18/2023 11:45:00 PM
Surr: BFB	91.7	37.7-212		%Rec	1	1/18/2023 11:45:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.023		mg/Kg	1	1/18/2023 11:45:00 PM
Toluene	ND	0.047		mg/Kg	1	1/18/2023 11:45:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/18/2023 11:45:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	1/18/2023 11:45:00 PM
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	1/18/2023 11:45:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	2400	60		mg/Kg	20	1/19/2023 12:52:25 AM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-54 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/14/2023 10:45:00 AM
Lab ID: 2301573-053 **Matrix:** SOIL **Received Date:** 1/17/2023 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	1/20/2023 1:11:23 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/20/2023 1:11:23 AM
Surr: DNOP	90.7	69-147		%Rec	1	1/20/2023 1:11:23 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/19/2023 12:04:00 AM
Surr: BFB	98.1	37.7-212		%Rec	1	1/19/2023 12:04:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.023		mg/Kg	1	1/19/2023 12:04:00 AM
Toluene	ND	0.046		mg/Kg	1	1/19/2023 12:04:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	1/19/2023 12:04:00 AM
Xylenes, Total	ND	0.091		mg/Kg	1	1/19/2023 12:04:00 AM
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	1/19/2023 12:04:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	4200	150		mg/Kg	50	1/19/2023 12:12:19 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301573**
Date Reported: **1/27/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-15 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/14/2023 12:30:00 PM
Lab ID: 2301573-054 **Matrix:** SOIL **Received Date:** 1/17/2023 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	9.8		mg/Kg	1	1/20/2023 1:21:47 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/20/2023 1:21:47 AM
Surr: DNOP	101	69-147		%Rec	1	1/20/2023 1:21:47 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/19/2023 12:24:00 AM
Surr: BFB	97.0	37.7-212		%Rec	1	1/19/2023 12:24:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.023		mg/Kg	1	1/19/2023 12:24:00 AM
Toluene	ND	0.046		mg/Kg	1	1/19/2023 12:24:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	1/19/2023 12:24:00 AM
Xylenes, Total	ND	0.091		mg/Kg	1	1/19/2023 12:24:00 AM
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	1/19/2023 12:24:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	17000	600		mg/Kg	200	1/19/2023 12:49:20 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 Quanitative 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#: **2301573**

27-Jan-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **MB-72659** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **72659** RunNo: **94007**
Prep Date: **1/17/2023** Analysis Date: **1/17/2023** SeqNo: **3393988** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-72659** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **72659** RunNo: **94007**
Prep Date: **1/17/2023** Analysis Date: **1/17/2023** SeqNo: **3393989** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	90	110			

Sample ID: **MB-72661** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **72661** RunNo: **94007**
Prep Date: **1/17/2023** Analysis Date: **1/17/2023** SeqNo: **3393990** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-72661** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **72661** RunNo: **94007**
Prep Date: **1/17/2023** Analysis Date: **1/17/2023** SeqNo: **3393991** 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-72668** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **72668** RunNo: **94056**
Prep Date: **1/17/2023** Analysis Date: **1/18/2023** SeqNo: **3395598** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-72668** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **72668** RunNo: **94056**
Prep Date: **1/17/2023** Analysis Date: **1/18/2023** SeqNo: **3395599** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.2	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2301573**
27-Jan-23

Client: Vertex Resources Services, Inc.
Project: Todd 36 State 1 Pasture

Sample ID: **MB-72686**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **72686**	RunNo: **94056**							
Prep Date: **1/18/2023**	Analysis Date: **1/18/2023**	SeqNo: **3395603**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-72686**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **72686**	RunNo: **94056**							
Prep Date: **1/18/2023**	Analysis Date: **1/18/2023**	SeqNo: **3395604**	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2301573**
27-Jan-23

Client: Vertex Resources Services, Inc.
Project: Todd 36 State 1 Pasture

Sample ID: **LCS-72651** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **72651** RunNo: **94027**
Prep Date: **1/17/2023** Analysis Date: **1/18/2023** SeqNo: **3394468** 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	88.9	61.9	130			
Surr: DNOP	5.6		5.000		112	69	147			

Sample ID: **MB-72651** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **72651** RunNo: **94027**
Prep Date: **1/17/2023** Analysis Date: **1/18/2023** SeqNo: **3394470** 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: **2301573-009AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BES23-09 4'** Batch ID: **72663** RunNo: **94027**
Prep Date: **1/17/2023** Analysis Date: **1/18/2023** SeqNo: **3395203** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	49.80	0	94.4	54.2	135			
Surr: DNOP	5.4		4.980		108	69	147			

Sample ID: **2301573-009AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BES23-09 4'** Batch ID: **72663** RunNo: **94027**
Prep Date: **1/17/2023** Analysis Date: **1/18/2023** SeqNo: **3395204** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.9	49.36	0	95.5	54.2	135	0.252	29.2	
Surr: DNOP	4.5		4.936		90.3	69	147	0	0	

Sample ID: **2301573-029AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BES23-30 4'** Batch ID: **72669** RunNo: **94027**
Prep Date: **1/17/2023** Analysis Date: **1/18/2023** SeqNo: **3395225** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.6	48.12	10.68	69.3	54.2	135			
Surr: DNOP	3.8		4.812		78.5	69	147			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2301573**
27-Jan-23

Client: Vertex Resources Services, Inc.
Project: Todd 36 State 1 Pasture

Sample ID: **2301573-029AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BES23-30 4'** Batch ID: **72669** RunNo: **94027**
Prep Date: **1/17/2023** Analysis Date: **1/18/2023** SeqNo: **3395226** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	9.5	47.57	10.68	60.5	54.2	135	10.9	29.2	
Surr: DNOP	3.3		4.757		70.3	69	147	0	0	

Sample ID: **LCS-72663** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **72663** RunNo: **94027**
Prep Date: **1/17/2023** Analysis Date: **1/18/2023** SeqNo: **3395246** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	10	50.00	0	121	61.9	130			
Surr: DNOP	6.5		5.000		130	69	147			

Sample ID: **LCS-72669** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **72669** RunNo: **94027**
Prep Date: **1/17/2023** Analysis Date: **1/18/2023** SeqNo: **3395247** 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	88.1	61.9	130			
Surr: DNOP	3.5		5.000		70.9	69	147			

Sample ID: **MB-72663** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **72663** RunNo: **94027**
Prep Date: **1/17/2023** Analysis Date: **1/18/2023** SeqNo: **3395248** 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	9.6		10.00		95.8	69	147			

Sample ID: **MB-72669** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **72669** RunNo: **94027**
Prep Date: **1/17/2023** Analysis Date: **1/18/2023** SeqNo: **3395249** 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		86.6	69	147			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2301573**
27-Jan-23

Client: Vertex Resources Services, Inc.
Project: Todd 36 State 1 Pasture

Sample ID: **LCS-72679** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **72679** RunNo: **94064**
Prep Date: **1/18/2023** Analysis Date: **1/19/2023** SeqNo: **3395762** 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	5.9		5.000		118	69	147			

Sample ID: **MB-72679** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **72679** RunNo: **94064**
Prep Date: **1/18/2023** Analysis Date: **1/19/2023** SeqNo: **3395766** 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			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2301573**
27-Jan-23

Client: Vertex Resources Services, Inc.
Project: Todd 36 State 1 Pasture

Sample ID: **lcs-72649** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **72649** RunNo: **94040**
Prep Date: **1/17/2023** Analysis Date: **1/18/2023** SeqNo: **3394797** 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	83.7	72.3	137			
Surr: BFB	2000		1000		200	37.7	212			

Sample ID: **mb-72649** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **72649** RunNo: **94040**
Prep Date: **1/17/2023** Analysis Date: **1/18/2023** SeqNo: **3394799** 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		96.0	37.7	212			

Sample ID: **lcs-72664** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **72664** RunNo: **94040**
Prep Date: **1/17/2023** Analysis Date: **1/18/2023** SeqNo: **3394826** 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	90.4	72.3	137			
Surr: BFB	2100		1000		210	37.7	212			

Sample ID: **mb-72664** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **72664** RunNo: **94040**
Prep Date: **1/17/2023** Analysis Date: **1/18/2023** SeqNo: **3394827** 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	910		1000		91.0	37.7	212			

Sample ID: **lcs-72652** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **72652** RunNo: **94015**
Prep Date: **1/17/2023** Analysis Date: **1/18/2023** SeqNo: **3394869** 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	89.5	72.3	137			
Surr: BFB	2000		1000		201	37.7	212			

Sample ID: **mb-72652** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **72652** RunNo: **94015**
Prep Date: **1/17/2023** Analysis Date: **1/18/2023** SeqNo: **3394870** 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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2301573**
27-Jan-23

Client: Vertex Resources Services, Inc.
Project: Todd 36 State 1 Pasture

Sample ID: **mb-72652**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **72652**	RunNo: **94015**
Prep Date: **1/17/2023**	Analysis Date: **1/18/2023**	SeqNo: **3394870** 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		105	37.7	212			

Sample ID: **2301573-009ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BES23-09 4'**	Batch ID: **72652**	RunNo: **94015**
Prep Date: **1/17/2023**	Analysis Date: **1/18/2023**	SeqNo: **3394903** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.70	0	93.6	70	130			
Surr: BFB	2000		988.1		202	37.7	212			

Sample ID: **2301573-009amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BES23-09 4'**	Batch ID: **72652**	RunNo: **94015**
Prep Date: **1/17/2023**	Analysis Date: **1/18/2023**	SeqNo: **3394904** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.53	0	94.1	70	130	0.0926	20	
Surr: BFB	2000		981.4		206	37.7	212	0	0	

Sample ID: **lcs-72654**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **72654**	RunNo: **94091**
Prep Date: **1/17/2023**	Analysis Date: **1/19/2023**	SeqNo: **3397062** 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	89.0	72.3	137			
Surr: BFB	2100		1000		210	37.7	212			

Sample ID: **mb-72654**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **72654**	RunNo: **94091**
Prep Date: **1/17/2023**	Analysis Date: **1/19/2023**	SeqNo: **3397063** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		93.2	37.7	212			

Sample ID: **2301573-029ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BES23-30 4'**	Batch ID: **72654**	RunNo: **94091**
Prep Date: **1/17/2023**	Analysis Date: **1/19/2023**	SeqNo: **3397065** 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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2301573**

27-Jan-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **2301573-029ams** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **BES23-30 4'** Batch ID: **72654** RunNo: **94091**

Prep Date: **1/17/2023** Analysis Date: **1/19/2023** SeqNo: **3397065** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.9	24.73	0	86.8	70	130			
Surr: BFB	2100		989.1		213	37.7	212			S

Sample ID: **2301573-029amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **BES23-30 4'** Batch ID: **72654** RunNo: **94091**

Prep Date: **1/17/2023** Analysis Date: **1/19/2023** SeqNo: **3397066** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.63	0	91.3	70	130	4.59	20	
Surr: BFB	2100		985.2		217	37.7	212	0	0	S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
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#: **2301573**

27-Jan-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **2301573-010ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **BES23-10 4'** Batch ID: **72652** RunNo: **94015**

Prep Date: **1/17/2023** Analysis Date: **1/18/2023** SeqNo: **3395002** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.024	0.9747	0	92.8	68.8	120			
Toluene	0.94	0.049	0.9747	0.01665	94.8	73.6	124			
Ethylbenzene	0.95	0.049	0.9747	0	97.7	72.7	129			
Xylenes, Total	2.9	0.097	2.924	0.02811	97.8	75.7	126			
Surr: 4-Bromofluorobenzene	0.98		0.9747		100	70	130			

Sample ID: **2301573-010amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **BES23-10 4'** Batch ID: **72652** RunNo: **94015**

Prep Date: **1/17/2023** Analysis Date: **1/18/2023** SeqNo: **3395003** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.024	0.9775	0	94.5	68.8	120	2.05	20	
Toluene	0.97	0.049	0.9775	0.01665	97.1	73.6	124	2.62	20	
Ethylbenzene	0.99	0.049	0.9775	0	101	72.7	129	3.45	20	
Xylenes, Total	3.0	0.098	2.933	0.02811	101	75.7	126	3.04	20	
Surr: 4-Bromofluorobenzene	0.97		0.9775		99.7	70	130	0	0	

Sample ID: **LCS-72652** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **72652** RunNo: **94015**

Prep Date: **1/17/2023** Analysis Date: **1/18/2023** SeqNo: **3395041** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.9	80	120			
Toluene	0.91	0.050	1.000	0	91.2	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.3	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.7	70	130			

Sample ID: **mb-72652** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **72652** RunNo: **94015**

Prep Date: **1/17/2023** Analysis Date: **1/18/2023** SeqNo: **3395044** 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	0.96		1.000		96.3	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2301573**
27-Jan-23

Client: Vertex Resources Services, Inc.
Project: Todd 36 State 1 Pasture

Sample ID: **lcs-72649**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **72649**	RunNo: **94040**							
Prep Date: **1/17/2023**	Analysis Date: **1/18/2023**	SeqNo: **3395112**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.0	80	120			
Toluene	0.96	0.050	1.000	0	96.1	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.9	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.5	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.5	70	130			

Sample ID: **mb-72649**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **PBS**	Batch ID: **72649**	RunNo: **94040**							
Prep Date: **1/17/2023**	Analysis Date: **1/18/2023**	SeqNo: **3395113**	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	0.93		1.000		93.3	70	130			

Sample ID: **lcs-72664**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **72664**	RunNo: **94040**							
Prep Date: **1/17/2023**	Analysis Date: **1/18/2023**	SeqNo: **3395136**	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	88.4	80	120			
Toluene	0.89	0.050	1.000	0	89.3	80	120			
Ethylbenzene	0.89	0.050	1.000	0	89.1	80	120			
Xylenes, Total	2.7	0.10	3.000	0	88.8	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.7	70	130			

Sample ID: **mb-72664**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **PBS**	Batch ID: **72664**	RunNo: **94040**							
Prep Date: **1/17/2023**	Analysis Date: **1/18/2023**	SeqNo: **3395137**	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	0.92		1.000		91.8	70	130			

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 Quanitative 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#: **2301573**
27-Jan-23

Client: Vertex Resources Services, Inc.
Project: Todd 36 State 1 Pasture

Sample ID: **2301573-049ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BES23-50 4'** Batch ID: **72664** RunNo: **94040**
Prep Date: **1/17/2023** Analysis Date: **1/18/2023** SeqNo: **3395140** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	0.9843	0	99.3	68.8	120			
Toluene	0.99	0.049	0.9843	0	101	73.6	124			
Ethylbenzene	0.99	0.049	0.9843	0	100	72.7	129			
Xylenes, Total	2.9	0.098	2.953	0	99.5	75.7	126			
Surr: 4-Bromofluorobenzene	0.92		0.9843		93.2	70	130			

Sample ID: **2301573-049amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BES23-50 4'** Batch ID: **72664** RunNo: **94040**
Prep Date: **1/17/2023** Analysis Date: **1/18/2023** SeqNo: **3395141** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9872	0	106	68.8	120	6.88	20	
Toluene	1.1	0.049	0.9872	0	108	73.6	124	7.21	20	
Ethylbenzene	1.1	0.049	0.9872	0	108	72.7	129	7.38	20	
Xylenes, Total	3.2	0.099	2.962	0	107	75.7	126	7.47	20	
Surr: 4-Bromofluorobenzene	0.91		0.9872		92.7	70	130	0	0	

Sample ID: **lcs-72654** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **72654** RunNo: **94091**
Prep Date: **1/17/2023** Analysis Date: **1/19/2023** SeqNo: **3397091** 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	97.0	80	120			
Toluene	0.98	0.050	1.000	0	98.0	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.4	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.3	70	130			

Sample ID: **mb-72654** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **72654** RunNo: **94091**
Prep Date: **1/17/2023** Analysis Date: **1/19/2023** SeqNo: **3397092** 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		94.9	70	130			

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 Quanitative 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#: **2301573**
27-Jan-23

Client: Vertex Resources Services, Inc.
Project: Todd 36 State 1 Pasture

Sample ID: **2301573-030ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BES23-31 4'** Batch ID: **72654** RunNo: **94091**
Prep Date: **1/17/2023** Analysis Date: **1/19/2023** SeqNo: **3397095** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	0.9930	0	94.9	68.8	120			
Toluene	0.96	0.050	0.9930	0	96.4	73.6	124			
Ethylbenzene	0.95	0.050	0.9930	0	96.1	72.7	129			
Xylenes, Total	2.8	0.099	2.979	0	95.5	75.7	126			
Surr: 4-Bromofluorobenzene	0.95		0.9930		95.7	70	130			

Sample ID: **2301573-030amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BES23-31 4'** Batch ID: **72654** RunNo: **94091**
Prep Date: **1/17/2023** Analysis Date: **1/19/2023** SeqNo: **3397096** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.024	0.9785	0	92.5	68.8	120	4.12	20	
Toluene	0.92	0.049	0.9785	0	94.2	73.6	124	3.76	20	
Ethylbenzene	0.92	0.049	0.9785	0	93.9	72.7	129	3.83	20	
Xylenes, Total	2.7	0.098	2.935	0	93.4	75.7	126	3.72	20	
Surr: 4-Bromofluorobenzene	0.93		0.9785		94.8	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 2301573

RcptNo: 1

Received By: Juan Rojas 1/16/2023 10:00:00 AM

Completed By: Sean Livingston 1/17/2023 8:11:54 AM

Reviewed By: JR 1/17/23

Chain of Custody

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

Log In

3. Was an attempt made to cool the 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: KPG 1-17-23

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	2.9	Good	Not Present	Morty		

Received by OCD: 1/21/2026 6:39:41 AM

Released to Imaging: 3/18/2026 3:36:11 PM

Chain-of-Custody Record

Client: Devon (Vertex)

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: Todd 36 State 1 "Pasture"

Project #: 21E-02816

Project Manager: Kent Stallings.

Sampler: J. Reta

On Ice: ☐ Yes ☐ No

# of Coolers: 1 Monty

Cooler Temp(including CF): 2.8 to 1=2.9 (°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. 2301573	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)
01/13/23	09:30	Soil	BES23-01 4'	4oz Jar	Ice	001										
	09:35		BES23-02 4'			002										
	09:40		BES23-03 4'			003										
	09:45		BES23-04 4'			004										
	09:50		BES23-05 4'			005										
	09:55		BES23-06 4'			006										
	10:00		BES23-07 4'			007										
	10:05		BES23-08 4'			008										
	10:10		BES23-09 4'			009										
	10:15		BES23-10 4'			010										
	10:20		BES23-11 4'			011										
	10:25		BES23-12 4'			012										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
01/13/23	18:17	J. Reta			1/16/23	1000
1/16/23	1910			courier	1/17/23	7:45

Remarks: Direct Bill to Devon
CC: Monica Peppin & Jacob Reta

Devon/Harvard

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: Devon (Vertex)

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:
ToJJ 36 State 1 "Pasture"

Project #:
21E-02816

Project Manager:
Kent Stallings

Sampler: J. Reta

On Ice: ☒ Yes ☐ No

# of Coolers: Many

Cooler Temp(including CF): 2.8+0.2=3.0 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
01/13/2023	10:30	Soil	BES23-13 4'	4 oz Jar	Ice	013
	10:35		BES23-14 4'			014
	10:45		BES23-16 4'			015
	10:50		BES23-17 4'			016
	10:55		BES23-18 4'			017
	11:00		BES23-19 4'			018
	11:05		BES23-20 4'			019
	11:10		BES23-21 4'			020
	11:15		BES23-22 4'			021
	11:20		BES23-23 4'			022
	11:25		BES23-24 4'			023

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	Time	Relinquished by:	Received by:	Via:	Date	Time
01/13/23	18:17	J. Reta				
1/16/23	1900				1/16/23	1000
					1/17/23	7:45

Remarks: Direct 13:11 to Devon
cc: Monica Peppin & Jacob Reta
Devon/Harvard.

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Chain-of-Custody Record

Client: Devon (Vertex)

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: Todd 36 State 1 "Pasture"

Project #: 21E-02816

Project Manager: Kent Stallings

Sampler: J. Reta

On Ice: ☐ Yes ☐ No

# of Coolers: 1 Marty

Cooler Temp (including CF): 2.8+0.1=2.9 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
01/13/23	11:30	Soil	BES23-25 4'	4oz Jar	Ice	024										
	11:35		BES23-26 4'			025										
	11:40		BES23-27 4'			026										
	11:45		BES23-28 4'			027										
	11:50		BES23-29 4'			028										
	11:55		BES23-30 4'			029										
	12:00		BES23-31 4'			030										
	12:05		BES23-32 4'			031										
	12:10		BES23-33 4'			032										
	12:15		BES23-34 4'			033										
	12:20		BES23-35 4'			034										
	12:25		BES23-36 4'			035										

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
01/13/23		J. Reta				
1/16/23	1980			courier	1/17/23	7:45

Remarks: Direct Bill to Devon
CC: Monica Peppin & Jacob Reta
Devon/Harvard.

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Chain-of-Custody Record

Client: Devon (Vertex)

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: Tod 36 State 1 "Pasture"

Project #: 21E-02816

Project Manager: Kent Stallings.

Sampler: J. Reta

On Ice: ☐ Yes ☐ No

# of Coolers: 1 Monty

Cooler Temp(including CF): 2.8+0.1=2.9 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH (8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
01/14/23	09:20	Soil	BES23-37 4'	4oz Jar	Ice	036										
	09:25		BES23-38 4'			037										
	09:30		BES23-39 4'			038										
	09:35		BES23-40 4'			039										
	09:40		BES23-41 4'			040										
	09:45		BES23-42 4'			041										
	09:50		BES23-43 4'			042										
	09:55		BES23-44 4'			043										
	10:00		BES23-45 4'			044										
	10:05		BES23-46 4'			045										
	10:10		BES23-47 4'			046										
	10:15		BES23-48 4'			047										

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
01/14/23	15:11	J. Reta				
1/16/23	1900				1/16/23	1000
				Courier	1/17/23	7:45

Remarks: Direct Bill to Devon
cc: Monica Peppin & Jacob Reta

Devon/Harvard.

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: Devon (Vertex)

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:
Todd 36 State 1 "Pasture"

Project #:
21E-02816

Project Manager:
Kent Stallings

Sampler: J. Reta

On Ice: ☒ Yes ☐ No

# of Coolers: 1 Mary

Cooler Temp(including CF): 2.9+0.1=2.9 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
01/14/23	10:20	Soil	BES23-49 4'	4oz Jar	Ice	048										
	10:25		BES23-50 4'			049										
	10:30		BES23-51 4'			050										
	10:35		BES23-52 4'			051										
	10:40		BES23-53 4'			052										
	10:45		BES23-54 4'			053										
	12:30		BES23-15 4'			054										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
01/14/23	15:11	J. Reta	[signature]		1/16/23	1000
1/16/23	1900	[signature]	[signature]	courier	1/17/23	7:45

Remarks: Direct Bill to Devon
cc: Monica Peppin & Jacob Reta

Devon/Harvard.

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

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

February 01, 2023

Kent Stallings

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

RE: Todd 36 State 1 Pasture OrderNo.: 2301622

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 23 sample(s) on 1/21/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2301622**
Date Reported: **2/1/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-55 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/19/2023 9:30:00 AM
Lab ID: 2301622-001 **Matrix:** SOIL **Received Date:** 1/21/2023 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/25/2023 1:49:24 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/25/2023 1:49:24 PM
Surr: DNOP	71.9	69-147		%Rec	1	1/25/2023 1:49:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/27/2023 1:04:00 AM
Surr: BFB	92.4	37.7-212		%Rec	1	1/27/2023 1:04:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	1/27/2023 1:04:00 AM
Toluene	ND	0.048		mg/Kg	1	1/27/2023 1:04:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/27/2023 1:04:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	1/27/2023 1:04:00 AM
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	1/27/2023 1:04:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	81	59		mg/Kg	20	1/27/2023 12:40:22 AM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2301622**
Date Reported: **2/1/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-56 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/19/2023 9:35:00 AM
Lab ID: 2301622-002 **Matrix:** SOIL **Received Date:** 1/21/2023 10:30:00 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	1/25/2023 4:57:16 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/25/2023 4:57:16 PM
Surr: DNOP	88.7	69-147		%Rec	1	1/25/2023 4:57:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/27/2023 1:23:00 AM
Surr: BFB	93.0	37.7-212		%Rec	1	1/27/2023 1:23:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	1/27/2023 1:23:00 AM
Toluene	ND	0.050		mg/Kg	1	1/27/2023 1:23:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/27/2023 1:23:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/27/2023 1:23:00 AM
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	1/27/2023 1:23:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	180	60		mg/Kg	20	1/27/2023 12:53:14 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301622**
Date Reported: **2/1/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-57 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/19/2023 9:40:00 AM
Lab ID: 2301622-003 **Matrix:** SOIL **Received Date:** 1/21/2023 10:30:00 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	1/25/2023 5:08:00 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/25/2023 5:08:00 PM
Surr: DNOP	86.0	69-147		%Rec	1	1/25/2023 5:08:00 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/27/2023 1:43:00 AM
Surr: BFB	96.9	37.7-212		%Rec	1	1/27/2023 1:43:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	1/27/2023 1:43:00 AM
Toluene	ND	0.048		mg/Kg	1	1/27/2023 1:43:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/27/2023 1:43:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/27/2023 1:43:00 AM
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	1/27/2023 1:43:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	8600	300		mg/Kg	100	1/27/2023 8:47:06 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301622**
Date Reported: **2/1/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-58 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/19/2023 9:45:00 AM
Lab ID: 2301622-004 **Matrix:** SOIL **Received Date:** 1/21/2023 10:30:00 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	1/25/2023 5:18:46 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/25/2023 5:18:46 PM
Surr: DNOP	72.6	69-147		%Rec	1	1/25/2023 5:18:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/27/2023 2:02:00 AM
Surr: BFB	92.7	37.7-212		%Rec	1	1/27/2023 2:02:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	1/27/2023 2:02:00 AM
Toluene	ND	0.049		mg/Kg	1	1/27/2023 2:02:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/27/2023 2:02:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/27/2023 2:02:00 AM
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	1/27/2023 2:02:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	670	60		mg/Kg	20	1/27/2023 1:18:58 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301622**
Date Reported: **2/1/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-59 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/19/2023 9:50:00 AM
Lab ID: 2301622-005 **Matrix:** SOIL **Received Date:** 1/21/2023 10:30:00 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	1/25/2023 5:29:28 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/25/2023 5:29:28 PM
Surr: DNOP	71.9	69-147		%Rec	1	1/25/2023 5:29:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/27/2023 2:22:00 AM
Surr: BFB	95.8	37.7-212		%Rec	1	1/27/2023 2:22:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	1/27/2023 2:22:00 AM
Toluene	ND	0.049		mg/Kg	1	1/27/2023 2:22:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/27/2023 2:22:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/27/2023 2:22:00 AM
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	1	1/27/2023 2:22:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	10000	600		mg/Kg	200	1/27/2023 8:59:26 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301622**
Date Reported: **2/1/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-60 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/19/2023 9:55:00 AM
Lab ID: 2301622-006 **Matrix:** SOIL **Received Date:** 1/21/2023 10:30:00 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	1/25/2023 6:07:45 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/25/2023 6:07:45 PM
Surr: DNOP	101	69-147		%Rec	1	1/25/2023 6:07:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/26/2023 8:19:09 PM
Surr: BFB	108	37.7-212		%Rec	1	1/26/2023 8:19:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	1/26/2023 8:19:09 PM
Toluene	ND	0.050		mg/Kg	1	1/26/2023 8:19:09 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/26/2023 8:19:09 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/26/2023 8:19:09 PM
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	1/26/2023 8:19:09 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	160	61		mg/Kg	20	1/27/2023 1:44:42 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301622**
Date Reported: **2/1/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-61 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/19/2023 10:00:00 AM
Lab ID: 2301622-007 **Matrix:** SOIL **Received Date:** 1/21/2023 10:30:00 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	1/25/2023 6:45:40 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/25/2023 6:45:40 PM
Surr: DNOP	90.4	69-147		%Rec	1	1/25/2023 6:45:40 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/26/2023 9:29:02 PM
Surr: BFB	108	37.7-212		%Rec	1	1/26/2023 9:29:02 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.023		mg/Kg	1	1/26/2023 9:29:02 PM
Toluene	ND	0.046		mg/Kg	1	1/26/2023 9:29:02 PM
Ethylbenzene	ND	0.046		mg/Kg	1	1/26/2023 9:29:02 PM
Xylenes, Total	ND	0.093		mg/Kg	1	1/26/2023 9:29:02 PM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	1/26/2023 9:29:02 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	300	60		mg/Kg	20	1/27/2023 1:57:33 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301622**
Date Reported: **2/1/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-62 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/19/2023 10:05:00 AM
Lab ID: 2301622-008 **Matrix:** SOIL **Received Date:** 1/21/2023 10:30:00 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	1/25/2023 6:58:51 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/25/2023 6:58:51 PM
Surr: DNOP	78.7	69-147		%Rec	1	1/25/2023 6:58:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/26/2023 10:38:35 PM
Surr: BFB	108	37.7-212		%Rec	1	1/26/2023 10:38:35 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	1/26/2023 10:38:35 PM
Toluene	ND	0.049		mg/Kg	1	1/26/2023 10:38:35 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/26/2023 10:38:35 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/26/2023 10:38:35 PM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	1/26/2023 10:38:35 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	110	60		mg/Kg	20	1/27/2023 2:36:08 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301622**
Date Reported: **2/1/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-63 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/19/2023 10:15:00 AM
Lab ID: 2301622-009 **Matrix:** SOIL **Received Date:** 1/21/2023 10:30:00 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	1/25/2023 7:12:10 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/25/2023 7:12:10 PM
Surr: DNOP	101	69-147		%Rec	1	1/25/2023 7:12:10 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/26/2023 11:01:48 PM
Surr: BFB	115	37.7-212		%Rec	1	1/26/2023 11:01:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	1/26/2023 11:01:48 PM
Toluene	ND	0.049		mg/Kg	1	1/26/2023 11:01:48 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/26/2023 11:01:48 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/26/2023 11:01:48 PM
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1	1/26/2023 11:01:48 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	1/27/2023 2:49:01 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301622**
Date Reported: **2/1/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-64 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/19/2023 10:20:00 AM
Lab ID: 2301622-010 **Matrix:** SOIL
Received Date: 1/21/2023 10:30:00 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	1/25/2023 7:25:33 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/25/2023 7:25:33 PM
Surr: DNOP	92.7	69-147		%Rec	1	1/25/2023 7:25:33 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/26/2023 11:24:59 PM
Surr: BFB	116	37.7-212		%Rec	1	1/26/2023 11:24:59 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	1/26/2023 11:24:59 PM
Toluene	ND	0.049		mg/Kg	1	1/26/2023 11:24:59 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/26/2023 11:24:59 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/26/2023 11:24:59 PM
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	1/26/2023 11:24:59 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	2700	150		mg/Kg	50	1/27/2023 9:11:47 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301622**
Date Reported: **2/1/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-65 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/19/2023 10:40:00 AM
Lab ID: 2301622-011 **Matrix:** SOIL **Received Date:** 1/21/2023 10:30:00 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	1/25/2023 7:39:01 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/25/2023 7:39:01 PM
Surr: DNOP	113	69-147		%Rec	1	1/25/2023 7:39:01 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/26/2023 11:48:11 PM
Surr: BFB	117	37.7-212		%Rec	1	1/26/2023 11:48:11 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	1/26/2023 11:48:11 PM
Toluene	ND	0.048		mg/Kg	1	1/26/2023 11:48:11 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/26/2023 11:48:11 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/26/2023 11:48:11 PM
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	1/26/2023 11:48:11 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	9500	300		mg/Kg	100	1/29/2023 3:39:10 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301622**
Date Reported: **2/1/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-66 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/19/2023 10:45:00 AM
Lab ID: 2301622-012 **Matrix:** SOIL **Received Date:** 1/21/2023 10:30:00 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	1/25/2023 7:52:23 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/25/2023 7:52:23 PM
Surr: DNOP	79.8	69-147		%Rec	1	1/25/2023 7:52:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/27/2023 12:11:24 AM
Surr: BFB	112	37.7-212		%Rec	1	1/27/2023 12:11:24 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	1/27/2023 12:11:24 AM
Toluene	ND	0.050		mg/Kg	1	1/27/2023 12:11:24 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/27/2023 12:11:24 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/27/2023 12:11:24 AM
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	1/27/2023 12:11:24 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	110	60		mg/Kg	20	1/27/2023 10:30:36 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301622**
Date Reported: **2/1/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-67 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/19/2023 10:50:00 AM
Lab ID: 2301622-013 **Matrix:** SOIL **Received Date:** 1/21/2023 10:30:00 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	1/25/2023 8:05:48 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/25/2023 8:05:48 PM
Surr: DNOP	83.4	69-147		%Rec	1	1/25/2023 8:05:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/27/2023 12:34:31 AM
Surr: BFB	112	37.7-212		%Rec	1	1/27/2023 12:34:31 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	1/27/2023 12:34:31 AM
Toluene	ND	0.048		mg/Kg	1	1/27/2023 12:34:31 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/27/2023 12:34:31 AM
Xylenes, Total	ND	0.096		mg/Kg	1	1/27/2023 12:34:31 AM
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	1/27/2023 12:34:31 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	370	60		mg/Kg	20	1/27/2023 10:42:57 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301622**
Date Reported: **2/1/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-68 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/19/2023 10:55:00 AM
Lab ID: 2301622-014 **Matrix:** SOIL
Received Date: 1/21/2023 10:30:00 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	1/25/2023 8:19:12 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/25/2023 8:19:12 PM
Surr: DNOP	82.3	69-147		%Rec	1	1/25/2023 8:19:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/27/2023 12:57:42 AM
Surr: BFB	105	37.7-212		%Rec	1	1/27/2023 12:57:42 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	1/27/2023 12:57:42 AM
Toluene	ND	0.047		mg/Kg	1	1/27/2023 12:57:42 AM
Ethylbenzene	ND	0.047		mg/Kg	1	1/27/2023 12:57:42 AM
Xylenes, Total	ND	0.095		mg/Kg	1	1/27/2023 12:57:42 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	1/27/2023 12:57:42 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	7900	300		mg/Kg	100	1/29/2023 3:51:30 AM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301622**
Date Reported: **2/1/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-69 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/19/2023 11:00:00 AM
Lab ID: 2301622-015 **Matrix:** SOIL **Received Date:** 1/21/2023 10:30:00 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	1/25/2023 8:32:37 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/25/2023 8:32:37 PM
Surr: DNOP	90.5	69-147		%Rec	1	1/25/2023 8:32:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/27/2023 1:20:50 AM
Surr: BFB	112	37.7-212		%Rec	1	1/27/2023 1:20:50 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	1/27/2023 1:20:50 AM
Toluene	ND	0.048		mg/Kg	1	1/27/2023 1:20:50 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/27/2023 1:20:50 AM
Xylenes, Total	ND	0.095		mg/Kg	1	1/27/2023 1:20:50 AM
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	1/27/2023 1:20:50 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	8500	300		mg/Kg	100	1/29/2023 4:28:31 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301622**
Date Reported: **2/1/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-70 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/19/2023 11:05:00 AM
Lab ID: 2301622-016 **Matrix:** SOIL **Received Date:** 1/21/2023 10:30:00 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	1/26/2023 1:59:24 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/26/2023 1:59:24 PM
Surr: DNOP	97.4	69-147		%Rec	1	1/26/2023 1:59:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/27/2023 2:07:06 AM
Surr: BFB	113	37.7-212		%Rec	1	1/27/2023 2:07:06 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	1/27/2023 2:07:06 AM
Toluene	ND	0.048		mg/Kg	1	1/27/2023 2:07:06 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/27/2023 2:07:06 AM
Xylenes, Total	ND	0.096		mg/Kg	1	1/27/2023 2:07:06 AM
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	1/27/2023 2:07:06 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	1800	60		mg/Kg	20	1/27/2023 12:09:21 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301622**
Date Reported: **2/1/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-71 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/19/2023 11:10:00 AM
Lab ID: 2301622-017 **Matrix:** SOIL **Received Date:** 1/21/2023 10:30:00 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	1/25/2023 8:59:27 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/25/2023 8:59:27 PM
Surr: DNOP	77.9	69-147		%Rec	1	1/25/2023 8:59:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/27/2023 2:30:12 AM
Surr: BFB	113	37.7-212		%Rec	1	1/27/2023 2:30:12 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	1/27/2023 2:30:12 AM
Toluene	ND	0.047		mg/Kg	1	1/27/2023 2:30:12 AM
Ethylbenzene	ND	0.047		mg/Kg	1	1/27/2023 2:30:12 AM
Xylenes, Total	ND	0.094		mg/Kg	1	1/27/2023 2:30:12 AM
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	1/27/2023 2:30:12 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	4200	300		mg/Kg	100	1/30/2023 5:22:51 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301622**
Date Reported: **2/1/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-72 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/19/2023 11:15:00 AM
Lab ID: 2301622-018 **Matrix:** SOIL **Received Date:** 1/21/2023 10:30:00 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	1/25/2023 9:12:49 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/25/2023 9:12:49 PM
Surr: DNOP	85.2	69-147		%Rec	1	1/25/2023 9:12:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/27/2023 2:53:17 AM
Surr: BFB	114	37.7-212		%Rec	1	1/27/2023 2:53:17 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.023		mg/Kg	1	1/27/2023 2:53:17 AM
Toluene	ND	0.047		mg/Kg	1	1/27/2023 2:53:17 AM
Ethylbenzene	ND	0.047		mg/Kg	1	1/27/2023 2:53:17 AM
Xylenes, Total	ND	0.094		mg/Kg	1	1/27/2023 2:53:17 AM
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	1/27/2023 2:53:17 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	790	60		mg/Kg	20	1/27/2023 12:34:03 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301622**
Date Reported: **2/1/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-73 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/19/2023 11:20:00 AM
Lab ID: 2301622-019 **Matrix:** SOIL **Received Date:** 1/21/2023 10:30:00 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	1/25/2023 9:26:11 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/25/2023 9:26:11 PM
Surr: DNOP	75.1	69-147		%Rec	1	1/25/2023 9:26:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/27/2023 3:16:26 AM
Surr: BFB	108	37.7-212		%Rec	1	1/27/2023 3:16:26 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	1/27/2023 3:16:26 AM
Toluene	ND	0.049		mg/Kg	1	1/27/2023 3:16:26 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/27/2023 3:16:26 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/27/2023 3:16:26 AM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	1/27/2023 3:16:26 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	83	60		mg/Kg	20	1/27/2023 12:46:24 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301622**
Date Reported: **2/1/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-74 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/19/2023 11:25:00 AM
Lab ID: 2301622-020 **Matrix:** SOIL **Received Date:** 1/21/2023 10:30:00 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	1/25/2023 9:39:31 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/25/2023 9:39:31 PM
Surr: DNOP	73.1	69-147		%Rec	1	1/25/2023 9:39:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/27/2023 3:39:35 AM
Surr: BFB	110	37.7-212		%Rec	1	1/27/2023 3:39:35 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	1/27/2023 3:39:35 AM
Toluene	ND	0.050		mg/Kg	1	1/27/2023 3:39:35 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/27/2023 3:39:35 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/27/2023 3:39:35 AM
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	1/27/2023 3:39:35 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	1/27/2023 12:58:45 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301622**
Date Reported: **2/1/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-75 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/19/2023 11:30:00 AM
Lab ID: 2301622-021 **Matrix:** SOIL **Received Date:** 1/21/2023 10:30:00 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	1/25/2023 9:52:49 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/25/2023 9:52:49 PM
Surr: DNOP	76.1	69-147		%Rec	1	1/25/2023 9:52:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/27/2023 4:02:42 AM
Surr: BFB	108	37.7-212		%Rec	1	1/27/2023 4:02:42 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.023		mg/Kg	1	1/27/2023 4:02:42 AM
Toluene	ND	0.046		mg/Kg	1	1/27/2023 4:02:42 AM
Ethylbenzene	ND	0.046		mg/Kg	1	1/27/2023 4:02:42 AM
Xylenes, Total	ND	0.093		mg/Kg	1	1/27/2023 4:02:42 AM
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	1/27/2023 4:02:42 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	1/27/2023 1:11:06 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301622**
Date Reported: **2/1/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-76 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/19/2023 11:35:00 AM
Lab ID: 2301622-022 **Matrix:** SOIL **Received Date:** 1/21/2023 10:30:00 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	1/25/2023 10:06:09 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/25/2023 10:06:09 PM
Surr: DNOP	79.6	69-147		%Rec	1	1/25/2023 10:06:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/27/2023 4:25:48 AM
Surr: BFB	112	37.7-212		%Rec	1	1/27/2023 4:25:48 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	1/27/2023 4:25:48 AM
Toluene	ND	0.050		mg/Kg	1	1/27/2023 4:25:48 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/27/2023 4:25:48 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/27/2023 4:25:48 AM
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	1/27/2023 4:25:48 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	380	60		mg/Kg	20	1/27/2023 1:48:07 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301622**
Date Reported: **2/1/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-77 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/19/2023 11:40:00 AM
Lab ID: 2301622-023 **Matrix:** SOIL **Received Date:** 1/21/2023 10:30:00 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	1/27/2023 2:47:46 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/27/2023 2:47:46 PM
Surr: DNOP	90.5	69-147		%Rec	1	1/27/2023 2:47:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/27/2023 4:48:53 AM
Surr: BFB	110	37.7-212		%Rec	1	1/27/2023 4:48:53 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.023		mg/Kg	1	1/27/2023 4:48:53 AM
Toluene	ND	0.046		mg/Kg	1	1/27/2023 4:48:53 AM
Ethylbenzene	ND	0.046		mg/Kg	1	1/27/2023 4:48:53 AM
Xylenes, Total	ND	0.092		mg/Kg	1	1/27/2023 4:48:53 AM
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	1/27/2023 4:48:53 AM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	1/27/2023 2:00:28 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 Quanitative 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#: **2301622**
01-Feb-23

Client: Vertex Resources Services, Inc.
Project: Todd 36 State 1 Pasture

Sample ID: **MB-72857** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **72857** RunNo: **94230**
Prep Date: **1/26/2023** Analysis Date: **1/26/2023** SeqNo: **3403177** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-72857** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **72857** RunNo: **94230**
Prep Date: **1/26/2023** Analysis Date: **1/26/2023** SeqNo: **3403178** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.4	90	110			

Sample ID: **MB-72863** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **72863** RunNo: **94247**
Prep Date: **1/27/2023** Analysis Date: **1/27/2023** SeqNo: **3403855** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-72863** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **72863** RunNo: **94247**
Prep Date: **1/27/2023** Analysis Date: **1/27/2023** SeqNo: **3403856** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.5	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2301622**
01-Feb-23

Client: Vertex Resources Services, Inc.
Project: Todd 36 State 1 Pasture

Sample ID: **LCS-72784** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **72784** RunNo: **94184**
Prep Date: **1/24/2023** Analysis Date: **1/25/2023** SeqNo: **3401254** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	61.9	130			
Surr: DNOP	5.8		5.000		116	69	147			

Sample ID: **MB-72784** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **72784** RunNo: **94184**
Prep Date: **1/24/2023** Analysis Date: **1/25/2023** SeqNo: **3401255** 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	69	147			

Sample ID: **MB-72786** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **72786** RunNo: **94166**
Prep Date: **1/24/2023** Analysis Date: **1/25/2023** SeqNo: **3401684** 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		93.5	69	147			

Sample ID: **LCS-72786** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **72786** RunNo: **94166**
Prep Date: **1/24/2023** Analysis Date: **1/25/2023** SeqNo: **3401685** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.7	61.9	130			
Surr: DNOP	4.7		5.000		94.7	69	147			

Sample ID: **2301622-006AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BES23-60 4'** Batch ID: **72786** RunNo: **94166**
Prep Date: **1/24/2023** Analysis Date: **1/25/2023** SeqNo: **3401687** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.5	47.39	0	87.2	54.2	135			
Surr: DNOP	4.0		4.739		84.9	69	147			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2301622**
01-Feb-23

Client: Vertex Resources Services, Inc.
Project: Todd 36 State 1 Pasture

Sample ID: **2301622-006AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BES23-60 4'** Batch ID: **72786** RunNo: **94166**
Prep Date: **1/24/2023** Analysis Date: **1/25/2023** SeqNo: **3401688** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.8	49.07	0	89.9	54.2	135	6.55	29.2	
Surr: DNOP	4.1		4.907		83.8	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 Quanitative 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#: **2301622**
01-Feb-23

Client: Vertex Resources Services, Inc.
Project: Todd 36 State 1 Pasture

Sample ID: **mb-72765** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **72765** RunNo: **94203**
Prep Date: **1/23/2023** Analysis Date: **1/26/2023** SeqNo: **3402090** 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		94.8	37.7	212			

Sample ID: **2301622-006ams** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BES23-60 4'** Batch ID: **72767** RunNo: **94196**
Prep Date: **1/23/2023** Analysis Date: **1/26/2023** SeqNo: **3402593** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	24.75	0	105	70	130			
Surr: BFB	1200		990.1		120	37.7	212			

Sample ID: **2301622-006amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BES23-60 4'** Batch ID: **72767** RunNo: **94196**
Prep Date: **1/23/2023** Analysis Date: **1/26/2023** SeqNo: **3402594** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	24.90	0	114	70	130	8.75	20	
Surr: BFB	1200		996.0		122	37.7	212	0	0	

Sample ID: **lcs-72767** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **72767** RunNo: **94196**
Prep Date: **1/23/2023** Analysis Date: **1/26/2023** SeqNo: **3402641** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	121	72.3	137			
Surr: BFB	1200		1000		123	37.7	212			

Sample ID: **mb-72767** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **72767** RunNo: **94196**
Prep Date: **1/23/2023** Analysis Date: **1/26/2023** SeqNo: **3402642** 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		108	37.7	212			

Sample ID: **lcs-72765** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **72765** RunNo: **94203**
Prep Date: **1/23/2023** Analysis Date: **1/26/2023** SeqNo: **3403294** 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 Quanitative 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#: **2301622**
01-Feb-23

Client: Vertex Resources Services, Inc.
Project: Todd 36 State 1 Pasture

Sample ID: **lcs-72765**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **72765**	RunNo: **94203**							
Prep Date: **1/23/2023**	Analysis Date: **1/26/2023**	SeqNo: **3403294**	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	109	72.3	137			
Surr: BFB	1100		1000		107	37.7	212			

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 Quanitative 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#: **2301622**
01-Feb-23

Client: Vertex Resources Services, Inc.
Project: Todd 36 State 1 Pasture

Sample ID: **mb-72765**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **PBS**	Batch ID: **72765**	RunNo: **94203**							
Prep Date: **1/23/2023**	Analysis Date: **1/26/2023**	SeqNo: **3402091**	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		97.1	70	130			

Sample ID: **2301622-007amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **BES23-61 4'**	Batch ID: **72767**	RunNo: **94196**							
Prep Date: **1/23/2023**	Analysis Date: **1/26/2023**	SeqNo: **3402617**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.023	0.9328	0.01747	94.8	68.8	120	2.62	20	
Toluene	0.94	0.047	0.9328	0.01952	99.0	73.6	124	0.856	20	
Ethylbenzene	0.93	0.047	0.9328	0	99.8	72.7	129	2.42	20	
Xylenes, Total	2.8	0.093	2.799	0.02825	99.5	75.7	126	2.12	20	
Surr: 4-Bromofluorobenzene	0.97		0.9328		104	70	130	0	0	

Sample ID: **LCS-72767**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **72767**	RunNo: **94196**							
Prep Date: **1/23/2023**	Analysis Date: **1/26/2023**	SeqNo: **3402618**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.3	80	120			
Toluene	0.95	0.050	1.000	0	95.0	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.4	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	70	130			

Sample ID: **mb-72767**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **PBS**	Batch ID: **72767**	RunNo: **94196**							
Prep Date: **1/23/2023**	Analysis Date: **1/26/2023**	SeqNo: **3402619**	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		103	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2301622**
01-Feb-23

Client: Vertex Resources Services, Inc.
Project: Todd 36 State 1 Pasture

Sample ID: **2301622-007ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BES23-61 4'** Batch ID: **72767** RunNo: **94196**
Prep Date: **1/23/2023** Analysis Date: **1/26/2023** SeqNo: **3402622** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.023	0.9259	0.01747	98.1	68.8	120			
Toluene	0.95	0.046	0.9259	0.01952	101	73.6	124			
Ethylbenzene	0.95	0.046	0.9259	0	103	72.7	129			
Xylenes, Total	2.9	0.093	2.778	0.02825	102	75.7	126			
Surr: 4-Bromofluorobenzene	0.97		0.9259		105	70	130			

Sample ID: **lcs-72765** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **72765** RunNo: **94203**
Prep Date: **1/23/2023** Analysis Date: **1/26/2023** SeqNo: **3403068** 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	95.0	80	120			
Toluene	0.95	0.050	1.000	0	94.6	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.3	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.6	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.3	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 2301622

RcptNo: 1

Received By: Juan Rojas 1/21/2023 10:30:00 AM

Completed By: Juan Rojas 1/21/2023 11:01:03 AM

Reviewed By: JR 1-23-23

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° 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: JR 1/23/23

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:

Missing phone number and email address. JR 1/21/23

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.3	Good	No	Morty		

Received by OCD: 1/21/2026 6:39:41 AM

Released to Imaging: 3/18/2026 3:36:11 PM

Chain-of-Custody Record

Client: Devon (Vertex)

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: Todd 36 State 1 "Pasture"

Project #: 21E-02816

Project Manager: Kent Stallings

Sampler: J. Reta

On Ice: ☒ Yes ☐ No

# of Coolers: 1 Marty

Cooler Temp(Including CF): 0.3-0=0.3 (°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. 2301622	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)
6/14/23	09:30	Soil	BES23-55 4'	4oz Jar	Ice	-001										
	09:35		BES23-56 4'			-002										
	09:40		BES23-57 4'			-003										
	09:45		BES23-58 4'			-004										
	09:50		BES23-59 4'			-005										
	09:55		BES23-60 4'			-006										
	10:00		BES23-61 4'			-007										
	10:05		BES23-62 4'			-008										
	10:15		BES23-63 4'			-009										
	10:20		BES23-64 4'			-010										
	10:40		BES23-65 4'			-011										
	10:45		BES23-66 4'			-012										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/19/23	17:09	J. Reta			1/20/23	700
1/20/23	1900		Courier		1/21/23	10:30

Remarks: Direct Bill to Devon
cc: Monica Peppin & Jacob Reta
Devon/Harvard.

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: Devon (Vertex)

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: Todd 36 State 1 "Pasture"

Project #: 21E-02816

Project Manager: Kent Stallings

Sampler: S. Reta

On Ice: ☒ Yes ☐ No

# of Coolers: 1 (Mary)

Cooler Temp(including CF): 0.3-0=0.3 (°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. 2301622	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)
1/9/23	10:50	Soil	BES23-67 4'	4oz Jar	Ice	-013										
	10:55		BES23-68 4'			-014										
	11:00		BES23-69 4'			-015										
	11:05		BES23-70 4'			-016										
	11:10		BES23-71 4'			-017										
	11:15		BES23-72 4'			-018										
	11:20		BES23-73 4'			-019										
	11:25		BES23-74 4'			-020										
	11:30		BES23-75 4'			-021										
	11:35		BES23-76 4'			-022										
	11:40		BES23-77 4'			-023										
			4'													

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
1/9/23	17:09	S. Reta				
1/20/23	1900				1/20/23	700

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
					1/21/23	0730

Remarks: Direct Bill to Devon
cc: Monica Peppin & Jacob Reta
Devon/Hurvard.

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

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

February 02, 2023

Kent Stallings

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

RE: Todd 36 State 1 Pasture OrderNo.: 2301871

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 17 sample(s) on 1/24/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2301871**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-78 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/20/2023 10:00:00 AM
Lab ID: 2301871-001 **Matrix:** SOIL
Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	1/27/2023 2:24:00 PM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	1/27/2023 2:24:00 PM
Surr: DNOP	91.0	69-147		%Rec	1	1/27/2023 2:24:00 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/31/2023 6:43:36 PM
Surr: BFB	104	37.7-212		%Rec	1	1/31/2023 6:43:36 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	0.026	0.024		mg/Kg	1	1/31/2023 6:43:36 PM
Toluene	ND	0.047		mg/Kg	1	1/31/2023 6:43:36 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/31/2023 6:43:36 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/31/2023 6:43:36 PM
Surr: 4-Bromofluorobenzene	94.9	70-130		%Rec	1	1/31/2023 6:43:36 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	1400	59		mg/Kg	20	1/30/2023 4:33:13 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301871**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Todd 36 State 1 Pasture
Lab ID: 2301871-002 **Matrix:** SOIL

Client Sample ID: BES23-79 4'
Collection Date: 1/20/2023 10:05:00 AM
Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	1/27/2023 12:43:58 PM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	1/27/2023 12:43:58 PM
Surr: DNOP	78.1	69-147		%Rec	1	1/27/2023 12:43:58 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	1/30/2023 4:45:38 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	0.025		mg/Kg	1	1/27/2023 4:19:33 PM
Toluene	ND	0.050		mg/Kg	1	1/27/2023 4:19:33 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/27/2023 4:19:33 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/27/2023 4:19:33 PM
Surr: 1,2-Dichloroethane-d4	119	70-130		%Rec	1	1/27/2023 4:19:33 PM
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	1	1/27/2023 4:19:33 PM
Surr: Dibromofluoromethane	106	70-130		%Rec	1	1/27/2023 4:19:33 PM
Surr: Toluene-d8	106	70-130		%Rec	1	1/27/2023 4:19:33 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/27/2023 4:19:33 PM
Surr: BFB	110	70-130		%Rec	1	1/27/2023 4:19:33 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301871**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Todd 36 State 1 Pasture
Lab ID: 2301871-003 **Matrix:** SOIL

Client Sample ID: BES23-80 4'
Collection Date: 1/20/2023 10:10:00 AM
Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	1/30/2023 2:35:58 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/30/2023 2:35:58 PM
Surr: DNOP	87.1	69-147		%Rec	1	1/30/2023 2:35:58 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	1/30/2023 4:58:03 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	0.025		mg/Kg	1	1/27/2023 5:41:03 PM
Toluene	ND	0.050		mg/Kg	1	1/27/2023 5:41:03 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/27/2023 5:41:03 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/27/2023 5:41:03 PM
Surr: 1,2-Dichloroethane-d4	121	70-130		%Rec	1	1/27/2023 5:41:03 PM
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	1/27/2023 5:41:03 PM
Surr: Dibromofluoromethane	108	70-130		%Rec	1	1/27/2023 5:41:03 PM
Surr: Toluene-d8	109	70-130		%Rec	1	1/27/2023 5:41:03 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/27/2023 5:41:03 PM
Surr: BFB	113	70-130		%Rec	1	1/27/2023 5:41:03 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2301871**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Todd 36 State 1 Pasture
Lab ID: 2301871-004 **Matrix:** SOIL

Client Sample ID: BES23-81 4'
Collection Date: 1/20/2023 10:15:00 AM
Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/27/2023 1:11:48 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/27/2023 1:11:48 PM
Surr: DNOP	77.9	69-147		%Rec	1	1/27/2023 1:11:48 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	1/30/2023 5:10:27 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	0.024		mg/Kg	1	1/27/2023 7:02:17 PM
Toluene	ND	0.049		mg/Kg	1	1/27/2023 7:02:17 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/27/2023 7:02:17 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/27/2023 7:02:17 PM
Surr: 1,2-Dichloroethane-d4	117	70-130		%Rec	1	1/27/2023 7:02:17 PM
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	1	1/27/2023 7:02:17 PM
Surr: Dibromofluoromethane	106	70-130		%Rec	1	1/27/2023 7:02:17 PM
Surr: Toluene-d8	108	70-130		%Rec	1	1/27/2023 7:02:17 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/27/2023 7:02:17 PM
Surr: BFB	111	70-130		%Rec	1	1/27/2023 7:02:17 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2301871**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-82 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/20/2023 10:20:00 AM
Lab ID: 2301871-005 **Matrix:** SOIL
Received Date: 1/24/2023 1:40:00 PM

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	1/27/2023 1:25:51 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/27/2023 1:25:51 PM
Surr: DNOP	70.8	69-147		%Rec	1	1/27/2023 1:25:51 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	59		mg/Kg	20	1/30/2023 3:05:58 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	0.024		mg/Kg	1	1/27/2023 7:29:21 PM
Toluene	ND	0.049		mg/Kg	1	1/27/2023 7:29:21 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/27/2023 7:29:21 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/27/2023 7:29:21 PM
Surr: 1,2-Dichloroethane-d4	115	70-130		%Rec	1	1/27/2023 7:29:21 PM
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	1/27/2023 7:29:21 PM
Surr: Dibromofluoromethane	104	70-130		%Rec	1	1/27/2023 7:29:21 PM
Surr: Toluene-d8	105	70-130		%Rec	1	1/27/2023 7:29:21 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/27/2023 7:29:21 PM
Surr: BFB	104	70-130		%Rec	1	1/27/2023 7:29:21 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2301871**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Todd 36 State 1 Pasture
Lab ID: 2301871-006 **Matrix:** SOIL

Client Sample ID: BES23-83 4'
Collection Date: 1/20/2023 10:25:00 AM
Received Date: 1/24/2023 1:40:00 PM

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	1/30/2023 2:59:48 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/30/2023 2:59:48 PM
Surr: DNOP	85.2	69-147		%Rec	1	1/30/2023 2:59:48 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	1/30/2023 3:44:33 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	0.024		mg/Kg	1	1/27/2023 7:56:25 PM
Toluene	ND	0.049		mg/Kg	1	1/27/2023 7:56:25 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/27/2023 7:56:25 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/27/2023 7:56:25 PM
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	1	1/27/2023 7:56:25 PM
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	1/27/2023 7:56:25 PM
Surr: Dibromofluoromethane	102	70-130		%Rec	1	1/27/2023 7:56:25 PM
Surr: Toluene-d8	107	70-130		%Rec	1	1/27/2023 7:56:25 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/27/2023 7:56:25 PM
Surr: BFB	110	70-130		%Rec	1	1/27/2023 7:56:25 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2301871**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-84 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/20/2023 10:30:00 AM
Lab ID: 2301871-007 **Matrix:** SOIL
Received Date: 1/24/2023 1:40:00 PM

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	1/30/2023 3:23:37 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/30/2023 3:23:37 PM
Surr: DNOP	77.3	69-147		%Rec	1	1/30/2023 3:23:37 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	510	60		mg/Kg	20	1/30/2023 3:57:25 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	0.024		mg/Kg	1	1/27/2023 8:23:28 PM
Toluene	ND	0.049		mg/Kg	1	1/27/2023 8:23:28 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/27/2023 8:23:28 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/27/2023 8:23:28 PM
Surr: 1,2-Dichloroethane-d4	113	70-130		%Rec	1	1/27/2023 8:23:28 PM
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	1/27/2023 8:23:28 PM
Surr: Dibromofluoromethane	109	70-130		%Rec	1	1/27/2023 8:23:28 PM
Surr: Toluene-d8	114	70-130		%Rec	1	1/27/2023 8:23:28 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/27/2023 8:23:28 PM
Surr: BFB	121	70-130		%Rec	1	1/27/2023 8:23:28 PM

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

Qualifiers:

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

Analytical Report
Lab Order **2301871**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-85 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/20/2023 10:35:00 AM
Lab ID: 2301871-008 **Matrix:** SOIL
Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	1/30/2023 3:47:27 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/30/2023 3:47:27 PM
Surr: DNOP	118	69-147		%Rec	1	1/30/2023 3:47:27 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	970	60		mg/Kg	20	1/30/2023 4:10:17 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	0.025		mg/Kg	1	1/27/2023 8:50:28 PM
Toluene	ND	0.050		mg/Kg	1	1/27/2023 8:50:28 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/27/2023 8:50:28 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/27/2023 8:50:28 PM
Surr: 1,2-Dichloroethane-d4	116	70-130		%Rec	1	1/27/2023 8:50:28 PM
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	1/27/2023 8:50:28 PM
Surr: Dibromofluoromethane	108	70-130		%Rec	1	1/27/2023 8:50:28 PM
Surr: Toluene-d8	108	70-130		%Rec	1	1/27/2023 8:50:28 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/27/2023 8:50:28 PM
Surr: BFB	112	70-130		%Rec	1	1/27/2023 8:50:28 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301871**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-86 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/20/2023 10:40:00 AM
Lab ID: 2301871-009 **Matrix:** SOIL
Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	1/27/2023 2:22:08 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/27/2023 2:22:08 PM
Surr: DNOP	69.3	69-147		%Rec	1	1/27/2023 2:22:08 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	4600	150		mg/Kg	50	1/31/2023 12:22:40 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	0.025		mg/Kg	1	1/27/2023 9:17:28 PM
Toluene	ND	0.049		mg/Kg	1	1/27/2023 9:17:28 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/27/2023 9:17:28 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/27/2023 9:17:28 PM
Surr: 1,2-Dichloroethane-d4	116	70-130		%Rec	1	1/27/2023 9:17:28 PM
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	1/27/2023 9:17:28 PM
Surr: Dibromofluoromethane	96.8	70-130		%Rec	1	1/27/2023 9:17:28 PM
Surr: Toluene-d8	104	70-130		%Rec	1	1/27/2023 9:17:28 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/27/2023 9:17:28 PM
Surr: BFB	109	70-130		%Rec	1	1/27/2023 9:17:28 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301871**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-87 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/20/2023 10:45:00 AM
Lab ID: 2301871-010 **Matrix:** SOIL
Received Date: 1/24/2023 1:40:00 PM

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	1/27/2023 2:36:09 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/27/2023 2:36:09 PM
Surr: DNOP	78.3	69-147		%Rec	1	1/27/2023 2:36:09 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	14000	600		mg/Kg	200	1/31/2023 12:35:31 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	0.025		mg/Kg	1	1/27/2023 9:44:25 PM
Toluene	ND	0.050		mg/Kg	1	1/27/2023 9:44:25 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/27/2023 9:44:25 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/27/2023 9:44:25 PM
Surr: 1,2-Dichloroethane-d4	117	70-130		%Rec	1	1/27/2023 9:44:25 PM
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	1	1/27/2023 9:44:25 PM
Surr: Dibromofluoromethane	107	70-130		%Rec	1	1/27/2023 9:44:25 PM
Surr: Toluene-d8	109	70-130		%Rec	1	1/27/2023 9:44:25 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/27/2023 9:44:25 PM
Surr: BFB	115	70-130		%Rec	1	1/27/2023 9:44:25 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301871**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-88 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/20/2023 10:50:00 AM
Lab ID: 2301871-011 **Matrix:** SOIL
Received Date: 1/24/2023 1:40:00 PM

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	1/30/2023 4:11:13 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/30/2023 4:11:13 PM
Surr: DNOP	112	69-147		%Rec	1	1/30/2023 4:11:13 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	16000	600		mg/Kg	200	1/31/2023 12:48:23 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	0.025		mg/Kg	1	1/27/2023 10:11:20 PM
Toluene	ND	0.049		mg/Kg	1	1/27/2023 10:11:20 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/27/2023 10:11:20 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/27/2023 10:11:20 PM
Surr: 1,2-Dichloroethane-d4	115	70-130		%Rec	1	1/27/2023 10:11:20 PM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	1/27/2023 10:11:20 PM
Surr: Dibromofluoromethane	108	70-130		%Rec	1	1/27/2023 10:11:20 PM
Surr: Toluene-d8	106	70-130		%Rec	1	1/27/2023 10:11:20 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/27/2023 10:11:20 PM
Surr: BFB	110	70-130		%Rec	1	1/27/2023 10:11:20 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301871**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Todd 36 State 1 Pasture
Lab ID: 2301871-012 **Matrix:** SOIL

Client Sample ID: BES23-89 4'
Collection Date: 1/20/2023 10:55:00 AM
Received Date: 1/24/2023 1:40:00 PM

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	1/30/2023 4:35:01 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/30/2023 4:35:01 PM
Surr: DNOP	74.1	69-147		%Rec	1	1/30/2023 4:35:01 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	180	61		mg/Kg	20	1/30/2023 5:01:46 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	0.025		mg/Kg	1	1/27/2023 10:38:16 PM
Toluene	ND	0.050		mg/Kg	1	1/27/2023 10:38:16 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/27/2023 10:38:16 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/27/2023 10:38:16 PM
Surr: 1,2-Dichloroethane-d4	121	70-130		%Rec	1	1/27/2023 10:38:16 PM
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	1/27/2023 10:38:16 PM
Surr: Dibromofluoromethane	104	70-130		%Rec	1	1/27/2023 10:38:16 PM
Surr: Toluene-d8	108	70-130		%Rec	1	1/27/2023 10:38:16 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/27/2023 10:38:16 PM
Surr: BFB	109	70-130		%Rec	1	1/27/2023 10:38:16 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301871**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Todd 36 State 1 Pasture
Lab ID: 2301871-013 **Matrix:** SOIL

Client Sample ID: BES23-90 4'
Collection Date: 1/20/2023 11:00:00 AM
Received Date: 1/24/2023 1:40:00 PM

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	1/31/2023 11:06:02 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/31/2023 11:06:02 AM
Surr: DNOP	128	69-147		%Rec	1	1/31/2023 11:06:02 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	7400	300		mg/Kg	100	1/31/2023 1:01:15 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	0.024		mg/Kg	1	1/27/2023 11:05:11 PM
Toluene	ND	0.049		mg/Kg	1	1/27/2023 11:05:11 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/27/2023 11:05:11 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/27/2023 11:05:11 PM
Surr: 1,2-Dichloroethane-d4	127	70-130		%Rec	1	1/27/2023 11:05:11 PM
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	1/27/2023 11:05:11 PM
Surr: Dibromofluoromethane	108	70-130		%Rec	1	1/27/2023 11:05:11 PM
Surr: Toluene-d8	103	70-130		%Rec	1	1/27/2023 11:05:11 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/27/2023 11:05:11 PM
Surr: BFB	102	70-130		%Rec	1	1/27/2023 11:05:11 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2301871**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-91 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/20/2023 11:05:00 AM
Lab ID: 2301871-014 **Matrix:** SOIL
Received Date: 1/24/2023 1:40:00 PM

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	1/27/2023 3:31:47 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/27/2023 3:31:47 PM
Surr: DNOP	72.5	69-147		%Rec	1	1/27/2023 3:31:47 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	590	59		mg/Kg	20	1/30/2023 5:27:30 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	0.025		mg/Kg	1	1/27/2023 11:32:02 PM
Toluene	ND	0.050		mg/Kg	1	1/27/2023 11:32:02 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/27/2023 11:32:02 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/27/2023 11:32:02 PM
Surr: 1,2-Dichloroethane-d4	120	70-130		%Rec	1	1/27/2023 11:32:02 PM
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	1/27/2023 11:32:02 PM
Surr: Dibromofluoromethane	106	70-130		%Rec	1	1/27/2023 11:32:02 PM
Surr: Toluene-d8	112	70-130		%Rec	1	1/27/2023 11:32:02 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/27/2023 11:32:02 PM
Surr: BFB	108	70-130		%Rec	1	1/27/2023 11:32:02 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301871**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-92 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/20/2023 11:10:00 AM
Lab ID: 2301871-015 **Matrix:** SOIL
Received Date: 1/24/2023 1:40:00 PM

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	1/27/2023 3:45:20 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/27/2023 3:45:20 PM
Surr: DNOP	77.6	69-147		%Rec	1	1/27/2023 3:45:20 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	670	60		mg/Kg	20	1/30/2023 5:40:22 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	0.025		mg/Kg	1	1/27/2023 11:58:53 PM
Toluene	ND	0.049		mg/Kg	1	1/27/2023 11:58:53 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/27/2023 11:58:53 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/27/2023 11:58:53 PM
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	1/27/2023 11:58:53 PM
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	1/27/2023 11:58:53 PM
Surr: Dibromofluoromethane	103	70-130		%Rec	1	1/27/2023 11:58:53 PM
Surr: Toluene-d8	105	70-130		%Rec	1	1/27/2023 11:58:53 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/27/2023 11:58:53 PM
Surr: BFB	111	70-130		%Rec	1	1/27/2023 11:58:53 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301871**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Todd 36 State 1 Pasture
Lab ID: 2301871-016 **Matrix:** SOIL

Client Sample ID: BES23-93 4'
Collection Date: 1/20/2023 11:15:00 AM
Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	1/30/2023 4:58:46 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/30/2023 4:58:46 PM
Surr: DNOP	129	69-147		%Rec	1	1/30/2023 4:58:46 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	360	60		mg/Kg	20	1/30/2023 6:19:04 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	0.025		mg/Kg	1	1/30/2023 1:09:54 PM
Toluene	ND	0.050		mg/Kg	1	1/30/2023 1:09:54 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/30/2023 1:09:54 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/30/2023 1:09:54 PM
Surr: 1,2-Dichloroethane-d4	116	70-130		%Rec	1	1/30/2023 1:09:54 PM
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	1/30/2023 1:09:54 PM
Surr: Dibromofluoromethane	110	70-130		%Rec	1	1/30/2023 1:09:54 PM
Surr: Toluene-d8	109	70-130		%Rec	1	1/30/2023 1:09:54 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/30/2023 1:09:54 PM
Surr: BFB	110	70-130		%Rec	1	1/30/2023 1:09:54 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2301871**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Todd 36 State 1 Pasture
Lab ID: 2301871-017 **Matrix:** SOIL

Client Sample ID: BES23-94 4'
Collection Date: 1/20/2023 11:20:00 AM
Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	1/27/2023 4:12:33 PM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	1/27/2023 4:12:33 PM
Surr: DNOP	82.9	69-147		%Rec	1	1/27/2023 4:12:33 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	1/30/2023 6:31:55 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	0.025		mg/Kg	1	1/30/2023 1:37:06 PM
Toluene	ND	0.050		mg/Kg	1	1/30/2023 1:37:06 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/30/2023 1:37:06 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/30/2023 1:37:06 PM
Surr: 1,2-Dichloroethane-d4	125	70-130		%Rec	1	1/30/2023 1:37:06 PM
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	1/30/2023 1:37:06 PM
Surr: Dibromofluoromethane	112	70-130		%Rec	1	1/30/2023 1:37:06 PM
Surr: Toluene-d8	110	70-130		%Rec	1	1/30/2023 1:37:06 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/30/2023 1:37:06 PM
Surr: BFB	107	70-130		%Rec	1	1/30/2023 1:37:06 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2301871**

02-Feb-23

Client: Devon Energy

Project: Todd 36 State 1 Pasture

Sample ID:	**MB-72891**	SampType:	**mblk**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**72891**	RunNo:	**94281**					
Prep Date:	**1/30/2023**	Analysis Date:	**1/30/2023**	SeqNo:	**3406133**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID:	**LCS-72891**	SampType:	**lcs**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**72891**	RunNo:	**94281**					
Prep Date:	**1/30/2023**	Analysis Date:	**1/30/2023**	SeqNo:	**3406134**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.1	90	110			

Sample ID:	**MB-72897**	SampType:	**mblk**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**72897**	RunNo:	**94284**					
Prep Date:	**1/30/2023**	Analysis Date:	**1/30/2023**	SeqNo:	**3406221**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID:	**LCS-72897**	SampType:	**lcs**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**72897**	RunNo:	**94284**					
Prep Date:	**1/30/2023**	Analysis Date:	**1/30/2023**	SeqNo:	**3406222**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.9	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2301871**

02-Feb-23

Client: Devon Energy

Project: Todd 36 State 1 Pasture

Sample ID: **MB-72830**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **72830**	RunNo: **94191**
Prep Date: **1/25/2023**	Analysis Date: **1/26/2023**	SeqNo: **3402654** 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		100	69	147			

Sample ID: **LCS-72830**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **72830**	RunNo: **94191**
Prep Date: **1/25/2023**	Analysis Date: **1/26/2023**	SeqNo: **3402655** 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	4.5		5.000		90.4	69	147			

Sample ID: **MB-72842**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **72842**	RunNo: **94228**
Prep Date: **1/26/2023**	Analysis Date: **1/27/2023**	SeqNo: **3404945** 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	9.6		10.00		95.6	69	147			

Sample ID: **LCS-72842**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **72842**	RunNo: **94228**
Prep Date: **1/26/2023**	Analysis Date: **1/27/2023**	SeqNo: **3404946** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	107	61.9	130			
Surr: DNOP	4.4		5.000		88.4	69	147			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2301871**

02-Feb-23

Client: Devon Energy

Project: Todd 36 State 1 Pasture

Sample ID: **lcs-72819**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **72819**	RunNo: **94318**
Prep Date: **1/25/2023**	Analysis Date: **1/31/2023**	SeqNo: **3406748** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	118	72.3	137			
Surr: BFB	1200		1000		116	37.7	212			

Sample ID: **mb-72819**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **72819**	RunNo: **94318**
Prep Date: **1/25/2023**	Analysis Date: **1/31/2023**	SeqNo: **3406749** 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		103	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2301871**

02-Feb-23

Client: Devon Energy

Project: Todd 36 State 1 Pasture

Sample ID: **LCS-72819**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **72819**	RunNo: **94318**
Prep Date: **1/25/2023**	Analysis Date: **1/31/2023**	SeqNo: **3406775** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.8	80	120			
Toluene	0.90	0.050	1.000	0	90.2	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.1	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.1	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.6	70	130			

Sample ID: **mb-72819**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **72819**	RunNo: **94318**
Prep Date: **1/25/2023**	Analysis Date: **1/31/2023**	SeqNo: **3406776** 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	0.93		1.000		93.0	70	130			

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 Quanitative 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#: **2301871**

02-Feb-23

Client: Devon Energy

Project: Todd 36 State 1 Pasture

Sample ID: **2301871-003ams**	SampType: **MS4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BES23-80 4'**	Batch ID: **72821**	RunNo: **94264**
Prep Date: **1/25/2023**	Analysis Date: **1/27/2023**	SeqNo: **3404811** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	0.9843	0	86.5	75.8	123			
Toluene	0.97	0.049	0.9843	0	98.6	68.3	130			
Ethylbenzene	0.94	0.049	0.9843	0	95.0	76.6	132			
Xylenes, Total	3.0	0.098	2.953	0	101	74.7	132			
Surr: 1,2-Dichloroethane-d4	0.54		0.4921		111	70	130			
Surr: 4-Bromofluorobenzene	0.56		0.4921		113	70	130			
Surr: Dibromofluoromethane	0.49		0.4921		98.6	70	130			
Surr: Toluene-d8	0.53		0.4921		108	70	130			

Sample ID: **2301871-003amsd**	SampType: **MSD4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BES23-80 4'**	Batch ID: **72821**	RunNo: **94264**
Prep Date: **1/25/2023**	Analysis Date: **1/27/2023**	SeqNo: **3404812** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9766	0	89.2	75.8	123	2.32	20	
Toluene	1.0	0.049	0.9766	0	106	68.3	130	6.61	20	
Ethylbenzene	0.98	0.049	0.9766	0	99.9	76.6	132	4.17	20	
Xylenes, Total	3.1	0.098	2.930	0	107	74.7	132	4.84	20	
Surr: 1,2-Dichloroethane-d4	0.52		0.4883		107	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.55		0.4883		112	70	130	0	0	
Surr: Dibromofluoromethane	0.49		0.4883		99.6	70	130	0	0	
Surr: Toluene-d8	0.53		0.4883		109	70	130	0	0	

Sample ID: **lcs-72821**	SampType: **LCS4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BatchQC**	Batch ID: **72821**	RunNo: **94264**
Prep Date: **1/25/2023**	Analysis Date: **1/27/2023**	SeqNo: **3404825** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.3	80	120			
Toluene	0.96	0.050	1.000	0	96.2	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.1	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 1,2-Dichloroethane-d4	0.58		0.5000		117	70	130			
Surr: 4-Bromofluorobenzene	0.59		0.5000		118	70	130			
Surr: Dibromofluoromethane	0.55		0.5000		110	70	130			
Surr: Toluene-d8	0.54		0.5000		108	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2301871**

02-Feb-23

Client: Devon Energy

Project: Todd 36 State 1 Pasture

Sample ID: **mb-72821**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **72821**	RunNo: **94264**
Prep Date: **1/25/2023**	Analysis Date: **1/27/2023**	SeqNo: **3404826** 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: 1,2-Dichloroethane-d4	0.64		0.5000		129	70	130			
Surr: 4-Bromofluorobenzene	0.57		0.5000		114	70	130			
Surr: Dibromofluoromethane	0.55		0.5000		109	70	130			
Surr: Toluene-d8	0.55		0.5000		111	70	130			

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 Quanitative 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#: **2301871**

02-Feb-23

Client: Devon Energy

Project: Todd 36 State 1 Pasture

Sample ID: **2301871-002ams**	SampType: **MS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **BES23-79 4'**	Batch ID: **72821**	RunNo: **94264**
Prep Date: **1/25/2023**	Analysis Date: **1/27/2023**	SeqNo: **3404787** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.9	24.68	0	121	65.9	123			
Surr: BFB	560		493.6		113	70	130			

Sample ID: **2301871-002amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **BES23-79 4'**	Batch ID: **72821**	RunNo: **94264**
Prep Date: **1/25/2023**	Analysis Date: **1/27/2023**	SeqNo: **3404788** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.8	24.20	0	120	65.9	123	3.08	20	
Surr: BFB	540		484.0		112	70	130	0	0	

Sample ID: **LCS-72821**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **72821**	RunNo: **94264**
Prep Date: **1/25/2023**	Analysis Date: **1/27/2023**	SeqNo: **3404802** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	5.0	25.00	0	124	70	130			
Surr: BFB	580		500.0		117	70	130			

Sample ID: **mb-72821**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **72821**	RunNo: **94264**
Prep Date: **1/25/2023**	Analysis Date: **1/27/2023**	SeqNo: **3404803** 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	550		500.0		110	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Devon Energy** Work Order Number: **2301871** RcptNo: **1**

Received By: **Joseph Alderette** **1/24/2023 1:40:00 PM**

Completed By: **Desiree Dominguez** **1/24/2023 2:23:52 PM**

Reviewed By: KPG 1-24-23

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° 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: DAD 1/24/23

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:

COC missing client info (on file) - DAD 1/24/23

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Not Present	Yogi		

Received by OCD: 1/21/2026 6:39:41 AM

Released to Imaging: 3/18/2026 3:36:11 PM

Chain-of-Custody Record

Client: Devon (Vertex)

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: ToWJ36State 1 "Pasture"

Project #: 21E-02816

Project Manager: Kent Stallings

Sampler: J. Reta

On Ice: ☑ Yes ☐ No

# of Coolers: 1 yogi

Cooler Temp(including CF): 1.8 - 0.2 = 1.6 °C (°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. 2301871	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)
1/20/2023	10:00	Soil	BES23-78 4'	4oz Jar	Ice	-001										
	10:05		BES23-79 4'			-002										
	10:10		BES23-80 4'			-003										
	10:15		BES23-81 4'			-004										
	10:20		BES23-82 4'			-005										
	10:25		BES23-83 4'			-006										
	10:30		BES23-84 4'			-007										
	10:35		BES23-85 4'			-008										
	10:40		BES23-86 4'			-009										
	10:45		BES23-87 4'			-010										
	10:50		BES23-88 4'			-011										
	10:55		BES23-89 4'			-012										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
1/20/2023	18:13	J. Reta			1/23/23	915
1/23/23	1900			courier	1-24-23	13:40

Remarks: Direct Bill to Devon
cc: Monica Peppin & Sarah Reta

Devon/Harvard.

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: Devon (Vertex)

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: Todd 36 State 1 "Pasture"

Project #: 21E-02816

Project Manager: Kent Stallings

Sampler: J. Reta

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 1.8-0.2=1.6 (°C) Yogi

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2301871
01/20/2023	11:00	Soil	BES23-90 4'	4oz Jar	Ice	-013
	11:05		BES23-91 4'			-014
	11:10		BES23-92 4'			-015
	11:15		BES23-93 4'			-016
	11:20		BES23-94 4'			-017

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	Time	Relinquished by:	Received by:	Via:	Date	Time
01/20/2023	18:13	J. Reta				
1/23/23	1900				1-23-23	915

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
1/23/23	1900			Courier	1-24-23	13:40

Remarks: Direct Bill to Devon
CC: Monica Peppin & Jacob Reta

Devon/Harvard.

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

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

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

February 02, 2023

Kent Stallings

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

RE: Todd 36 State 1 Pasture OrderNo.: 2301869

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 17 sample(s) on 1/24/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2301869**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-95
Project: Todd 36 State 1 Pasture
Collection Date: 1/21/2023 10:00:00 AM
Lab ID: 2301869-001 **Matrix:** SOIL
Received Date: 1/24/2023 1:40:00 PM

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	1/26/2023 2:42:25 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/26/2023 2:42:25 PM
Surr: DNOP	113	69-147		%Rec	1	1/26/2023 2:42:25 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/26/2023 4:56:00 PM
Surr: BFB	98.4	37.7-212		%Rec	1	1/26/2023 4:56:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	1/26/2023 4:56:00 PM
Toluene	ND	0.049		mg/Kg	1	1/26/2023 4:56:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/26/2023 4:56:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/26/2023 4:56:00 PM
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	1/26/2023 4:56:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	110	60		mg/Kg	20	1/30/2023 2:53:06 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301869**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-96
Project: Todd 36 State 1 Pasture
Collection Date: 1/21/2023 10:05:00 AM
Lab ID: 2301869-002 **Matrix:** SOIL
Received Date: 1/24/2023 1:40:00 PM

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	1/26/2023 4:34:20 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/26/2023 4:34:20 PM
Surr: DNOP	106	69-147		%Rec	1	1/26/2023 4:34:20 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/31/2023 9:51:55 PM
Surr: BFB	106	37.7-212		%Rec	1	1/31/2023 9:51:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	1/31/2023 9:51:55 PM
Toluene	ND	0.048		mg/Kg	1	1/31/2023 9:51:55 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/31/2023 9:51:55 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/31/2023 9:51:55 PM
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	1/31/2023 9:51:55 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	4900	150		mg/Kg	50	1/31/2023 3:39:26 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301869**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-97
Project: Todd 36 State 1 Pasture
Collection Date: 1/21/2023 10:10:00 AM
Lab ID: 2301869-003 **Matrix:** SOIL **Received Date:** 1/24/2023 1:40:00 PM

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	1/26/2023 4:47:57 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/26/2023 4:47:57 PM
Surr: DNOP	110	69-147		%Rec	1	1/26/2023 4:47:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/31/2023 10:15:23 PM
Surr: BFB	104	37.7-212		%Rec	1	1/31/2023 10:15:23 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	1/31/2023 10:15:23 PM
Toluene	ND	0.050		mg/Kg	1	1/31/2023 10:15:23 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/31/2023 10:15:23 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/31/2023 10:15:23 PM
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	1/31/2023 10:15:23 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	540	60		mg/Kg	20	1/30/2023 11:38:23 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301869**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-98
Project: Todd 36 State 1 Pasture
Collection Date: 1/21/2023 10:15:00 AM
Lab ID: 2301869-004 **Matrix:** SOIL **Received Date:** 1/24/2023 1:40:00 PM

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	1/26/2023 5:01:44 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/26/2023 5:01:44 PM
Surr: DNOP	90.1	69-147		%Rec	1	1/26/2023 5:01:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/31/2023 10:38:56 PM
Surr: BFB	105	37.7-212		%Rec	1	1/31/2023 10:38:56 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.023		mg/Kg	1	1/31/2023 10:38:56 PM
Toluene	ND	0.047		mg/Kg	1	1/31/2023 10:38:56 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/31/2023 10:38:56 PM
Xylenes, Total	ND	0.093		mg/Kg	1	1/31/2023 10:38:56 PM
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	1/31/2023 10:38:56 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	2400	60		mg/Kg	20	1/30/2023 11:50:48 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301869**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-99
Project: Todd 36 State 1 Pasture
Collection Date: 1/21/2023 10:20:00 AM
Lab ID: 2301869-005 **Matrix:** SOIL
Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	1/26/2023 5:15:42 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	1/26/2023 5:15:42 PM
Surr: DNOP	105	69-147		%Rec	1	1/26/2023 5:15:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/31/2023 11:02:20 PM
Surr: BFB	104	37.7-212		%Rec	1	1/31/2023 11:02:20 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	1/31/2023 11:02:20 PM
Toluene	ND	0.048		mg/Kg	1	1/31/2023 11:02:20 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/31/2023 11:02:20 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/31/2023 11:02:20 PM
Surr: 4-Bromofluorobenzene	94.7	70-130		%Rec	1	1/31/2023 11:02:20 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	9800	600		mg/Kg	200	1/31/2023 3:51:47 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301869**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-100
Project: Todd 36 State 1 Pasture
Collection Date: 1/21/2023 10:25:00 AM
Lab ID: 2301869-006 **Matrix:** SOIL
Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	1/26/2023 5:29:48 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/26/2023 5:29:48 PM
Surr: DNOP	97.0	69-147		%Rec	1	1/26/2023 5:29:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/31/2023 11:25:46 PM
Surr: BFB	103	37.7-212		%Rec	1	1/31/2023 11:25:46 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	1/31/2023 11:25:46 PM
Toluene	ND	0.049		mg/Kg	1	1/31/2023 11:25:46 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/31/2023 11:25:46 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/31/2023 11:25:46 PM
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	1/31/2023 11:25:46 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	6800	600		mg/Kg	200	1/31/2023 4:04:08 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301869**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-101
Project: Todd 36 State 1 Pasture
Collection Date: 1/21/2023 10:30:00 AM
Lab ID: 2301869-007 **Matrix:** SOIL **Received Date:** 1/24/2023 1:40:00 PM

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	1/26/2023 5:42:47 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/26/2023 5:42:47 PM
Surr: DNOP	91.6	69-147		%Rec	1	1/26/2023 5:42:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/31/2023 11:49:08 PM
Surr: BFB	103	37.7-212		%Rec	1	1/31/2023 11:49:08 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	1/31/2023 11:49:08 PM
Toluene	ND	0.050		mg/Kg	1	1/31/2023 11:49:08 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/31/2023 11:49:08 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/31/2023 11:49:08 PM
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	1/31/2023 11:49:08 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	18000	1500		mg/Kg	500	1/31/2023 4:16:28 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301869**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-102
Project: Todd 36 State 1 Pasture
Collection Date: 1/21/2023 10:35:00 AM
Lab ID: 2301869-008 **Matrix:** SOIL
Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	1/26/2023 5:55:44 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/26/2023 5:55:44 PM
Surr: DNOP	90.8	69-147		%Rec	1	1/26/2023 5:55:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/1/2023 12:35:47 AM
Surr: BFB	102	37.7-212		%Rec	1	2/1/2023 12:35:47 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/1/2023 12:35:47 AM
Toluene	ND	0.049		mg/Kg	1	2/1/2023 12:35:47 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/1/2023 12:35:47 AM
Xylenes, Total	ND	0.097		mg/Kg	1	2/1/2023 12:35:47 AM
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	2/1/2023 12:35:47 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	850	61		mg/Kg	20	1/30/2023 1:05:17 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301869**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-103
Project: Todd 36 State 1 Pasture
Collection Date: 1/21/2023 10:40:00 AM
Lab ID: 2301869-009 **Matrix:** SOIL
Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/26/2023 6:08:23 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/26/2023 6:08:23 PM
Surr: DNOP	78.2	69-147		%Rec	1	1/26/2023 6:08:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/1/2023 12:59:08 AM
Surr: BFB	103	37.7-212		%Rec	1	2/1/2023 12:59:08 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	0.027	0.023		mg/Kg	1	2/1/2023 12:59:08 AM
Toluene	ND	0.046		mg/Kg	1	2/1/2023 12:59:08 AM
Ethylbenzene	ND	0.046		mg/Kg	1	2/1/2023 12:59:08 AM
Xylenes, Total	ND	0.093		mg/Kg	1	2/1/2023 12:59:08 AM
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	1	2/1/2023 12:59:08 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	480	60		mg/Kg	20	1/30/2023 1:17:42 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301869**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-104
Project: Todd 36 State 1 Pasture
Collection Date: 1/21/2023 10:45:00 AM
Lab ID: 2301869-010 **Matrix:** SOIL
Received Date: 1/24/2023 1:40:00 PM

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	1/26/2023 6:21:03 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/26/2023 6:21:03 PM
Surr: DNOP	79.6	69-147		%Rec	1	1/26/2023 6:21:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/1/2023 1:22:26 AM
Surr: BFB	98.9	37.7-212		%Rec	1	2/1/2023 1:22:26 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	0.029	0.024		mg/Kg	1	2/1/2023 1:22:26 AM
Toluene	0.049	0.048		mg/Kg	1	2/1/2023 1:22:26 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/1/2023 1:22:26 AM
Xylenes, Total	ND	0.096		mg/Kg	1	2/1/2023 1:22:26 AM
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	2/1/2023 1:22:26 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	1/30/2023 1:30:07 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301869**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-105
Project: Todd 36 State 1 Pasture
Collection Date: 1/21/2023 10:50:00 AM
Lab ID: 2301869-011 **Matrix:** SOIL
Received Date: 1/24/2023 1:40:00 PM

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	1/27/2023 12:48:46 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/27/2023 12:48:46 PM
Surr: DNOP	85.8	69-147		%Rec	1	1/27/2023 12:48:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/1/2023 1:45:40 AM
Surr: BFB	103	37.7-212		%Rec	1	2/1/2023 1:45:40 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	0.027	0.024		mg/Kg	1	2/1/2023 1:45:40 AM
Toluene	ND	0.047		mg/Kg	1	2/1/2023 1:45:40 AM
Ethylbenzene	ND	0.047		mg/Kg	1	2/1/2023 1:45:40 AM
Xylenes, Total	ND	0.094		mg/Kg	1	2/1/2023 1:45:40 AM
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	2/1/2023 1:45:40 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	62	60		mg/Kg	20	1/30/2023 1:42:32 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301869**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-106
Project: Todd 36 State 1 Pasture
Collection Date: 1/21/2023 10:55:00 AM
Lab ID: 2301869-012 **Matrix:** SOIL
Received Date: 1/24/2023 1:40:00 PM

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	1/26/2023 6:46:45 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/26/2023 6:46:45 PM
Surr: DNOP	70.7	69-147		%Rec	1	1/26/2023 6:46:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/1/2023 2:08:53 AM
Surr: BFB	101	37.7-212		%Rec	1	2/1/2023 2:08:53 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/1/2023 2:08:53 AM
Toluene	ND	0.048		mg/Kg	1	2/1/2023 2:08:53 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/1/2023 2:08:53 AM
Xylenes, Total	ND	0.097		mg/Kg	1	2/1/2023 2:08:53 AM
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	2/1/2023 2:08:53 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	1/30/2023 1:54:57 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301869**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-107
Project: Todd 36 State 1 Pasture
Collection Date: 1/21/2023 11:00:00 AM
Lab ID: 2301869-013 **Matrix:** SOIL
Received Date: 1/24/2023 1:40:00 PM

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	1/27/2023 1:12:35 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/27/2023 1:12:35 PM
Surr: DNOP	77.2	69-147		%Rec	1	1/27/2023 1:12:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/1/2023 2:32:06 AM
Surr: BFB	100	37.7-212		%Rec	1	2/1/2023 2:32:06 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	0.033	0.024		mg/Kg	1	2/1/2023 2:32:06 AM
Toluene	0.065	0.048		mg/Kg	1	2/1/2023 2:32:06 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/1/2023 2:32:06 AM
Xylenes, Total	ND	0.096		mg/Kg	1	2/1/2023 2:32:06 AM
Surr: 4-Bromofluorobenzene	91.7	70-130		%Rec	1	2/1/2023 2:32:06 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	1/30/2023 2:07:21 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301869**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-108
Project: Todd 36 State 1 Pasture
Collection Date: 1/21/2023 11:05:00 AM
Lab ID: 2301869-014 **Matrix:** SOIL **Received Date:** 1/24/2023 1:40:00 PM

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	1/26/2023 7:13:27 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/26/2023 7:13:27 PM
Surr: DNOP	74.4	69-147		%Rec	1	1/26/2023 7:13:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/1/2023 2:55:19 AM
Surr: BFB	100	37.7-212		%Rec	1	2/1/2023 2:55:19 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	2/1/2023 2:55:19 AM
Toluene	ND	0.049		mg/Kg	1	2/1/2023 2:55:19 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/1/2023 2:55:19 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/1/2023 2:55:19 AM
Surr: 4-Bromofluorobenzene	90.9	70-130		%Rec	1	2/1/2023 2:55:19 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	1200	61		mg/Kg	20	1/30/2023 2:29:06 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301869**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-109
Project: Todd 36 State 1 Pasture
Collection Date: 1/21/2023 11:10:00 AM
Lab ID: 2301869-015 **Matrix:** SOIL
Received Date: 1/24/2023 1:40:00 PM

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	1/27/2023 1:36:22 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/27/2023 1:36:22 PM
Surr: DNOP	86.6	69-147		%Rec	1	1/27/2023 1:36:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/1/2023 3:18:26 AM
Surr: BFB	100	37.7-212		%Rec	1	2/1/2023 3:18:26 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.023		mg/Kg	1	2/1/2023 3:18:26 AM
Toluene	ND	0.046		mg/Kg	1	2/1/2023 3:18:26 AM
Ethylbenzene	ND	0.046		mg/Kg	1	2/1/2023 3:18:26 AM
Xylenes, Total	ND	0.093		mg/Kg	1	2/1/2023 3:18:26 AM
Surr: 4-Bromofluorobenzene	90.3	70-130		%Rec	1	2/1/2023 3:18:26 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	710	60		mg/Kg	20	1/30/2023 3:06:20 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301869**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-110
Project: Todd 36 State 1 Pasture
Collection Date: 1/21/2023 11:15:00 AM
Lab ID: 2301869-016 **Matrix:** SOIL
Received Date: 1/24/2023 1:40:00 PM

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	1/26/2023 7:40:06 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/26/2023 7:40:06 PM
Surr: DNOP	98.4	69-147		%Rec	1	1/26/2023 7:40:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/1/2023 3:41:35 AM
Surr: BFB	99.7	37.7-212		%Rec	1	2/1/2023 3:41:35 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	2/1/2023 3:41:35 AM
Toluene	ND	0.049		mg/Kg	1	2/1/2023 3:41:35 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/1/2023 3:41:35 AM
Xylenes, Total	ND	0.098		mg/Kg	1	2/1/2023 3:41:35 AM
Surr: 4-Bromofluorobenzene	90.8	70-130		%Rec	1	2/1/2023 3:41:35 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	4100	150		mg/Kg	50	1/31/2023 1:14:09 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301869**
Date Reported: **2/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-111
Project: Todd 36 State 1 Pasture
Collection Date: 1/21/2023 11:20:00 AM
Lab ID: 2301869-017 **Matrix:** SOIL
Received Date: 1/24/2023 1:40:00 PM

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	1/27/2023 2:00:08 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/27/2023 2:00:08 PM
Surr: DNOP	75.2	69-147		%Rec	1	1/27/2023 2:00:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/1/2023 4:04:41 AM
Surr: BFB	98.1	37.7-212		%Rec	1	2/1/2023 4:04:41 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	2/1/2023 4:04:41 AM
Toluene	ND	0.050		mg/Kg	1	2/1/2023 4:04:41 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/1/2023 4:04:41 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/1/2023 4:04:41 AM
Surr: 4-Bromofluorobenzene	89.6	70-130		%Rec	1	2/1/2023 4:04:41 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	1100	60		mg/Kg	20	1/30/2023 4:20:48 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 Quanitative 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#: **2301869**

02-Feb-23

Client: Devon Energy

Project: Todd 36 State 1 Pasture

Sample ID:	**MB-72884**	SampType:	**mblk**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**72884**	RunNo:	**94297**					
Prep Date:	**1/30/2023**	Analysis Date:	**1/30/2023**	SeqNo:	**3405817**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID:	**LCS-72884**	SampType:	**lcs**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**72884**	RunNo:	**94297**					
Prep Date:	**1/30/2023**	Analysis Date:	**1/30/2023**	SeqNo:	**3405818**	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			

Sample ID:	**MB-72891**	SampType:	**mblk**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**72891**	RunNo:	**94281**					
Prep Date:	**1/30/2023**	Analysis Date:	**1/30/2023**	SeqNo:	**3406133**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID:	**LCS-72891**	SampType:	**lcs**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**72891**	RunNo:	**94281**					
Prep Date:	**1/30/2023**	Analysis Date:	**1/30/2023**	SeqNo:	**3406134**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.1	90	110			

Sample ID:	**MB-72897**	SampType:	**mblk**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**72897**	RunNo:	**94284**					
Prep Date:	**1/30/2023**	Analysis Date:	**1/30/2023**	SeqNo:	**3406221**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID:	**LCS-72897**	SampType:	**lcs**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**72897**	RunNo:	**94284**					
Prep Date:	**1/30/2023**	Analysis Date:	**1/30/2023**	SeqNo:	**3406222**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.9	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2301869**

02-Feb-23

Client: Devon Energy

Project: Todd 36 State 1 Pasture

Sample ID: **MB-72814**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **72814**	RunNo: **94191**
Prep Date: **1/25/2023**	Analysis Date: **1/26/2023**	SeqNo: **3401999** 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			

Sample ID: **LCS-72814**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **72814**	RunNo: **94191**
Prep Date: **1/25/2023**	Analysis Date: **1/26/2023**	SeqNo: **3402000** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	10	50.00	0	118	61.9	130			
Surr: DNOP	4.7		5.000		94.0	69	147			

Sample ID: **MB-72830**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **72830**	RunNo: **94191**
Prep Date: **1/25/2023**	Analysis Date: **1/26/2023**	SeqNo: **3402654** 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		100	69	147			

Sample ID: **LCS-72830**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **72830**	RunNo: **94191**
Prep Date: **1/25/2023**	Analysis Date: **1/26/2023**	SeqNo: **3402655** 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	4.5		5.000		90.4	69	147			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2301869**

02-Feb-23

Client: Devon Energy

Project: Todd 36 State 1 Pasture

Sample ID: **lcs-72799**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **72799**	RunNo: **94183**
Prep Date: **1/24/2023**	Analysis Date: **1/26/2023**	SeqNo: **3401214** 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	72.3	137			
Surr: BFB	1000		1000		104	37.7	212			

Sample ID: **mb-72799**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **72799**	RunNo: **94183**
Prep Date: **1/24/2023**	Analysis Date: **1/26/2023**	SeqNo: **3401215** 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		91.7	37.7	212			

Sample ID: **lcs-72819**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **72819**	RunNo: **94318**
Prep Date: **1/25/2023**	Analysis Date: **1/31/2023**	SeqNo: **3406748** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	118	72.3	137			
Surr: BFB	1200		1000		116	37.7	212			

Sample ID: **mb-72819**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **72819**	RunNo: **94318**
Prep Date: **1/25/2023**	Analysis Date: **1/31/2023**	SeqNo: **3406749** 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		103	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2301869**

02-Feb-23

Client: Devon Energy

Project: Todd 36 State 1 Pasture

Sample ID: **lcs-72799**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **72799**	RunNo: **94183**
Prep Date: **1/24/2023**	Analysis Date: **1/26/2023**	SeqNo: **3401309** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.2	80	120			
Toluene	0.96	0.050	1.000	0	95.8	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.3	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.1	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.6	70	130			

Sample ID: **mb-72799**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **72799**	RunNo: **94183**
Prep Date: **1/24/2023**	Analysis Date: **1/26/2023**	SeqNo: **3401310** 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		94.7	70	130			

Sample ID: **LCS-72819**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **72819**	RunNo: **94318**
Prep Date: **1/25/2023**	Analysis Date: **1/31/2023**	SeqNo: **3406775** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.8	80	120			
Toluene	0.90	0.050	1.000	0	90.2	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.1	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.1	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.6	70	130			

Sample ID: **mb-72819**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **72819**	RunNo: **94318**
Prep Date: **1/25/2023**	Analysis Date: **1/31/2023**	SeqNo: **3406776** 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	0.93		1.000		93.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Devon Energy** Work Order Number: **2301869** RcptNo: **1**

Received By: **Joseph Alderette** **1/24/2023 1:40:00 PM**

Completed By: **Desiree Dominguez** **1/24/2023 2:12:00 PM**

Reviewed By: KRA 1.24.23

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° 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: SRA 1/24/23

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:

COC missing client info (on file) - DAD 1/24/23

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.2	Good	Not Present	Yogi		
2	1.6	Good	Not Present	Yogi		

Received by OCD: 1/21/2026 6:39:41 AM

Released to Imaging: 3/18/2026 3:36:11 PM

Chain-of-Custody Record

Client: Devon (Vertex)

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: Todd 36 State 1 "Pasture"

Project #: 21E-02816

Project Manager: Kent Stallings

Sampler: J. Reta

On Ice: ☑ Yes ☐ No

# of Coolers: 2 0.4 - 0.2 = 0.2°C Tojo

Cooler Temp(Including CF): 1.8 - 0.2 = 1.6 (°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. 2301869	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)
1/12/23	10:00	Soil	BES23-95	4oz Jar	Ice	-001										
	10:05		BES23-96			-002										
	10:10		BES23-97			-003										
	10:15		BES23-98			-004										
	10:20		BES23-99			-005										
	10:25		BES23-100			-006										
	10:30		BES23-101			-007										
	10:35		BES23-102			-008										
	10:40		BES23-103			-009										
	10:45		BES23-104			-010										
	10:50		BES23-105			-011										
	10:55		BES23-106			-012										

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
1/12/23	16:37	J. Reta				
1/13/23	1900				1/23/23	915
				courier	1-21-23	13:40

Remarks: Direct Bill to Devon
cc: Monica Peppin & Jacob Reta
Devon / Harvard.

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: Devon (Vertex)

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: Todd 36 State 1 "Pasture"

Project #: 21E-02816

Project Manager: Kent Stallings

Sampler: J. Reta

On Ice: ☑ Yes ☐ No

# of Coolers: 2 0.4-0.2=0.2°C yogi

Cooler Temp(including CF): 1.8-0.2=1.6 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
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Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2301869	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)
01/21/23	11:00	Soil	BES23-107	4oz Jar	Ice	-013										
	11:05		BES23-108			-014										
	11:10		BES23-109			-015										
	11:15		BES23-110			-016										
	11:20		BES23-111			-017										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
01/21/23	15:37	J. Reta			1/23/23	915
1/23/23	1900			courier	1-24-23	13:40

Remarks: Direct Bill to Devon
CC: Monica Peppin & Jacob Reta
Devon/Harvard.

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

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

February 09, 2023

Kent Stallings

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

RE: Todd 36 State 1 Pasture OrderNo.: 2301A36

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 16 sample(s) on 1/27/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2301A36**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-112 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/25/2023 10:00:00 AM
Lab ID: 2301A36-001 **Matrix:** SOIL
Received Date: 1/27/2023 7:25:00 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	2/2/2023 7:02:22 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/2/2023 7:02:22 PM
Surr: DNOP	123	69-147		%Rec	1	2/2/2023 7:02:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/1/2023 9:15:00 PM
Surr: BFB	99.5	37.7-212		%Rec	1	2/1/2023 9:15:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	2/1/2023 9:15:00 PM
Toluene	ND	0.049		mg/Kg	1	2/1/2023 9:15:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/1/2023 9:15:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/1/2023 9:15:00 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	2/1/2023 9:15:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	210	60		mg/Kg	20	2/2/2023 7:36:09 AM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301A36**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-113 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/25/2023 10:05:00 AM
Lab ID: 2301A36-002 **Matrix:** SOIL
Received Date: 1/27/2023 7:25:00 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	2/2/2023 7:12:57 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/2/2023 7:12:57 PM
Surr: DNOP	107	69-147		%Rec	1	2/2/2023 7:12:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/1/2023 9:35:00 PM
Surr: BFB	97.9	37.7-212		%Rec	1	2/1/2023 9:35:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	2/1/2023 9:35:00 PM
Toluene	ND	0.049		mg/Kg	1	2/1/2023 9:35:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/1/2023 9:35:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/1/2023 9:35:00 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	2/1/2023 9:35:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	2/2/2023 7:48:30 AM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301A36**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-114 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/25/2023 10:10:00 AM
Lab ID: 2301A36-003 **Matrix:** SOIL
Received Date: 1/27/2023 7:25:00 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	2/2/2023 7:23:29 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/2/2023 7:23:29 PM
Surr: DNOP	108	69-147		%Rec	1	2/2/2023 7:23:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/1/2023 9:55:00 PM
Surr: BFB	102	37.7-212		%Rec	1	2/1/2023 9:55:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/1/2023 9:55:00 PM
Toluene	ND	0.048		mg/Kg	1	2/1/2023 9:55:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/1/2023 9:55:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	2/1/2023 9:55:00 PM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	2/1/2023 9:55:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	2/1/2023 8:51:23 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301A36**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-115 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/25/2023 10:15:00 AM
Lab ID: 2301A36-004 **Matrix:** SOIL
Received Date: 1/27/2023 7:25:00 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	2/2/2023 7:44:19 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/2/2023 7:44:19 PM
Surr: DNOP	108	69-147		%Rec	1	2/2/2023 7:44:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/1/2023 10:14:00 PM
Surr: BFB	99.4	37.7-212		%Rec	1	2/1/2023 10:14:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/1/2023 10:14:00 PM
Toluene	ND	0.048		mg/Kg	1	2/1/2023 10:14:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/1/2023 10:14:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	2/1/2023 10:14:00 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	2/1/2023 10:14:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	63	60		mg/Kg	20	2/1/2023 9:03:48 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301A36**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-116 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/25/2023 10:20:00 AM
Lab ID: 2301A36-005 **Matrix:** SOIL
Received Date: 1/27/2023 7:25:00 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	2/2/2023 7:54:49 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/2/2023 7:54:49 PM
Surr: DNOP	108	69-147		%Rec	1	2/2/2023 7:54:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/1/2023 10:53:00 PM
Surr: BFB	98.7	37.7-212		%Rec	1	2/1/2023 10:53:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	2/1/2023 10:53:00 PM
Toluene	ND	0.050		mg/Kg	1	2/1/2023 10:53:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/1/2023 10:53:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/1/2023 10:53:00 PM
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	2/1/2023 10:53:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	2/1/2023 9:16:12 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301A36**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-117 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/25/2023 10:25:00 AM
Lab ID: 2301A36-006 **Matrix:** SOIL
Received Date: 1/27/2023 7:25:00 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	2/2/2023 8:05:24 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/2/2023 8:05:24 PM
Surr: DNOP	113	69-147		%Rec	1	2/2/2023 8:05:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/1/2023 11:13:00 PM
Surr: BFB	98.7	37.7-212		%Rec	1	2/1/2023 11:13:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	2/1/2023 11:13:00 PM
Toluene	ND	0.050		mg/Kg	1	2/1/2023 11:13:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/1/2023 11:13:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/1/2023 11:13:00 PM
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	2/1/2023 11:13:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	2/1/2023 9:28:36 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301A36**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-118 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/25/2023 10:30:00 AM
Lab ID: 2301A36-007 **Matrix:** SOIL
Received Date: 1/27/2023 7:25:00 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	2/2/2023 8:16:00 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/2/2023 8:16:00 PM
Surr: DNOP	109	69-147		%Rec	1	2/2/2023 8:16:00 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/1/2023 11:33:00 PM
Surr: BFB	102	37.7-212		%Rec	1	2/1/2023 11:33:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	2/1/2023 11:33:00 PM
Toluene	ND	0.050		mg/Kg	1	2/1/2023 11:33:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/1/2023 11:33:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/1/2023 11:33:00 PM
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	2/1/2023 11:33:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	430	60		mg/Kg	20	2/1/2023 9:41:01 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301A36**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-119 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/25/2023 10:35:00 AM
Lab ID: 2301A36-008 **Matrix:** SOIL
Received Date: 1/27/2023 7:25:00 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	2/2/2023 8:26:36 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/2/2023 8:26:36 PM
Surr: DNOP	112	69-147		%Rec	1	2/2/2023 8:26:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/1/2023 11:52:00 PM
Surr: BFB	98.5	37.7-212		%Rec	1	2/1/2023 11:52:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	2/1/2023 11:52:00 PM
Toluene	ND	0.050		mg/Kg	1	2/1/2023 11:52:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/1/2023 11:52:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/1/2023 11:52:00 PM
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	2/1/2023 11:52:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	71	60		mg/Kg	20	2/1/2023 9:53:26 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301A36**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Todd 36 State 1 Pasture
Lab ID: 2301A36-009 **Matrix:** SOIL

Client Sample ID: BES23-120 4'
Collection Date: 1/25/2023 10:40:00 AM
Received Date: 1/27/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/2/2023 8:37:12 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/2/2023 8:37:12 PM
Surr: DNOP	112	69-147		%Rec	1	2/2/2023 8:37:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/2/2023 12:12:00 AM
Surr: BFB	100	37.7-212		%Rec	1	2/2/2023 12:12:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	2/2/2023 12:12:00 AM
Toluene	ND	0.050		mg/Kg	1	2/2/2023 12:12:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/2/2023 12:12:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	2/2/2023 12:12:00 AM
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	2/2/2023 12:12:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	2/1/2023 10:05:51 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301A36**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-121 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/25/2023 10:45:00 AM
Lab ID: 2301A36-010 **Matrix:** SOIL
Received Date: 1/27/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/2/2023 8:47:48 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/2/2023 8:47:48 PM
Surr: DNOP	113	69-147		%Rec	1	2/2/2023 8:47:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/2/2023 12:31:00 AM
Surr: BFB	101	37.7-212		%Rec	1	2/2/2023 12:31:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/2/2023 12:31:00 AM
Toluene	ND	0.048		mg/Kg	1	2/2/2023 12:31:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/2/2023 12:31:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	2/2/2023 12:31:00 AM
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	2/2/2023 12:31:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	2/1/2023 10:18:16 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301A36**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Todd 36 State 1 Pasture
Lab ID: 2301A36-011 **Matrix:** SOIL

Client Sample ID: BES23-122 4'
Collection Date: 1/25/2023 10:50:00 AM
Received Date: 1/27/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	2/2/2023 8:58:23 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/2/2023 8:58:23 PM
Surr: DNOP	123	69-147		%Rec	1	2/2/2023 8:58:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/2/2023 12:51:00 AM
Surr: BFB	97.5	37.7-212		%Rec	1	2/2/2023 12:51:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/2/2023 12:51:00 AM
Toluene	ND	0.047		mg/Kg	1	2/2/2023 12:51:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	2/2/2023 12:51:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	2/2/2023 12:51:00 AM
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	2/2/2023 12:51:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	150	60		mg/Kg	20	2/1/2023 10:55:30 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301A36**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-123 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/25/2023 10:55:00 AM
Lab ID: 2301A36-012 **Matrix:** SOIL
Received Date: 1/27/2023 7:25:00 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	2/2/2023 9:08:58 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/2/2023 9:08:58 PM
Surr: DNOP	102	69-147		%Rec	1	2/2/2023 9:08:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/2/2023 1:10:00 AM
Surr: BFB	95.4	37.7-212		%Rec	1	2/2/2023 1:10:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	2/2/2023 1:10:00 AM
Toluene	ND	0.049		mg/Kg	1	2/2/2023 1:10:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/2/2023 1:10:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	2/2/2023 1:10:00 AM
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	2/2/2023 1:10:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	2/1/2023 11:07:55 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301A36**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-124 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/25/2023 11:00:00 AM
Lab ID: 2301A36-013 **Matrix:** SOIL
Received Date: 1/27/2023 7:25:00 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	2/3/2023 12:23:32 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/3/2023 12:23:32 PM
Surr: DNOP	103	69-147		%Rec	1	2/3/2023 12:23:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/2/2023 1:30:00 AM
Surr: BFB	98.3	37.7-212		%Rec	1	2/2/2023 1:30:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/2/2023 1:30:00 AM
Toluene	ND	0.048		mg/Kg	1	2/2/2023 1:30:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/2/2023 1:30:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	2/2/2023 1:30:00 AM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	2/2/2023 1:30:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	2/1/2023 11:20:21 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301A36**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-125 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/25/2023 11:05:00 AM
Lab ID: 2301A36-014 **Matrix:** SOIL
Received Date: 1/27/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/3/2023 12:34:08 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/3/2023 12:34:08 PM
Surr: DNOP	127	69-147		%Rec	1	2/3/2023 12:34:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/2/2023 1:49:00 AM
Surr: BFB	93.8	37.7-212		%Rec	1	2/2/2023 1:49:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	2/2/2023 1:49:00 AM
Toluene	ND	0.050		mg/Kg	1	2/2/2023 1:49:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/2/2023 1:49:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/2/2023 1:49:00 AM
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	2/2/2023 1:49:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	2/1/2023 11:32:45 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301A36**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Todd 36 State 1 Pasture
Lab ID: 2301A36-015 **Matrix:** SOIL

Client Sample ID: BES23-126 4'
Collection Date: 1/25/2023 11:10:00 AM
Received Date: 1/27/2023 7:25:00 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	2/3/2023 12:44:42 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/3/2023 12:44:42 PM
Surr: DNOP	97.1	69-147		%Rec	1	2/3/2023 12:44:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/2/2023 1:06:10 PM
Surr: BFB	105	37.7-212		%Rec	1	2/2/2023 1:06:10 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/2/2023 1:06:10 PM
Toluene	ND	0.048		mg/Kg	1	2/2/2023 1:06:10 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/2/2023 1:06:10 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/2/2023 1:06:10 PM
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	2/2/2023 1:06:10 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	ND	60		mg/Kg	20	2/1/2023 5:23:53 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301A36**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-127 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/25/2023 11:15:00 AM
Lab ID: 2301A36-016 **Matrix:** SOIL
Received Date: 1/27/2023 7:25:00 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	2/3/2023 1:16:18 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/3/2023 1:16:18 PM
Surr: DNOP	101	69-147		%Rec	1	2/3/2023 1:16:18 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/2/2023 2:16:51 PM
Surr: BFB	105	37.7-212		%Rec	1	2/2/2023 2:16:51 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/2/2023 2:16:51 PM
Toluene	ND	0.049		mg/Kg	1	2/2/2023 2:16:51 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/2/2023 2:16:51 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/2/2023 2:16:51 PM
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	2/2/2023 2:16:51 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	120	59		mg/Kg	20	2/1/2023 6:02:29 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 Quanitative 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#: **2301A36**

09-Feb-23

Client: Devon Energy

Project: Todd 36 State 1 Pasture

Sample ID:	**MB-72955**	SampType:	**mblk**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**72955**	RunNo:	**94345**					
Prep Date:	**2/1/2023**	Analysis Date:	**2/1/2023**	SeqNo:	**3408126**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID:	**LCS-72955**	SampType:	**lcs**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**72955**	RunNo:	**94345**					
Prep Date:	**2/1/2023**	Analysis Date:	**2/1/2023**	SeqNo:	**3408127**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

Sample ID:	**MB-72951**	SampType:	**mblk**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**72951**	RunNo:	**94346**					
Prep Date:	**2/1/2023**	Analysis Date:	**2/1/2023**	SeqNo:	**3408204**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID:	**LCS-72951**	SampType:	**lcs**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**72951**	RunNo:	**94346**					
Prep Date:	**2/1/2023**	Analysis Date:	**2/1/2023**	SeqNo:	**3408205**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.9	90	110			

Sample ID:	**MB-72957**	SampType:	**mblk**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**72957**	RunNo:	**94349**					
Prep Date:	**2/1/2023**	Analysis Date:	**2/2/2023**	SeqNo:	**3408334**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID:	**LCS-72957**	SampType:	**lcs**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**72957**	RunNo:	**94349**					
Prep Date:	**2/1/2023**	Analysis Date:	**2/2/2023**	SeqNo:	**3408335**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.7	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2301A36**

09-Feb-23

Client: Devon Energy

Project: Todd 36 State 1 Pasture

Sample ID: **LCS-72933**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **72933**	RunNo: **94358**
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3408806** 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	90.4	61.9	130			
Surr: DNOP	5.3		5.000		106	69	147			

Sample ID: **LCS-72937**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **72937**	RunNo: **94358**
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3408807** 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	89.8	61.9	130			
Surr: DNOP	5.1		5.000		102	69	147			

Sample ID: **MB-72933**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **72933**	RunNo: **94358**
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3408811** 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		103	69	147			

Sample ID: **MB-72937**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **72937**	RunNo: **94358**
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3408812** 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	9.6		10.00		96.4	69	147			

Sample ID: **2301A36-015AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BES23-126 4'**	Batch ID: **72937**	RunNo: **94392**
Prep Date: **2/1/2023**	Analysis Date: **2/3/2023**	SeqNo: **3409793** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.7	48.69	0	90.1	54.2	135			
Surr: DNOP	5.5		4.869		113	69	147			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2301A36**

09-Feb-23

Client: Devon Energy

Project: Todd 36 State 1 Pasture

Sample ID: **2301A36-015AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BES23-126 4'**	Batch ID: **72937**	RunNo: **94392**
Prep Date: **2/1/2023**	Analysis Date: **2/3/2023**	SeqNo: **3409794** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.7	48.54	0	102	54.2	135	12.2	29.2	
Surr: DNOP	6.6		4.854		137	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 Quanitative 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#: **2301A36**

09-Feb-23

Client: Devon Energy

Project: Todd 36 State 1 Pasture

Sample ID: **lcs-72924**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **72924**	RunNo: **94327**							
Prep Date: **1/31/2023**	Analysis Date: **2/1/2023**	SeqNo: **3407946**	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	109	72.3	137			
Surr: BFB	1200		1000		116	37.7	212			

Sample ID: **mb-72924**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **72924**	RunNo: **94327**							
Prep Date: **1/31/2023**	Analysis Date: **2/1/2023**	SeqNo: **3407948**	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		105	37.7	212			

Sample ID: **lcs-72935**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **72935**	RunNo: **94356**							
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3408765**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	114	72.3	137			
Surr: BFB	1200		1000		117	37.7	212			

Sample ID: **mb-72935**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **72935**	RunNo: **94356**							
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3408766**	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	37.7	212			

Sample ID: **2301a36-015ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **BES23-126 4'**	Batch ID: **72935**	RunNo: **94356**							
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3408770**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.8	23.90	0	127	70	130			
Surr: BFB	1100		956.0		115	37.7	212			

Sample ID: **2301a36-015amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **BES23-126 4'**	Batch ID: **72935**	RunNo: **94356**							
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3408887**	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2301A36**

09-Feb-23

Client: Devon Energy

Project: Todd 36 State 1 Pasture

Sample ID: **2301a36-015amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BES23-126 4'**	Batch ID: **72935**	RunNo: **94356**
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3408887** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.8	23.88	0	119	70	130	6.51	20	
Surr: BFB	1100		955.1		114	37.7	212	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2301A36**

09-Feb-23

Client: Devon Energy

Project: Todd 36 State 1 Pasture

Sample ID: **lcs-72924**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **72924**	RunNo: **94327**
Prep Date: **1/31/2023**	Analysis Date: **2/1/2023**	SeqNo: **3408002** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.6	80	120			
Toluene	0.97	0.050	1.000	0	97.1	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.5	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Sample ID: **mb-72924**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **72924**	RunNo: **94327**
Prep Date: **1/31/2023**	Analysis Date: **2/1/2023**	SeqNo: **3408003** 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		104	70	130			

Sample ID: **LCS-72935**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **72935**	RunNo: **94356**
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3408773** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	86.6	80	120			
Toluene	0.89	0.050	1.000	0	88.9	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.2	80	120			
Xylenes, Total	2.7	0.10	3.000	0	88.7	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.0	70	130			

Sample ID: **mb-72935**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **72935**	RunNo: **94356**
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3408774** 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		96.5	70	130			

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 Quanitative 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#: **2301A36**

09-Feb-23

Client: Devon Energy

Project: Todd 36 State 1 Pasture

Sample ID: **2301a36-016ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BES23-127 4'**	Batch ID: **72935**	RunNo: **94356**
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3408916** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.024	0.9756	0	94.3	68.8	120			
Toluene	0.95	0.049	0.9756	0.01745	95.5	73.6	124			
Ethylbenzene	0.95	0.049	0.9756	0	97.8	72.7	129			
Xylenes, Total	2.9	0.098	2.927	0.02797	97.4	75.7	126			
Surr: 4-Bromofluorobenzene	0.95		0.9756		97.2	70	130			

Sample ID: **2301a36-016amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BES23-127 4'**	Batch ID: **72935**	RunNo: **94356**
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3408917** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9681	0	93.9	68.8	120	1.11	20	
Toluene	0.94	0.048	0.9681	0.01745	95.7	73.6	124	0.552	20	
Ethylbenzene	0.96	0.048	0.9681	0	99.7	72.7	129	1.08	20	
Xylenes, Total	2.9	0.097	2.904	0.02797	98.7	75.7	126	0.522	20	
Surr: 4-Bromofluorobenzene	0.93		0.9681		95.9	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Devon Energy | Work Order Number: 2301A36 | RcptNo: 1

Received By: Juan Rojas 1/27/2023 7:25:00 AM

Completed By: Tracy Casarrubias 1/27/2023 8:15:33 AM

Reviewed By: KPG 1-27-23

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° 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: JA 1-27-23

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	0.2	Good	Yes	Yogi		
2	0.5	Good	Yes	Yogi		

Received by OCD: 1/21/2026 6:39:41 AM

Released to Imaging: 3/18/2026 3:36:11 PM

Chain-of-Custody Record

Client: Devon (Vertex)

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: ToJJ 36 State 1 "Pasture"

Project #: 21E-02816

Project Manager: Kent Stallings

Sampler: J. Reta

On Ice: ☒ Yes ☐ No

# of Coolers: 2 Yogi

Cooler Temp(including CF): 0.8-0.3=0.5 (°C) 0.4-0.3=0.1

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. 2301A36	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)
01/25/23	10:00	Soil	BES23-112 4'	4oz Jar	Ice	001										
	10:05		BES23-113 4'			002										
	10:10		BES23-114 4'			003										
	10:15		BES23-115 4'			004										
	10:20		BES23-116 4'			005										
	10:25		BES23-117 4'			006										
	10:30		BES23-118 4'			007										
	10:35		BES23-119 4'			008										
	10:40		BES23-120 4'			009										
	10:45		BES23-121 4'			010										
	10:50		BES23-122 4'			011										
	10:55		BES23-123 4'			012										

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
01/25/23	16:50	J. Reta	[signature]		1/26/23	915
1/26/23	1900	[signature]	[signature]	Courier	1/27/23	7:25

Remarks: Direct Bill to Devon
cc: Monica Peppin & Jacob Reta
Devon/Harvard.

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: Devon (Vertex)

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: Todd 36 State 1 "Pasture"

Project #: 2E-02816

Project Manager: Kent Stallings

Sampler: J. Reta

On Ice: ☒ Yes ☐ No

# of Coolers: 2 4oz.

Cooler Temp(including CF): 0.8-0.3=0.5 (°C) 0.4-0.3=0.1

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. 2301A36	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)
01/26/23	11:00	Soil	BES23-124 4'	4oz Jare	Ice	013										
	11:05		BES23-125 4'			014										
	11:10		BES23-126 4'			015										
	11:15		BES23-127 4'			016										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
01/25/23	16:50	J. Reta				
1/26/23	910			courier	1/27/23	7:12

Remarks: Direct Bill to Devon
cc: Monica Peppin & Jorcola Reta

Devon/Harvard.

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

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

February 09, 2023

Kent Stallings

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

RE: Todd 36 State 1 Pasture OrderNo.: 2301A80

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 27 sample(s) on 1/28/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2301A80**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-128 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/26/2023 10:00:00 AM
Lab ID: 2301A80-001 **Matrix:** SOIL
Received Date: 1/28/2023 8:00:00 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	2/3/2023 1:26:51 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/3/2023 1:26:51 PM
Surr: DNOP	108	69-147		%Rec	1	2/3/2023 1:26:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/2/2023 9:21:52 PM
Surr: BFB	105	37.7-212		%Rec	1	2/2/2023 9:21:52 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	2/2/2023 9:21:52 PM
Toluene	ND	0.050		mg/Kg	1	2/2/2023 9:21:52 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/2/2023 9:21:52 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/2/2023 9:21:52 PM
Surr: 4-Bromofluorobenzene	95.7	70-130		%Rec	1	2/2/2023 9:21:52 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	99	60		mg/Kg	20	2/1/2023 10:32:39 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301A80**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-129 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/26/2023 10:05:00 AM
Lab ID: 2301A80-002 **Matrix:** SOIL
Received Date: 1/28/2023 8:00:00 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	2/3/2023 1:37:27 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/3/2023 1:37:27 PM
Surr: DNOP	111	69-147		%Rec	1	2/3/2023 1:37:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/2/2023 9:45:26 PM
Surr: BFB	102	37.7-212		%Rec	1	2/2/2023 9:45:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/2/2023 9:45:26 PM
Toluene	ND	0.048		mg/Kg	1	2/2/2023 9:45:26 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/2/2023 9:45:26 PM
Xylenes, Total	ND	0.096		mg/Kg	1	2/2/2023 9:45:26 PM
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	2/2/2023 9:45:26 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	390	60		mg/Kg	20	2/1/2023 10:45:32 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301A80**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-130 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/26/2023 10:10:00 AM
Lab ID: 2301A80-003 **Matrix:** SOIL
Received Date: 1/28/2023 8:00:00 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	2/3/2023 1:48:02 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/3/2023 1:48:02 PM
Surr: DNOP	138	69-147		%Rec	1	2/3/2023 1:48:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/2/2023 10:08:54 PM
Surr: BFB	106	37.7-212		%Rec	1	2/2/2023 10:08:54 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/2/2023 10:08:54 PM
Toluene	ND	0.049		mg/Kg	1	2/2/2023 10:08:54 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/2/2023 10:08:54 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/2/2023 10:08:54 PM
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	2/2/2023 10:08:54 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	120	61		mg/Kg	20	2/1/2023 10:58:24 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301A80**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-131 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/26/2023 10:15:00 AM
Lab ID: 2301A80-004 **Matrix:** SOIL
Received Date: 1/28/2023 8:00:00 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	2/3/2023 1:58:35 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/3/2023 1:58:35 PM
Surr: DNOP	115	69-147		%Rec	1	2/3/2023 1:58:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/2/2023 10:32:20 PM
Surr: BFB	101	37.7-212		%Rec	1	2/2/2023 10:32:20 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/2/2023 10:32:20 PM
Toluene	ND	0.049		mg/Kg	1	2/2/2023 10:32:20 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/2/2023 10:32:20 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/2/2023 10:32:20 PM
Surr: 4-Bromofluorobenzene	92.3	70-130		%Rec	1	2/2/2023 10:32:20 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	90	61		mg/Kg	20	2/1/2023 11:11:16 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301A80**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-132 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/26/2023 10:20:00 AM
Lab ID: 2301A80-005 **Matrix:** SOIL
Received Date: 1/28/2023 8:00:00 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	2/3/2023 4:37:06 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/3/2023 4:37:06 PM
Surr: DNOP	109	69-147		%Rec	1	2/3/2023 4:37:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/3/2023 12:52:50 AM
Surr: BFB	104	37.7-212		%Rec	1	2/3/2023 12:52:50 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	2/3/2023 12:52:50 AM
Toluene	ND	0.050		mg/Kg	1	2/3/2023 12:52:50 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/3/2023 12:52:50 AM
Xylenes, Total	ND	0.10		mg/Kg	1	2/3/2023 12:52:50 AM
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	1	2/3/2023 12:52:50 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	1300	60		mg/Kg	20	2/2/2023 1:26:53 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301A80**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-133 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/26/2023 10:25:00 AM
Lab ID: 2301A80-006 **Matrix:** SOIL
Received Date: 1/28/2023 8:00:00 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	2/3/2023 5:08:55 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/3/2023 5:08:55 PM
Surr: DNOP	109	69-147		%Rec	1	2/3/2023 5:08:55 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/3/2023 2:02:58 AM
Surr: BFB	102	37.7-212		%Rec	1	2/3/2023 2:02:58 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/3/2023 2:02:58 AM
Toluene	ND	0.047		mg/Kg	1	2/3/2023 2:02:58 AM
Ethylbenzene	ND	0.047		mg/Kg	1	2/3/2023 2:02:58 AM
Xylenes, Total	ND	0.095		mg/Kg	1	2/3/2023 2:02:58 AM
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	2/3/2023 2:02:58 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	580	60		mg/Kg	20	2/2/2023 2:04:07 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301A80**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-134 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/26/2023 10:30:00 AM
Lab ID: 2301A80-007 **Matrix:** SOIL
Received Date: 1/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/3/2023 5:19:32 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/3/2023 5:19:32 PM
Surr: DNOP	109	69-147		%Rec	1	2/3/2023 5:19:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/3/2023 3:13:12 AM
Surr: BFB	104	37.7-212		%Rec	1	2/3/2023 3:13:12 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.023		mg/Kg	1	2/3/2023 3:13:12 AM
Toluene	ND	0.047		mg/Kg	1	2/3/2023 3:13:12 AM
Ethylbenzene	ND	0.047		mg/Kg	1	2/3/2023 3:13:12 AM
Xylenes, Total	ND	0.094		mg/Kg	1	2/3/2023 3:13:12 AM
Surr: 4-Bromofluorobenzene	94.9	70-130		%Rec	1	2/3/2023 3:13:12 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	140	60		mg/Kg	20	2/2/2023 3:06:11 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301A80**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-135 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/26/2023 10:35:00 AM
Lab ID: 2301A80-008 **Matrix:** SOIL
Received Date: 1/28/2023 8:00:00 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	2/3/2023 5:30:12 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/3/2023 5:30:12 PM
Surr: DNOP	113	69-147		%Rec	1	2/3/2023 5:30:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/3/2023 3:36:34 AM
Surr: BFB	99.2	37.7-212		%Rec	1	2/3/2023 3:36:34 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/3/2023 3:36:34 AM
Toluene	ND	0.047		mg/Kg	1	2/3/2023 3:36:34 AM
Ethylbenzene	ND	0.047		mg/Kg	1	2/3/2023 3:36:34 AM
Xylenes, Total	ND	0.094		mg/Kg	1	2/3/2023 3:36:34 AM
Surr: 4-Bromofluorobenzene	90.9	70-130		%Rec	1	2/3/2023 3:36:34 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	ND	60		mg/Kg	20	2/2/2023 3:18:36 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301A80**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-136 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/26/2023 10:40:00 AM
Lab ID: 2301A80-009 **Matrix:** SOIL
Received Date: 1/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/3/2023 5:40:51 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/3/2023 5:40:51 PM
Surr: DNOP	108	69-147		%Rec	1	2/3/2023 5:40:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/3/2023 4:00:17 AM
Surr: BFB	98.9	37.7-212		%Rec	1	2/3/2023 4:00:17 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/3/2023 4:00:17 AM
Toluene	ND	0.047		mg/Kg	1	2/3/2023 4:00:17 AM
Ethylbenzene	ND	0.047		mg/Kg	1	2/3/2023 4:00:17 AM
Xylenes, Total	ND	0.094		mg/Kg	1	2/3/2023 4:00:17 AM
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	2/3/2023 4:00:17 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	500	60		mg/Kg	20	2/2/2023 3:31:01 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301A80**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-137 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/26/2023 10:45:00 AM
Lab ID: 2301A80-010 **Matrix:** SOIL
Received Date: 1/28/2023 8:00:00 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	2/3/2023 5:51:39 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/3/2023 5:51:39 PM
Surr: DNOP	97.0	69-147		%Rec	1	2/3/2023 5:51:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/3/2023 4:23:34 AM
Surr: BFB	104	37.7-212		%Rec	1	2/3/2023 4:23:34 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/3/2023 4:23:34 AM
Toluene	ND	0.048		mg/Kg	1	2/3/2023 4:23:34 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/3/2023 4:23:34 AM
Xylenes, Total	ND	0.096		mg/Kg	1	2/3/2023 4:23:34 AM
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	2/3/2023 4:23:34 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	ND	60		mg/Kg	20	2/2/2023 3:43:26 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301A80**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-138 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/26/2023 10:50:00 AM
Lab ID: 2301A80-011 **Matrix:** SOIL
Received Date: 1/28/2023 8:00:00 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	2/3/2023 6:02:26 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/3/2023 6:02:26 PM
Surr: DNOP	111	69-147		%Rec	1	2/3/2023 6:02:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/3/2023 4:47:21 AM
Surr: BFB	98.2	37.7-212		%Rec	1	2/3/2023 4:47:21 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/3/2023 4:47:21 AM
Toluene	ND	0.048		mg/Kg	1	2/3/2023 4:47:21 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/3/2023 4:47:21 AM
Xylenes, Total	ND	0.096		mg/Kg	1	2/3/2023 4:47:21 AM
Surr: 4-Bromofluorobenzene	88.8	70-130		%Rec	1	2/3/2023 4:47:21 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	ND	60		mg/Kg	20	2/2/2023 3:55:51 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301A80**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-139 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/26/2023 10:55:00 AM
Lab ID: 2301A80-012 **Matrix:** SOIL
Received Date: 1/28/2023 8:00:00 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	2/3/2023 6:13:11 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/3/2023 6:13:11 PM
Surr: DNOP	108	69-147		%Rec	1	2/3/2023 6:13:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/3/2023 5:10:42 AM
Surr: BFB	99.7	37.7-212		%Rec	1	2/3/2023 5:10:42 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	2/3/2023 5:10:42 AM
Toluene	ND	0.050		mg/Kg	1	2/3/2023 5:10:42 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/3/2023 5:10:42 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/3/2023 5:10:42 AM
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	2/3/2023 5:10:42 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	ND	60		mg/Kg	20	2/2/2023 4:08:15 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301A80**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-140 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/26/2023 11:00:00 AM
Lab ID: 2301A80-013 **Matrix:** SOIL
Received Date: 1/28/2023 8:00:00 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	2/3/2023 6:23:54 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/3/2023 6:23:54 PM
Surr: DNOP	104	69-147		%Rec	1	2/3/2023 6:23:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/3/2023 5:34:08 AM
Surr: BFB	102	37.7-212		%Rec	1	2/3/2023 5:34:08 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/3/2023 5:34:08 AM
Toluene	ND	0.049		mg/Kg	1	2/3/2023 5:34:08 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/3/2023 5:34:08 AM
Xylenes, Total	ND	0.098		mg/Kg	1	2/3/2023 5:34:08 AM
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	2/3/2023 5:34:08 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	ND	60		mg/Kg	20	2/2/2023 4:20:40 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301A80**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-141 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/26/2023 11:05:00 AM
Lab ID: 2301A80-014 **Matrix:** SOIL
Received Date: 1/28/2023 8:00:00 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	2/3/2023 6:44:58 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/3/2023 6:44:58 PM
Surr: DNOP	103	69-147		%Rec	1	2/3/2023 6:44:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/3/2023 5:57:27 AM
Surr: BFB	103	37.7-212		%Rec	1	2/3/2023 5:57:27 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	2/3/2023 5:57:27 AM
Toluene	ND	0.049		mg/Kg	1	2/3/2023 5:57:27 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/3/2023 5:57:27 AM
Xylenes, Total	ND	0.098		mg/Kg	1	2/3/2023 5:57:27 AM
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	1	2/3/2023 5:57:27 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	ND	60		mg/Kg	20	2/2/2023 4:33:06 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301A80**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-142 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/26/2023 11:10:00 AM
Lab ID: 2301A80-015 **Matrix:** SOIL
Received Date: 1/28/2023 8:00:00 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	2/3/2023 6:55:38 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/3/2023 6:55:38 PM
Surr: DNOP	101	69-147		%Rec	1	2/3/2023 6:55:38 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/3/2023 10:20:51 AM
Surr: BFB	99.0	37.7-212		%Rec	1	2/3/2023 10:20:51 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.023		mg/Kg	1	2/3/2023 10:20:51 AM
Toluene	ND	0.047		mg/Kg	1	2/3/2023 10:20:51 AM
Ethylbenzene	ND	0.047		mg/Kg	1	2/3/2023 10:20:51 AM
Xylenes, Total	ND	0.094		mg/Kg	1	2/3/2023 10:20:51 AM
Surr: 4-Bromofluorobenzene	91.7	70-130		%Rec	1	2/3/2023 10:20:51 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	ND	60		mg/Kg	20	2/2/2023 5:10:20 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301A80**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-143 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/26/2023 11:15:00 AM
Lab ID: 2301A80-016 **Matrix:** SOIL
Received Date: 1/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	2/3/2023 7:06:15 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	2/3/2023 7:06:15 PM
Surr: DNOP	105	69-147		%Rec	1	2/3/2023 7:06:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/3/2023 10:44:21 AM
Surr: BFB	99.9	37.7-212		%Rec	1	2/3/2023 10:44:21 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.023		mg/Kg	1	2/3/2023 10:44:21 AM
Toluene	ND	0.047		mg/Kg	1	2/3/2023 10:44:21 AM
Ethylbenzene	ND	0.047		mg/Kg	1	2/3/2023 10:44:21 AM
Xylenes, Total	ND	0.093		mg/Kg	1	2/3/2023 10:44:21 AM
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	2/3/2023 10:44:21 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	ND	60		mg/Kg	20	2/2/2023 5:22:45 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301A80**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-144 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/26/2023 11:20:00 AM
Lab ID: 2301A80-017 **Matrix:** SOIL
Received Date: 1/28/2023 8:00:00 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	2/3/2023 7:16:52 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/3/2023 7:16:52 PM
Surr: DNOP	103	69-147		%Rec	1	2/3/2023 7:16:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/3/2023 11:07:51 AM
Surr: BFB	104	37.7-212		%Rec	1	2/3/2023 11:07:51 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/3/2023 11:07:51 AM
Toluene	ND	0.049		mg/Kg	1	2/3/2023 11:07:51 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/3/2023 11:07:51 AM
Xylenes, Total	ND	0.098		mg/Kg	1	2/3/2023 11:07:51 AM
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	2/3/2023 11:07:51 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	ND	60		mg/Kg	20	2/2/2023 5:35:10 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301A80**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-145 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/26/2023 11:25:00 AM
Lab ID: 2301A80-018 **Matrix:** SOIL
Received Date: 1/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/3/2023 7:27:26 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/3/2023 7:27:26 PM
Surr: DNOP	102	69-147		%Rec	1	2/3/2023 7:27:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/3/2023 11:31:28 AM
Surr: BFB	105	37.7-212		%Rec	1	2/3/2023 11:31:28 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/3/2023 11:31:28 AM
Toluene	ND	0.049		mg/Kg	1	2/3/2023 11:31:28 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/3/2023 11:31:28 AM
Xylenes, Total	ND	0.097		mg/Kg	1	2/3/2023 11:31:28 AM
Surr: 4-Bromofluorobenzene	94.7	70-130		%Rec	1	2/3/2023 11:31:28 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	ND	60		mg/Kg	20	2/2/2023 5:47:35 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301A80**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-146 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/26/2023 11:30:00 AM
Lab ID: 2301A80-019 **Matrix:** SOIL
Received Date: 1/28/2023 8:00:00 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	2/3/2023 7:38:00 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/3/2023 7:38:00 PM
Surr: DNOP	102	69-147		%Rec	1	2/3/2023 7:38:00 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/3/2023 11:55:04 AM
Surr: BFB	104	37.7-212		%Rec	1	2/3/2023 11:55:04 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/3/2023 11:55:04 AM
Toluene	ND	0.048		mg/Kg	1	2/3/2023 11:55:04 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/3/2023 11:55:04 AM
Xylenes, Total	ND	0.095		mg/Kg	1	2/3/2023 11:55:04 AM
Surr: 4-Bromofluorobenzene	94.9	70-130		%Rec	1	2/3/2023 11:55:04 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	280	60		mg/Kg	20	2/2/2023 6:00:00 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301A80**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-147 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/26/2023 11:35:00 AM
Lab ID: 2301A80-020 **Matrix:** SOIL
Received Date: 1/28/2023 8:00:00 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	2/3/2023 7:48:32 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/3/2023 7:48:32 PM
Surr: DNOP	104	69-147		%Rec	1	2/3/2023 7:48:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/3/2023 12:18:33 PM
Surr: BFB	105	37.7-212		%Rec	1	2/3/2023 12:18:33 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.023		mg/Kg	1	2/3/2023 12:18:33 PM
Toluene	ND	0.047		mg/Kg	1	2/3/2023 12:18:33 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/3/2023 12:18:33 PM
Xylenes, Total	ND	0.093		mg/Kg	1	2/3/2023 12:18:33 PM
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	2/3/2023 12:18:33 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	380	61		mg/Kg	20	2/2/2023 6:12:24 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301A80**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-148 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/26/2023 11:40:00 AM
Lab ID: 2301A80-021 **Matrix:** SOIL
Received Date: 1/28/2023 8:00:00 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	2/3/2023 7:59:05 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/3/2023 7:59:05 PM
Surr: DNOP	80.5	69-147		%Rec	1	2/3/2023 7:59:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/3/2023 12:41:53 PM
Surr: BFB	101	37.7-212		%Rec	1	2/3/2023 12:41:53 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/3/2023 12:41:53 PM
Toluene	ND	0.047		mg/Kg	1	2/3/2023 12:41:53 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/3/2023 12:41:53 PM
Xylenes, Total	ND	0.094		mg/Kg	1	2/3/2023 12:41:53 PM
Surr: 4-Bromofluorobenzene	91.1	70-130		%Rec	1	2/3/2023 12:41:53 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	1600	60		mg/Kg	20	2/2/2023 6:24:48 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301A80**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-149 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/26/2023 11:45:00 AM
Lab ID: 2301A80-022 **Matrix:** SOIL
Received Date: 1/28/2023 8:00:00 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	2/3/2023 8:09:41 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/3/2023 8:09:41 PM
Surr: DNOP	102	69-147		%Rec	1	2/3/2023 8:09:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/3/2023 1:05:12 PM
Surr: BFB	105	37.7-212		%Rec	1	2/3/2023 1:05:12 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.023		mg/Kg	1	2/3/2023 1:05:12 PM
Toluene	ND	0.047		mg/Kg	1	2/3/2023 1:05:12 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/3/2023 1:05:12 PM
Xylenes, Total	ND	0.094		mg/Kg	1	2/3/2023 1:05:12 PM
Surr: 4-Bromofluorobenzene	94.9	70-130		%Rec	1	2/3/2023 1:05:12 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	1500	60		mg/Kg	20	2/2/2023 6:37:12 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301A80**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-150 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/26/2023 11:50:00 AM
Lab ID: 2301A80-023 **Matrix:** SOIL
Received Date: 1/28/2023 8:00:00 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	2/3/2023 8:20:19 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/3/2023 8:20:19 PM
Surr: DNOP	101	69-147		%Rec	1	2/3/2023 8:20:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/3/2023 1:28:39 PM
Surr: BFB	108	37.7-212		%Rec	1	2/3/2023 1:28:39 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/3/2023 1:28:39 PM
Toluene	ND	0.047		mg/Kg	1	2/3/2023 1:28:39 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/3/2023 1:28:39 PM
Xylenes, Total	ND	0.095		mg/Kg	1	2/3/2023 1:28:39 PM
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	2/3/2023 1:28:39 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	1200	60		mg/Kg	20	2/2/2023 6:49:36 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301A80**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-151 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/26/2023 11:55:00 AM
Lab ID: 2301A80-024 **Matrix:** SOIL
Received Date: 1/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	2/3/2023 8:30:58 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	2/3/2023 8:30:58 PM
Surr: DNOP	102	69-147		%Rec	1	2/3/2023 8:30:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/3/2023 1:51:58 PM
Surr: BFB	105	37.7-212		%Rec	1	2/3/2023 1:51:58 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.023		mg/Kg	1	2/3/2023 1:51:58 PM
Toluene	ND	0.047		mg/Kg	1	2/3/2023 1:51:58 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/3/2023 1:51:58 PM
Xylenes, Total	ND	0.094		mg/Kg	1	2/3/2023 1:51:58 PM
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	2/3/2023 1:51:58 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	240	60		mg/Kg	20	2/2/2023 7:02:01 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301A80**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-152 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/26/2023 12:00:00 PM
Lab ID: 2301A80-025 **Matrix:** SOIL
Received Date: 1/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/3/2023 8:52:07 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/3/2023 8:52:07 PM
Surr: DNOP	120	69-147		%Rec	1	2/3/2023 8:52:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/2/2023 11:19:00 PM
Surr: BFB	99.6	37.7-212		%Rec	1	2/2/2023 11:19:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	2/2/2023 11:19:00 PM
Toluene	ND	0.049		mg/Kg	1	2/2/2023 11:19:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/2/2023 11:19:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/2/2023 11:19:00 PM
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	2/2/2023 11:19:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	410	60		mg/Kg	20	2/2/2023 3:37:57 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301A80**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Todd 36 State 1 Pasture
Lab ID: 2301A80-026 **Matrix:** SOIL

Client Sample ID: BES23-153 4'
Collection Date: 1/26/2023 12:05:00 PM
Received Date: 1/28/2023 8:00:00 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	2/3/2023 9:23:52 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/3/2023 9:23:52 PM
Surr: DNOP	131	69-147		%Rec	1	2/3/2023 9:23:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/3/2023 12:18:00 AM
Surr: BFB	97.8	37.7-212		%Rec	1	2/3/2023 12:18:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/3/2023 12:18:00 AM
Toluene	ND	0.048		mg/Kg	1	2/3/2023 12:18:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/3/2023 12:18:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	2/3/2023 12:18:00 AM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	2/3/2023 12:18:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	1500	60		mg/Kg	20	2/2/2023 4:16:33 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301A80**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-154 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/26/2023 12:10:00 PM
Lab ID: 2301A80-027 **Matrix:** SOIL
Received Date: 1/28/2023 8:00:00 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	2/3/2023 9:34:22 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/3/2023 9:34:22 PM
Surr: DNOP	124	69-147		%Rec	1	2/3/2023 9:34:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/3/2023 1:17:00 AM
Surr: BFB	99.2	37.7-212		%Rec	1	2/3/2023 1:17:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/3/2023 1:17:00 AM
Toluene	ND	0.049		mg/Kg	1	2/3/2023 1:17:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/3/2023 1:17:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	2/3/2023 1:17:00 AM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	2/3/2023 1:17:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	340	60		mg/Kg	20	2/2/2023 4:55:10 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 Quanitative 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#: **2301A80**

09-Feb-23

Client: Devon Energy

Project: Todd 36 State 1 Pasture

Sample ID: **MB-72955**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**								
Client ID: **PBS**	Batch ID: **72955**	RunNo: **94345**								
Prep Date: **2/1/2023**	Analysis Date: **2/1/2023**	SeqNo: **3408126**	Units: **mg/Kg**							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-72955**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**								
Client ID: **LCSS**	Batch ID: **72955**	RunNo: **94345**								
Prep Date: **2/1/2023**	Analysis Date: **2/1/2023**	SeqNo: **3408127**	Units: **mg/Kg**							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

Sample ID: **MB-72972**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**								
Client ID: **PBS**	Batch ID: **72972**	RunNo: **94379**								
Prep Date: **2/2/2023**	Analysis Date: **2/2/2023**	SeqNo: **3409530**	Units: **mg/Kg**							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-72972**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**								
Client ID: **LCSS**	Batch ID: **72972**	RunNo: **94379**								
Prep Date: **2/2/2023**	Analysis Date: **2/2/2023**	SeqNo: **3409531**	Units: **mg/Kg**							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.1	90	110			

Sample ID: **MB-72965**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**								
Client ID: **PBS**	Batch ID: **72965**	RunNo: **94396**								
Prep Date: **2/2/2023**	Analysis Date: **2/2/2023**	SeqNo: **3409905**	Units: **mg/Kg**							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-72965**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**								
Client ID: **LCSS**	Batch ID: **72965**	RunNo: **94425**								
Prep Date: **2/2/2023**	Analysis Date: **2/3/2023**	SeqNo: **3411590**	Units: **mg/Kg**							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.6	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2301A80**

09-Feb-23

Client: Devon Energy

Project: Todd 36 State 1 Pasture

Sample ID: **LCS-72937**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **72937**	RunNo: **94358**
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3408807** 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	89.8	61.9	130			
Surr: DNOP	5.1		5.000		102	69	147			

Sample ID: **LCS-72938**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **72938**	RunNo: **94358**
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3408808** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.0	61.9	130			
Surr: DNOP	4.6		5.000		91.2	69	147			

Sample ID: **LCS-72946**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **72946**	RunNo: **94358**
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3408809** 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	6.4		5.000		128	69	147			

Sample ID: **MB-72937**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **72937**	RunNo: **94358**
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3408812** 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	9.6		10.00		96.4	69	147			

Sample ID: **MB-72938**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **72938**	RunNo: **94358**
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3408813** 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		88.9	69	147			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2301A80**

09-Feb-23

Client: Devon Energy

Project: Todd 36 State 1 Pasture

Sample ID: **MB-72946**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **72946**	RunNo: **94358**
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3408814** 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	13		10.00		130	69	147			

Sample ID: **2301A80-005AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BES23-132 4'**	Batch ID: **72938**	RunNo: **94392**
Prep Date: **2/1/2023**	Analysis Date: **2/3/2023**	SeqNo: **3410952** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.4	47.17	0	87.7	54.2	135			
Surr: DNOP	5.1		4.717		107	69	147			

Sample ID: **2301A80-005AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BES23-132 4'**	Batch ID: **72938**	RunNo: **94392**
Prep Date: **2/1/2023**	Analysis Date: **2/3/2023**	SeqNo: **3410953** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.9	49.70	0	93.8	54.2	135	11.9	29.2	
Surr: DNOP	5.6		4.970		113	69	147	0	0	

Sample ID: **2301A80-025AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BES23-152 4'**	Batch ID: **72946**	RunNo: **94392**
Prep Date: **2/1/2023**	Analysis Date: **2/3/2023**	SeqNo: **3410974** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.5	47.48	0	92.3	54.2	135			
Surr: DNOP	5.3		4.748		112	69	147			

Sample ID: **2301A80-025AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BES23-152 4'**	Batch ID: **72946**	RunNo: **94392**
Prep Date: **2/1/2023**	Analysis Date: **2/3/2023**	SeqNo: **3410975** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.8	49.02	0	93.5	54.2	135	4.46	29.2	
Surr: DNOP	5.7		4.902		115	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 Quanitative 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#: **2301A80**

09-Feb-23

Client: Devon Energy

Project: Todd 36 State 1 Pasture

Sample ID: **lcs-72935**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **72935**	RunNo: **94356**
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3408765** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	114	72.3	137			
Surr: BFB	1200		1000		117	37.7	212			

Sample ID: **mb-72935**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **72935**	RunNo: **94356**
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3408766** 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	37.7	212			

Sample ID: **lcs-72942**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **72942**	RunNo: **94375**
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3409202** 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	109	72.3	137			
Surr: BFB	1100		1000		111	37.7	212			

Sample ID: **mb-72942**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **72942**	RunNo: **94375**
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3409203** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		100	37.7	212			

Sample ID: **2301A80-025ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BES23-152 4'**	Batch ID: **72942**	RunNo: **94375**
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3409205** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.9	24.56	0	119	70	130			
Surr: BFB	1100		982.3		108	37.7	212			

Sample ID: **2301A80-025amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BES23-152 4'**	Batch ID: **72942**	RunNo: **94375**
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3409206** 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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2301A80**

09-Feb-23

Client: Devon Energy

Project: Todd 36 State 1 Pasture

Sample ID: **2301A80-025amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BES23-152 4'**	Batch ID: **72942**	RunNo: **94375**
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3409206** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.9	24.56	0	112	70	130	5.71	20	
Surr: BFB	1000		982.3		106	37.7	212	0	0	

Sample ID: **2301a80-005ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BES23-132 4'**	Batch ID: **72936**	RunNo: **94356**
Prep Date: **2/1/2023**	Analysis Date: **2/3/2023**	SeqNo: **3409231** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	24.88	0	117	70	130			
Surr: BFB	1100		995.0		110	37.7	212			

Sample ID: **2301a80-005amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BES23-132 4'**	Batch ID: **72936**	RunNo: **94356**
Prep Date: **2/1/2023**	Analysis Date: **2/3/2023**	SeqNo: **3409232** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	24.90	0	118	70	130	0.954	20	
Surr: BFB	1100		996.0		113	37.7	212	0	0	

Sample ID: **lcs-72936**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **72936**	RunNo: **94356**
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3409254** 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	72.3	137			
Surr: BFB	1100		1000		114	37.7	212			

Sample ID: **mb-72936**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **72936**	RunNo: **94356**
Prep Date: **2/1/2023**	Analysis Date: **2/3/2023**	SeqNo: **3409255** 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	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2301A80**

09-Feb-23

Client: Devon Energy

Project: Todd 36 State 1 Pasture

Sample ID: **LCS-72935**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **72935**	RunNo: **94356**
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3408773** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	86.6	80	120			
Toluene	0.89	0.050	1.000	0	88.9	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.2	80	120			
Xylenes, Total	2.7	0.10	3.000	0	88.7	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.0	70	130			

Sample ID: **mb-72935**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **72935**	RunNo: **94356**
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3408774** 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		96.5	70	130			

Sample ID: **LCS-72936**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **72936**	RunNo: **94356**
Prep Date: **2/1/2023**	Analysis Date: **2/3/2023**	SeqNo: **3409259** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.0	80	120			
Toluene	0.92	0.050	1.000	0	92.2	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.1	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.3	70	130			

Sample ID: **mb-72936**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **72936**	RunNo: **94356**
Prep Date: **2/1/2023**	Analysis Date: **2/3/2023**	SeqNo: **3409260** 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	0.98		1.000		98.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2301A80**

09-Feb-23

Client: Devon Energy

Project: Todd 36 State 1 Pasture

Sample ID: **2301a80-006ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BES23-133 4'**	Batch ID: **72936**	RunNo: **94356**
Prep Date: **2/1/2023**	Analysis Date: **2/3/2023**	SeqNo: **3409267** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9479	0	99.8	68.8	120			
Toluene	0.98	0.047	0.9479	0.01682	102	73.6	124			
Ethylbenzene	0.99	0.047	0.9479	0	105	72.7	129			
Xylenes, Total	3.0	0.095	2.844	0.02722	103	75.7	126			
Surr: 4-Bromofluorobenzene	0.90		0.9479		94.5	70	130			

Sample ID: **2301a80-006amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BES23-133 4'**	Batch ID: **72936**	RunNo: **94356**
Prep Date: **2/1/2023**	Analysis Date: **2/3/2023**	SeqNo: **3409268** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.024	0.9470	0	97.5	68.8	120	2.38	20	
Toluene	0.96	0.047	0.9470	0.01682	99.2	73.6	124	2.51	20	
Ethylbenzene	0.96	0.047	0.9470	0	102	72.7	129	2.67	20	
Xylenes, Total	2.9	0.095	2.841	0.02722	101	75.7	126	2.07	20	
Surr: 4-Bromofluorobenzene	0.91		0.9470		95.6	70	130	0	0	

Sample ID: **lcs-72942**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **72942**	RunNo: **94375**
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3409317** 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	96.7	80	120			
Toluene	0.97	0.050	1.000	0	97.3	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.9	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.2	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: **mb-72942**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **72942**	RunNo: **94375**
Prep Date: **2/1/2023**	Analysis Date: **2/2/2023**	SeqNo: **3409318** 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		100	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2301A80**

09-Feb-23

Client: Devon Energy

Project: Todd 36 State 1 Pasture

Sample ID: **2301A80-026ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BES23-153 4'**	Batch ID: **72942**	RunNo: **94375**
Prep Date: **2/1/2023**	Analysis Date: **2/3/2023**	SeqNo: **3409321** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.024	0.9470	0	102	68.8	120			
Toluene	0.97	0.047	0.9470	0	102	73.6	124			
Ethylbenzene	0.97	0.047	0.9470	0	103	72.7	129			
Xylenes, Total	2.9	0.095	2.841	0	103	75.7	126			
Surr: 4-Bromofluorobenzene	0.98		0.9470		104	70	130			

Sample ID: **2301A80-026amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BES23-153 4'**	Batch ID: **72942**	RunNo: **94375**
Prep Date: **2/1/2023**	Analysis Date: **2/3/2023**	SeqNo: **3409322** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.024	0.9479	0	103	68.8	120	1.37	20	
Toluene	0.98	0.047	0.9479	0	104	73.6	124	1.55	20	
Ethylbenzene	0.99	0.047	0.9479	0	104	72.7	129	1.84	20	
Xylenes, Total	3.0	0.095	2.844	0	105	75.7	126	1.82	20	
Surr: 4-Bromofluorobenzene	0.98		0.9479		103	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Devon Energy | Work Order Number: 2301A80 | RcptNo: 1

Received By: Tracy Casarrubias 1/28/2023 8:00:00 AM

Completed By: Tracy Casarrubias 1/28/2023 8:53:49 AM

Reviewed By: JN 1/30/23

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° 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: TMU 1/28/23

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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.4	Good	Yes	Morty		

Received by OCD: 1/21/2026 6:39:41 AM

Released to Imaging: 3/18/2026 3:36:11 PM

Chain-of-Custody Record

Client: Devon (Vertex)

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: TOJ 36 State 1 "Pasture"

Project #: 21E-02816

Project Manager: Kent Stallings

Sampler: J. Reta

On Ice: ☒ Yes ☐ No Morty

# of Coolers: 1

Cooler Temp(including CF): 3.3+0.1=3.4 (°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. 2301A80	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)
1/26/23	10:00	Soil	BES23-128 4'	4oz Jar	Ice	001										
	10:05		BES23-129 4'			002										
	10:10		BES23-130 4'			003										
	10:15		BES23-131 4'			004										
	10:20		BES23-132 4'			005										
	10:25		BES23-133 4'			006										
	10:30		BES23-134 4'			007										
	10:35		BES23-135 4'			008										
	10:40		BES23-136 4'			009										
	10:45		BES23-137 4'			010										
	10:50		BES23-138 4'			011										
	10:55		BES23-139 4'			012										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
1/26/23	17:50	J. Reta			1/27/23	9:15
1/27/23	9:00			Courier	1/28/23	8:00

Remarks: Direct Bill to Devon
cc: Monica Peppin & Jacob Reta

Devon/Harvard

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: Devon (Vertex)

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: Todd 36 State 1 "Pasture"

Project #: 21E-02816

Project Manager: Kent Stallings.

Sampler: J. Reta

On Ice: ☒ Yes ☐ No monty

# of Coolers: 1

Cooler Temp(including CF): 3.3+0.1 = 3.4 (°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. 2301480
01/26/23	11:00	Soil	BES23-140 4'	4oz Jar	Ice	013
	11:05		BES23-141 4'			014
	11:10		BES23-142 4'			015
	11:15		BES23-143 4'			016
	11:20		BES23-144 4'			017
	11:25		BES23-145 4'			018
	11:30		BES23-146 4'			019
	11:35		BES23-147 4'			020
	11:40		BES23-148 4'			021
	11:45		BES23-149 4'			022
	11:50		BES23-150 4'			023
	11:55		BES23-151 4'			024

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)

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
01/26/23	17:50	J. Reta				
1/27/23	1900				1/27/23	915
					1/20/23	8:00

Remarks: Direct Bill to Devon
CC: Monica Peppin & Jacob Reta
Devon/Harvard

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: Devon (Vortex)

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: Todd 36 State 1 "Pasture"

Project #: 216-02816

Project Manager: Kent Stallings

Sampler: J. Reta

On Ice: ☒ Yes ☐ No Marty

# of Coolers: 1

Cooler Temp (including CF): 3.3+0.1 =3.4 (°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. 2301A80	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)
01/26/23	12:00	Soil	BES23-152 4'	4oz Jar	Ice	025										
	12:05		BES23-153 4'			026										
	12:10		BES23-154 4'			026										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
01/26/23	17:50	J. Reta				
1/27/23	900				1/28/23	8:00

Remarks: Direct Bill to Devon
cc: Monica Peppin & Jacob Reta
Devon/Harvard.

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

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

February 09, 2023

Kent Stallings

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

RE: Todd 36 State 1 Pasture OrderNo.: 2301B22

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 14 sample(s) on 1/31/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2301B22**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Todd 36 State 1 Pasture
Lab ID: 2301B22-001 **Matrix:** SOIL

Client Sample ID: BES23-155 4'
Collection Date: 1/27/2023 10:20:00 AM
Received Date: 1/31/2023 10:45:00 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	2/4/2023 1:33:01 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/4/2023 1:33:01 AM
Surr: DNOP	103	69-147		%Rec	1	2/4/2023 1:33:01 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/4/2023 12:06:00 AM
Surr: BFB	103	37.7-212		%Rec	1	2/4/2023 12:06:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	2/4/2023 12:06:00 AM
Toluene	ND	0.050		mg/Kg	1	2/4/2023 12:06:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/4/2023 12:06:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/4/2023 12:06:00 AM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	2/4/2023 12:06:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	1300	60		mg/Kg	20	2/3/2023 1:44:46 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301B22**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-156 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/27/2023 10:25:00 AM
Lab ID: 2301B22-002 **Matrix:** SOIL
Received Date: 1/31/2023 10:45:00 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	2/4/2023 1:43:25 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/4/2023 1:43:25 AM
Surr: DNOP	100	69-147		%Rec	1	2/4/2023 1:43:25 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/4/2023 12:25:00 AM
Surr: BFB	98.3	37.7-212		%Rec	1	2/4/2023 12:25:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/4/2023 12:25:00 AM
Toluene	ND	0.049		mg/Kg	1	2/4/2023 12:25:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/4/2023 12:25:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	2/4/2023 12:25:00 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	2/4/2023 12:25:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	4200	150		mg/Kg	50	2/7/2023 7:57:33 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301B22**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-157 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/27/2023 10:30:00 AM
Lab ID: 2301B22-003 **Matrix:** SOIL
Received Date: 1/31/2023 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	2/4/2023 1:53:49 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/4/2023 1:53:49 AM
Surr: DNOP	145	69-147		%Rec	1	2/4/2023 1:53:49 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/4/2023 12:45:00 AM
Surr: BFB	98.4	37.7-212		%Rec	1	2/4/2023 12:45:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.023		mg/Kg	1	2/4/2023 12:45:00 AM
Toluene	ND	0.046		mg/Kg	1	2/4/2023 12:45:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	2/4/2023 12:45:00 AM
Xylenes, Total	ND	0.092		mg/Kg	1	2/4/2023 12:45:00 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	2/4/2023 12:45:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	430	60		mg/Kg	20	2/3/2023 2:09:40 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2301B22**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-158 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/27/2023 10:35:00 AM
Lab ID: 2301B22-004 **Matrix:** SOIL
Received Date: 1/31/2023 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/4/2023 2:04:12 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/4/2023 2:04:12 AM
Surr: DNOP	128	69-147		%Rec	1	2/4/2023 2:04:12 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/4/2023 1:05:00 AM
Surr: BFB	99.5	37.7-212		%Rec	1	2/4/2023 1:05:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/4/2023 1:05:00 AM
Toluene	ND	0.049		mg/Kg	1	2/4/2023 1:05:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/4/2023 1:05:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	2/4/2023 1:05:00 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	2/4/2023 1:05:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	330	60		mg/Kg	20	2/3/2023 2:22:07 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301B22**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-159 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/27/2023 10:40:00 AM
Lab ID: 2301B22-005 **Matrix:** SOIL
Received Date: 1/31/2023 10:45:00 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	2/4/2023 2:14:36 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/4/2023 2:14:36 AM
Surr: DNOP	108	69-147		%Rec	1	2/4/2023 2:14:36 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/4/2023 1:24:00 AM
Surr: BFB	103	37.7-212		%Rec	1	2/4/2023 1:24:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/4/2023 1:24:00 AM
Toluene	ND	0.049		mg/Kg	1	2/4/2023 1:24:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/4/2023 1:24:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	2/4/2023 1:24:00 AM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	2/4/2023 1:24:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	910	60		mg/Kg	20	2/3/2023 2:34:34 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301B22**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-160 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/27/2023 10:45:00 AM
Lab ID: 2301B22-006 **Matrix:** SOIL
Received Date: 1/31/2023 10:45:00 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	2/4/2023 2:24:58 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/4/2023 2:24:58 AM
Surr: DNOP	121	69-147		%Rec	1	2/4/2023 2:24:58 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/4/2023 1:44:00 AM
Surr: BFB	97.8	37.7-212		%Rec	1	2/4/2023 1:44:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	2/4/2023 1:44:00 AM
Toluene	ND	0.050		mg/Kg	1	2/4/2023 1:44:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/4/2023 1:44:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	2/4/2023 1:44:00 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	2/4/2023 1:44:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	930	60		mg/Kg	20	2/3/2023 2:21:05 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301B22**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-161 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/27/2023 10:50:00 AM
Lab ID: 2301B22-007 **Matrix:** SOIL
Received Date: 1/31/2023 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/4/2023 2:45:45 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/4/2023 2:45:45 AM
Surr: DNOP	113	69-147		%Rec	1	2/4/2023 2:45:45 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/4/2023 2:04:00 AM
Surr: BFB	104	37.7-212		%Rec	1	2/4/2023 2:04:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/4/2023 2:04:00 AM
Toluene	ND	0.047		mg/Kg	1	2/4/2023 2:04:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	2/4/2023 2:04:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	2/4/2023 2:04:00 AM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	2/4/2023 2:04:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	3700	150		mg/Kg	50	2/7/2023 2:18:25 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301B22**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-162 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/27/2023 10:55:00 AM
Lab ID: 2301B22-008 **Matrix:** SOIL
Received Date: 1/31/2023 10:45:00 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	2/4/2023 2:56:15 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/4/2023 2:56:15 AM
Surr: DNOP	103	69-147		%Rec	1	2/4/2023 2:56:15 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/4/2023 2:43:00 AM
Surr: BFB	99.5	37.7-212		%Rec	1	2/4/2023 2:43:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/4/2023 2:43:00 AM
Toluene	ND	0.049		mg/Kg	1	2/4/2023 2:43:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/4/2023 2:43:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	2/4/2023 2:43:00 AM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	2/4/2023 2:43:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	270	60		mg/Kg	20	2/3/2023 2:45:57 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301B22**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-163 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/27/2023 11:00:00 AM
Lab ID: 2301B22-009 **Matrix:** SOIL
Received Date: 1/31/2023 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/4/2023 3:06:46 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/4/2023 3:06:46 AM
Surr: DNOP	117	69-147		%Rec	1	2/4/2023 3:06:46 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/4/2023 3:03:00 AM
Surr: BFB	104	37.7-212		%Rec	1	2/4/2023 3:03:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/4/2023 3:03:00 AM
Toluene	ND	0.047		mg/Kg	1	2/4/2023 3:03:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	2/4/2023 3:03:00 AM
Xylenes, Total	ND	0.094		mg/Kg	1	2/4/2023 3:03:00 AM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	2/4/2023 3:03:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	120	61		mg/Kg	20	2/3/2023 2:58:23 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301B22**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-164 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/27/2023 11:05:00 AM
Lab ID: 2301B22-010 **Matrix:** SOIL
Received Date: 1/31/2023 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/4/2023 3:17:14 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/4/2023 3:17:14 AM
Surr: DNOP	98.4	69-147		%Rec	1	2/4/2023 3:17:14 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/4/2023 3:22:00 AM
Surr: BFB	97.7	37.7-212		%Rec	1	2/4/2023 3:22:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/4/2023 3:22:00 AM
Toluene	ND	0.047		mg/Kg	1	2/4/2023 3:22:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	2/4/2023 3:22:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	2/4/2023 3:22:00 AM
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	2/4/2023 3:22:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	2/3/2023 3:10:50 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301B22**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-165 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/27/2023 11:10:00 AM
Lab ID: 2301B22-011 **Matrix:** SOIL
Received Date: 1/31/2023 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/4/2023 3:27:44 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/4/2023 3:27:44 AM
Surr: DNOP	101	69-147		%Rec	1	2/4/2023 3:27:44 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/4/2023 3:42:00 AM
Surr: BFB	103	37.7-212		%Rec	1	2/4/2023 3:42:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/4/2023 3:42:00 AM
Toluene	ND	0.047		mg/Kg	1	2/4/2023 3:42:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	2/4/2023 3:42:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	2/4/2023 3:42:00 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	2/4/2023 3:42:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	620	60		mg/Kg	20	2/3/2023 3:23:16 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2301B22**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-166 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/27/2023 11:15:00 AM
Lab ID: 2301B22-012 **Matrix:** SOIL
Received Date: 1/31/2023 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/4/2023 3:38:18 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/4/2023 3:38:18 AM
Surr: DNOP	96.7	69-147		%Rec	1	2/4/2023 3:38:18 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/4/2023 4:01:00 AM
Surr: BFB	100	37.7-212		%Rec	1	2/4/2023 4:01:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.023		mg/Kg	1	2/4/2023 4:01:00 AM
Toluene	ND	0.046		mg/Kg	1	2/4/2023 4:01:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	2/4/2023 4:01:00 AM
Xylenes, Total	ND	0.092		mg/Kg	1	2/4/2023 4:01:00 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	2/4/2023 4:01:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	190	60		mg/Kg	20	2/4/2023 9:04:47 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2301B22**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-167 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/27/2023 11:20:00 AM
Lab ID: 2301B22-013 **Matrix:** SOIL
Received Date: 1/31/2023 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/4/2023 3:48:50 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/4/2023 3:48:50 AM
Surr: DNOP	96.0	69-147		%Rec	1	2/4/2023 3:48:50 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/4/2023 4:21:00 AM
Surr: BFB	97.9	37.7-212		%Rec	1	2/4/2023 4:21:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.023		mg/Kg	1	2/4/2023 4:21:00 AM
Toluene	ND	0.046		mg/Kg	1	2/4/2023 4:21:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	2/4/2023 4:21:00 AM
Xylenes, Total	ND	0.092		mg/Kg	1	2/4/2023 4:21:00 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	2/4/2023 4:21:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	200	60		mg/Kg	20	2/4/2023 9:42:01 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2301B22**
Date Reported: **2/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BES23-168 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/27/2023 11:25:00 AM
Lab ID: 2301B22-014 **Matrix:** SOIL
Received Date: 1/31/2023 10:45:00 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	2/4/2023 3:59:23 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/4/2023 3:59:23 AM
Surr: DNOP	95.8	69-147		%Rec	1	2/4/2023 3:59:23 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/4/2023 4:40:00 AM
Surr: BFB	98.0	37.7-212		%Rec	1	2/4/2023 4:40:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.023		mg/Kg	1	2/4/2023 4:40:00 AM
Toluene	ND	0.047		mg/Kg	1	2/4/2023 4:40:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	2/4/2023 4:40:00 AM
Xylenes, Total	ND	0.093		mg/Kg	1	2/4/2023 4:40:00 AM
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	2/4/2023 4:40:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	ND	60		mg/Kg	20	2/4/2023 10:19:15 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 Quanitative 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#: **2301B22**
09-Feb-23

Client: Devon Energy
Project: Todd 36 State 1 Pasture

Sample ID: **MB-73001**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **73001**	RunNo: **94417**							
Prep Date: **2/4/2023**	Analysis Date: **2/4/2023**	SeqNo: **3411144**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-73001**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **73001**	RunNo: **94417**							
Prep Date: **2/4/2023**	Analysis Date: **2/4/2023**	SeqNo: **3411145**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	90	110			

Sample ID: **MB-72984**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **72984**	RunNo: **94423**							
Prep Date: **2/3/2023**	Analysis Date: **2/3/2023**	SeqNo: **3411441**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-72984**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **72984**	RunNo: **94423**							
Prep Date: **2/3/2023**	Analysis Date: **2/3/2023**	SeqNo: **3411442**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.5	90	110			

Sample ID: **MB-72983**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **72983**	RunNo: **94425**							
Prep Date: **2/3/2023**	Analysis Date: **2/3/2023**	SeqNo: **3411574**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-72983**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **72983**	RunNo: **94425**							
Prep Date: **2/3/2023**	Analysis Date: **2/3/2023**	SeqNo: **3411575**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.7	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2301B22**
09-Feb-23

Client: Devon Energy
Project: Todd 36 State 1 Pasture

Sample ID: **LCS-72979**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **72979**	RunNo: **94392**
Prep Date: **2/2/2023**	Analysis Date: **2/3/2023**	SeqNo: **3411050** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.2	61.9	130			
Surr: DNOP	5.4		5.000		108	69	147			

Sample ID: **MB-72979**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **72979**	RunNo: **94392**
Prep Date: **2/2/2023**	Analysis Date: **2/3/2023**	SeqNo: **3411052** 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		102	69	147			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2301B22**
09-Feb-23

Client: Devon Energy
Project: Todd 36 State 1 Pasture

Sample ID: **lcs-72971** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **72971** RunNo: **94402**
Prep Date: **2/2/2023** Analysis Date: **2/3/2023** SeqNo: **3410291** 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	110	72.3	137			
Surr: BFB	1100		1000		113	37.7	212			

Sample ID: **mb-72971** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **72971** RunNo: **94402**
Prep Date: **2/2/2023** Analysis Date: **2/3/2023** SeqNo: **3410292** 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		99.6	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2301B22**
09-Feb-23

Client: Devon Energy
Project: Todd 36 State 1 Pasture

Sample ID: **lcs-72971**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **72971**	RunNo: **94402**
Prep Date: **2/2/2023**	Analysis Date: **2/3/2023**	SeqNo: **3410344** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.4	80	120			
Toluene	0.99	0.050	1.000	0	98.9	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.3	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	70	130			

Sample ID: **mb-72971**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **72971**	RunNo: **94402**
Prep Date: **2/2/2023**	Analysis Date: **2/3/2023**	SeqNo: **3410345** 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	70	130			

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Devon Energy** Work Order Number: **2301B22** RcptNo: **1**

Received By: **Juan Rojas** **1/31/2023 10:45:00 AM**

Completed By: **Desiree Dominguez** **1/31/2023 10:54:15 AM**

Reviewed By: JR 1/31/23

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° 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: KPH 1.31.23

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:

Missing client information on COC. -DAD 1/31/23

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good	Not Present	Morty		

Received by OCD: 1/21/2026 6:39:41 AM

Released to Imaging: 3/18/2026 3:36:11 PM

Chain-of-Custody Record

Client: Devon (Vertex)

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 Days

Project Name: ToJJ 36 State 1 "Pasture"

Project #: 21E-02816

Project Manager: Kent Stallings

Sampler: S. Reta

On Ice: ☐ Yes ☐ No

# of Coolers: 1 (Monty)

Cooler Temp(Including CF): 0.6+0.1=0.7 (°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. 2301B22	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)
01/27/23	10:20	Soil	BES23-155 4'	4oz Jar	Ice	-001										
	10:25		BES23-156 4'			-002										
	10:30		BES23-157 4'			-003										
	10:35		BES23-158 4'			-004										
	10:40		BES23-159 4'			-005										
	10:45		BES23-160 4'			-006										
	10:50		BES23-161 4'			-007										
	10:55		BES23-162 4'			-008										
	11:00		BES23-163 4'			-009										
	11:05		BES23-164 4'			-010										
	11:10		BES23-165 4'			-011										
	11:15		BES23-166 4'			-012										

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
01/27/23	17:14	S. Reta			1/30/23	730
1/31/23	1900			COC	1/31/23	10:45

Remarks: Direct Bill to Devon
cc: Monica Peppin & Jacob Reta
Devon / Harvard.

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: Devon (~~XTO~~) (Vertex)

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: Todd 36 State 1 "Pasture"

Project #: 21E-02816

Project Manager: Kent Stallings

Sampler: J. Reta

On Ice: ☐ ~~Yes~~ ☐ No

# of Coolers: 1 (Empty)

Cooler Temp(Including CF): 0.6+0.1=0.7 (°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. 2301B22	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)
01/27/23	11:20	Soil	BES23-167 4'	4oz Jar	Ice	-013										
"	11:25	"	BES23-168 4'	"	"	-014										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
01/27/23	17:14	J. Reta			1/30/23	730
1/30/23	1900		courier		1/31/23	1045

Remarks: Direct Bill to Devon
CC: Monica Peppin & Jacob Reta
Devon/Harvard.

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

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

February 10, 2023

Kent Stallings

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

RE: Todd 36 State 1 Pasture OrderNo.: 2302006

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 13 sample(s) on 2/1/2023 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 don't hesitate to contact HEAL for any additional information or clarifications.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2302006**
Date Reported: **2/10/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-169 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/30/2023 10:50:00 AM
Lab ID: 2302006-001 **Matrix:** SOIL
Received Date: 2/1/2023 8:00:00 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	2/4/2023 4:20:28 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/4/2023 4:20:28 AM
Surr: DNOP	77.7	69-147		%Rec	1	2/4/2023 4:20:28 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/4/2023 5:20:00 AM
Surr: BFB	96.7	37.7-212		%Rec	1	2/4/2023 5:20:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.023		mg/Kg	1	2/4/2023 5:20:00 AM
Toluene	ND	0.047		mg/Kg	1	2/4/2023 5:20:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	2/4/2023 5:20:00 AM
Xylenes, Total	ND	0.093		mg/Kg	1	2/4/2023 5:20:00 AM
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	2/4/2023 5:20:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	130	60		mg/Kg	20	2/4/2023 11:08:55 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302006**
Date Reported: **2/10/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-170 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/30/2023 10:55:00 AM
Lab ID: 2302006-002 **Matrix:** SOIL
Received Date: 2/1/2023 8:00:00 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	2/4/2023 4:31:01 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/4/2023 4:31:01 AM
Surr: DNOP	104	69-147		%Rec	1	2/4/2023 4:31:01 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/4/2023 5:39:00 AM
Surr: BFB	96.5	37.7-212		%Rec	1	2/4/2023 5:39:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	2/4/2023 5:39:00 AM
Toluene	ND	0.050		mg/Kg	1	2/4/2023 5:39:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/4/2023 5:39:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/4/2023 5:39:00 AM
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	2/4/2023 5:39:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	ND	60		mg/Kg	20	2/4/2023 11:21:20 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2302006**
Date Reported: **2/10/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-171 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/30/2023 11:00:00 AM
Lab ID: 2302006-003 **Matrix:** SOIL
Received Date: 2/1/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	2/7/2023 2:15:49 AM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	2/7/2023 2:15:49 AM
Surr: DNOP	105	69-147		%Rec	1	2/7/2023 2:15:49 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/7/2023 12:30:39 PM
Surr: BFB	102	37.7-212		%Rec	1	2/7/2023 12:30:39 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	2/7/2023 12:30:39 PM
Toluene	ND	0.049		mg/Kg	1	2/7/2023 12:30:39 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/7/2023 12:30:39 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/7/2023 12:30:39 PM
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	2/7/2023 12:30:39 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	ND	60		mg/Kg	20	2/4/2023 11:33:44 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302006**
Date Reported: **2/10/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-172 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/30/2023 11:05:00 AM
Lab ID: 2302006-004 **Matrix:** SOIL **Received Date:** 2/1/2023 8:00:00 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	2/7/2023 2:53:52 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/7/2023 2:53:52 AM
Surr: DNOP	107	69-147		%Rec	1	2/7/2023 2:53:52 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/7/2023 1:41:25 PM
Surr: BFB	101	37.7-212		%Rec	1	2/7/2023 1:41:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.023		mg/Kg	1	2/7/2023 1:41:25 PM
Toluene	ND	0.046		mg/Kg	1	2/7/2023 1:41:25 PM
Ethylbenzene	ND	0.046		mg/Kg	1	2/7/2023 1:41:25 PM
Xylenes, Total	ND	0.093		mg/Kg	1	2/7/2023 1:41:25 PM
Surr: 4-Bromofluorobenzene	87.8	70-130		%Rec	1	2/7/2023 1:41:25 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	63	60		mg/Kg	20	2/4/2023 11:46:09 AM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302006**
Date Reported: **2/10/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-173 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/30/2023 11:10:00 AM
Lab ID: 2302006-005 **Matrix:** SOIL
Received Date: 2/1/2023 8:00:00 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	2/7/2023 3:06:26 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/7/2023 3:06:26 AM
Surr: DNOP	105	69-147		%Rec	1	2/7/2023 3:06:26 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/7/2023 2:52:03 PM
Surr: BFB	103	37.7-212		%Rec	1	2/7/2023 2:52:03 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	2/7/2023 2:52:03 PM
Toluene	ND	0.049		mg/Kg	1	2/7/2023 2:52:03 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/7/2023 2:52:03 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/7/2023 2:52:03 PM
Surr: 4-Bromofluorobenzene	88.9	70-130		%Rec	1	2/7/2023 2:52:03 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	630	60		mg/Kg	20	2/4/2023 11:58:34 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2302006**
Date Reported: **2/10/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-174 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/30/2023 11:15:00 AM
Lab ID: 2302006-006 **Matrix:** SOIL
Received Date: 2/1/2023 8:00:00 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	2/7/2023 3:19:00 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/7/2023 3:19:00 AM
Surr: DNOP	108	69-147		%Rec	1	2/7/2023 3:19:00 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/7/2023 3:15:36 PM
Surr: BFB	105	37.7-212		%Rec	1	2/7/2023 3:15:36 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/7/2023 3:15:36 PM
Toluene	ND	0.049		mg/Kg	1	2/7/2023 3:15:36 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/7/2023 3:15:36 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/7/2023 3:15:36 PM
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	2/7/2023 3:15:36 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	100	60		mg/Kg	20	2/4/2023 12:10:59 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2302006**
Date Reported: **2/10/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-175 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/30/2023 11:20:00 AM
Lab ID: 2302006-007 **Matrix:** SOIL **Received Date:** 2/1/2023 8:00:00 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	2/7/2023 3:31:31 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/7/2023 3:31:31 AM
Surr: DNOP	108	69-147		%Rec	1	2/7/2023 3:31:31 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/7/2023 3:39:06 PM
Surr: BFB	103	37.7-212		%Rec	1	2/7/2023 3:39:06 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	2/7/2023 3:39:06 PM
Toluene	ND	0.049		mg/Kg	1	2/7/2023 3:39:06 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/7/2023 3:39:06 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/7/2023 3:39:06 PM
Surr: 4-Bromofluorobenzene	89.0	70-130		%Rec	1	2/7/2023 3:39:06 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	250	60		mg/Kg	20	2/4/2023 12:23:24 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2302006**
Date Reported: **2/10/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-176 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/30/2023 11:25:00 AM
Lab ID: 2302006-008 **Matrix:** SOIL
Received Date: 2/1/2023 8:00:00 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	2/7/2023 3:44:48 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/7/2023 3:44:48 AM
Surr: DNOP	113	69-147		%Rec	1	2/7/2023 3:44:48 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/7/2023 4:02:39 PM
Surr: BFB	106	37.7-212		%Rec	1	2/7/2023 4:02:39 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	2/7/2023 4:02:39 PM
Toluene	ND	0.050		mg/Kg	1	2/7/2023 4:02:39 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/7/2023 4:02:39 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/7/2023 4:02:39 PM
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	2/7/2023 4:02:39 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	800	60		mg/Kg	20	2/4/2023 12:35:48 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2302006**
Date Reported: **2/10/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-177 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/30/2023 11:30:00 AM
Lab ID: 2302006-009 **Matrix:** SOIL
Received Date: 2/1/2023 8:00:00 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	2/7/2023 3:58:22 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/7/2023 3:58:22 AM
Surr: DNOP	108	69-147		%Rec	1	2/7/2023 3:58:22 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/7/2023 4:26:07 PM
Surr: BFB	103	37.7-212		%Rec	1	2/7/2023 4:26:07 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/7/2023 4:26:07 PM
Toluene	ND	0.048		mg/Kg	1	2/7/2023 4:26:07 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/7/2023 4:26:07 PM
Xylenes, Total	ND	0.096		mg/Kg	1	2/7/2023 4:26:07 PM
Surr: 4-Bromofluorobenzene	89.6	70-130		%Rec	1	2/7/2023 4:26:07 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	4500	150		mg/Kg	50	2/6/2023 12:41:21 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2302006**
Date Reported: **2/10/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-178 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/30/2023 11:35:00 AM
Lab ID: 2302006-010 **Matrix:** SOIL
Received Date: 2/1/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	9.5	9.3		mg/Kg	1	2/7/2023 4:12:07 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/7/2023 4:12:07 AM
Surr: DNOP	107	69-147		%Rec	1	2/7/2023 4:12:07 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/7/2023 5:13:15 PM
Surr: BFB	105	37.7-212		%Rec	1	2/7/2023 5:13:15 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/7/2023 5:13:15 PM
Toluene	ND	0.049		mg/Kg	1	2/7/2023 5:13:15 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/7/2023 5:13:15 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/7/2023 5:13:15 PM
Surr: 4-Bromofluorobenzene	92.1	70-130		%Rec	1	2/7/2023 5:13:15 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	390	60		mg/Kg	20	2/4/2023 1:00:37 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302006**
Date Reported: **2/10/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-179 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/30/2023 11:40:00 AM
Lab ID: 2302006-011 **Matrix:** SOIL
Received Date: 2/1/2023 8:00:00 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	2/7/2023 4:26:08 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/7/2023 4:26:08 AM
Surr: DNOP	110	69-147		%Rec	1	2/7/2023 4:26:08 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/7/2023 5:36:35 PM
Surr: BFB	104	37.7-212		%Rec	1	2/7/2023 5:36:35 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.023		mg/Kg	1	2/7/2023 5:36:35 PM
Toluene	ND	0.046		mg/Kg	1	2/7/2023 5:36:35 PM
Ethylbenzene	ND	0.046		mg/Kg	1	2/7/2023 5:36:35 PM
Xylenes, Total	ND	0.093		mg/Kg	1	2/7/2023 5:36:35 PM
Surr: 4-Bromofluorobenzene	90.8	70-130		%Rec	1	2/7/2023 5:36:35 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	83	60		mg/Kg	20	2/4/2023 1:37:52 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2302006**
Date Reported: **2/10/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-180 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/30/2023 11:45:00 AM
Lab ID: 2302006-012 **Matrix:** SOIL
Received Date: 2/1/2023 8:00:00 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	2/7/2023 4:40:15 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/7/2023 4:40:15 AM
Surr: DNOP	104	69-147		%Rec	1	2/7/2023 4:40:15 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/7/2023 6:00:03 PM
Surr: BFB	104	37.7-212		%Rec	1	2/7/2023 6:00:03 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/7/2023 6:00:03 PM
Toluene	ND	0.048		mg/Kg	1	2/7/2023 6:00:03 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/7/2023 6:00:03 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/7/2023 6:00:03 PM
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	2/7/2023 6:00:03 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	260	60		mg/Kg	20	2/4/2023 1:50:17 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2302006**
Date Reported: **2/10/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-181 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/30/2023 11:50:00 AM
Lab ID: 2302006-013 **Matrix:** SOIL
Received Date: 2/1/2023 8:00:00 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	2/7/2023 4:54:34 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/7/2023 4:54:34 AM
Surr: DNOP	106	69-147		%Rec	1	2/7/2023 4:54:34 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/7/2023 6:23:26 PM
Surr: BFB	102	37.7-212		%Rec	1	2/7/2023 6:23:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/7/2023 6:23:26 PM
Toluene	ND	0.048		mg/Kg	1	2/7/2023 6:23:26 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/7/2023 6:23:26 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/7/2023 6:23:26 PM
Surr: 4-Bromofluorobenzene	89.4	70-130		%Rec	1	2/7/2023 6:23:26 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	4200	150		mg/Kg	50	2/6/2023 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 Quanitative 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#: **2302006**

10-Feb-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **MB-73001**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **73001**	RunNo: **94417**							
Prep Date: **2/4/2023**	Analysis Date: **2/4/2023**	SeqNo: **3411144**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-73001**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **73001**	RunNo: **94417**							
Prep Date: **2/4/2023**	Analysis Date: **2/4/2023**	SeqNo: **3411145**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2302006**
10-Feb-23

Client: Vertex Resources Services, Inc.
Project: Todd 36 State 1 Pasture

Sample ID: **LCS-72979**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **72979**	RunNo: **94392**							
Prep Date: **2/2/2023**	Analysis Date: **2/3/2023**	SeqNo: **3411050**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.2	61.9	130			
Surr: DNOP	5.4		5.000		108	69	147			

Sample ID: **MB-72979**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **72979**	RunNo: **94392**							
Prep Date: **2/2/2023**	Analysis Date: **2/3/2023**	SeqNo: **3411052**	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		102	69	147			

Sample ID: **2302006-003AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **BES23-171 4'**	Batch ID: **72991**	RunNo: **94420**							
Prep Date: **2/3/2023**	Analysis Date: **2/7/2023**	SeqNo: **3413283**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	9.8	49.21	0	106	54.2	135			
Surr: DNOP	5.6		4.921		114	69	147			

Sample ID: **2302006-003AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **BES23-171 4'**	Batch ID: **72991**	RunNo: **94420**							
Prep Date: **2/3/2023**	Analysis Date: **2/7/2023**	SeqNo: **3413284**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	9.9	49.36	0	107	54.2	135	0.752	29.2	
Surr: DNOP	5.4		4.936		109	69	147	0	0	

Sample ID: **MB-72991**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **72991**	RunNo: **94420**							
Prep Date: **2/3/2023**	Analysis Date: **2/6/2023**	SeqNo: **3415319**	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		114	69	147			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2302006**
10-Feb-23

Client: Vertex Resources Services, Inc.
Project: Todd 36 State 1 Pasture

Sample ID: **LCS-72991** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **72991** RunNo: **94420**
Prep Date: **2/3/2023** Analysis Date: **2/6/2023** SeqNo: **3415320** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	10	50.00	0	114	61.9	130			
Surr: DNOP	5.7		5.000		114	69	147			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2302006**
10-Feb-23

Client: Vertex Resources Services, Inc.
Project: Todd 36 State 1 Pasture

Sample ID: **lcs-72971** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **72971** RunNo: **94402**
Prep Date: **2/2/2023** Analysis Date: **2/3/2023** SeqNo: **3410291** 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	110	72.3	137			
Surr: BFB	1100		1000		113	37.7	212			

Sample ID: **mb-72971** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **72971** RunNo: **94402**
Prep Date: **2/2/2023** Analysis Date: **2/3/2023** SeqNo: **3410292** 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		99.6	37.7	212			

Sample ID: **lcs-72989** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **72989** RunNo: **94444**
Prep Date: **2/3/2023** Analysis Date: **2/7/2023** SeqNo: **3412419** 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	110	72.3	137			
Surr: BFB	1200		1000		115	37.7	212			

Sample ID: **mb-72989** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **72989** RunNo: **94444**
Prep Date: **2/3/2023** Analysis Date: **2/7/2023** SeqNo: **3412420** 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		103	37.7	212			

Sample ID: **2302006-003ams** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BES23-171 4'** Batch ID: **72989** RunNo: **94444**
Prep Date: **2/3/2023** Analysis Date: **2/7/2023** SeqNo: **3412556** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.9	24.63	0	108	70	130			
Surr: BFB	1100		985.2		113	37.7	212			

Sample ID: **2302006-003amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BES23-171 4'** Batch ID: **72989** RunNo: **94444**
Prep Date: **2/3/2023** Analysis Date: **2/7/2023** SeqNo: **3412557** 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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2302006**

10-Feb-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **2302006-003amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **BES23-171 4'** Batch ID: **72989** RunNo: **94444**

Prep Date: **2/3/2023** Analysis Date: **2/7/2023** SeqNo: **3412557** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.9	24.46	0	110	70	130	1.52	20	
Surr: BFB	1100		978.5		114	37.7	212	0	0	

Sample ID: **lcs-73024** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **73024** RunNo: **94444**

Prep Date: **2/6/2023** Analysis Date: **2/7/2023** SeqNo: **3413053** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		113	37.7	212			

Sample ID: **mb-73024** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBS** Batch ID: **73024** RunNo: **94444**

Prep Date: **2/6/2023** Analysis Date: **2/7/2023** SeqNo: **3413054** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		104	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2302006**

10-Feb-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **lcs-72971**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **72971**	RunNo: **94402**
Prep Date: **2/2/2023**	Analysis Date: **2/3/2023**	SeqNo: **3410344** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.4	80	120			
Toluene	0.99	0.050	1.000	0	98.9	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.3	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	70	130			

Sample ID: **mb-72971**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **72971**	RunNo: **94402**
Prep Date: **2/2/2023**	Analysis Date: **2/3/2023**	SeqNo: **3410345** 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	70	130			

Sample ID: **LCS-72989**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **72989**	RunNo: **94444**
Prep Date: **2/3/2023**	Analysis Date: **2/7/2023**	SeqNo: **3412425** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.4	80	120			
Toluene	0.91	0.050	1.000	0	90.5	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.6	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.0	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		92.9	70	130			

Sample ID: **mb-72989**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **72989**	RunNo: **94444**
Prep Date: **2/3/2023**	Analysis Date: **2/7/2023**	SeqNo: **3412426** 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	0.91		1.000		91.3	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2302006**

10-Feb-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **2302006-004ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **BES23-172 4'** Batch ID: **72989** RunNo: **94444**

Prep Date: **2/3/2023** Analysis Date: **2/7/2023** SeqNo: **3412568** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.76	0.023	0.9276	0.01733	80.5	68.8	120			
Toluene	0.83	0.046	0.9276	0.02289	86.7	73.6	124			
Ethylbenzene	0.82	0.046	0.9276	0	88.7	72.7	129			
Xylenes, Total	2.5	0.093	2.783	0.02715	87.9	75.7	126			
Surr: 4-Bromofluorobenzene	0.86		0.9276		92.4	70	130			

Sample ID: **2302006-004amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **BES23-172 4'** Batch ID: **72989** RunNo: **94444**

Prep Date: **2/3/2023** Analysis Date: **2/7/2023** SeqNo: **3412569** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.023	0.9302	0.01733	83.8	68.8	120	4.27	20	
Toluene	0.84	0.047	0.9302	0.02289	88.1	73.6	124	1.94	20	
Ethylbenzene	0.84	0.047	0.9302	0	90.1	72.7	129	1.83	20	
Xylenes, Total	2.5	0.093	2.791	0.02715	88.9	75.7	126	1.42	20	
Surr: 4-Bromofluorobenzene	0.86		0.9302		92.2	70	130	0	0	

Sample ID: **LCS-73024** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **73024** RunNo: **94444**

Prep Date: **2/6/2023** Analysis Date: **2/7/2023** SeqNo: **3413179** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.92		1.000		91.8	70	130			

Sample ID: **mb-73024** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **73024** RunNo: **94444**

Prep Date: **2/6/2023** Analysis Date: **2/7/2023** SeqNo: **3413180** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.92		1.000		91.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 2302006

RcptNo: 1

Received By: Cheyenne Cason 2/1/2023 8:00:00 AM

Completed By: Cheyenne Cason 2/1/2023 8:21:24 AM

Reviewed By: 2-1-23

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° 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 2/1/23

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	0.0	Good	Not Present	Yogi		

Received by OCD: 1/21/2026 6:39:41 AM

Released to Imaging: 3/18/2026 3:36:11 PM

Chain-of-Custody Record

Client: Devon (Vertex)

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 Days

Project Name: ToJ 36 State 1 "Pasture"

Project #: 21E-02816

Project Manager: Kent Stallings

Sampler: J. Reta

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.0 - 0 = 0.0 (°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. 2302006	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)
1/30/23	10:50	Soil	BES23-169 4'	4oz Jar	Ice	001										
	10:55		BES23-170 4'			002										
	11:00		BES23-171 4'			003										
	11:05		BES23-172 4'			004										
	11:10		BES23-173 4'			005										
	11:15		BES23-174 4'			006										
	11:20		BES23-175 4'			007										
	11:25		BES23-176 4'			008										
	11:30		BES23-177 4'			009										
	11:35		BES23-178 4'			010										
	11:40		BES23-179 4'			011										
	11:45		BES23-180 4'			012										

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
1/30/23		J. Reta				
1/31/23	1900				1/31/23	1130
			Chris Cover		2/1/23	0800

Remarks:
Direct Bill to Devon
cc: Monica Peppin & Jacob Reta
Devon/Harvard.

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: Devon (Vertex)

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: Todd 36 State 1 "Pasture"

Project #: 21E-02816

Project Manager: Kent Stallings

Sampler: J. Reta

On Ice: ☒ Yes ☐ No Yogi

# of Coolers: 1

Cooler Temp (Including CF): 0.0-0=0.0 (°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. 2302006	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)
01/30/23	11:50	Soil	BES23-181 4'	4oz Jar	Ice	013	X	X					X			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
01/30/23		J. Reta				
1/31/23	1100				1/31/23	1130

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
					2/1/23	0800

Remarks: Direct Bill to Devon
CC: Monica Peppin & Jacob Reta
Devon/Harvard

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

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

February 14, 2023

Kent Stallings

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

RE: Todd 36 State 1 Pasture OrderNo.: 2302145

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 40 sample(s) on 2/3/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-182 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/31/2023 10:00:00 AM
Lab ID: 2302145-001 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 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	2/7/2023 10:11:27 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/7/2023 10:11:27 PM
Surr: DNOP	117	69-147		%Rec	1	2/7/2023 10:11:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/10/2023 12:25:00 AM
Surr: BFB	92.2	37.7-212		%Rec	1	2/10/2023 12:25:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/10/2023 12:25:00 AM
Toluene	ND	0.048		mg/Kg	1	2/10/2023 12:25:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/10/2023 12:25:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	2/10/2023 12:25:00 AM
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	2/10/2023 12:25:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	430	60		mg/Kg	20	2/8/2023 3:50:09 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-183 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/31/2023 10:05:00 AM
Lab ID: 2302145-002 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	11	9.5		mg/Kg	1	2/7/2023 10:25:02 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/7/2023 10:25:02 PM
Surr: DNOP	124	69-147		%Rec	1	2/7/2023 10:25:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/10/2023 12:44:00 AM
Surr: BFB	90.8	37.7-212		%Rec	1	2/10/2023 12:44:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/10/2023 12:44:00 AM
Toluene	ND	0.047		mg/Kg	1	2/10/2023 12:44:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	2/10/2023 12:44:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	2/10/2023 12:44:00 AM
Surr: 4-Bromofluorobenzene	92.0	70-130		%Rec	1	2/10/2023 12:44:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	1300	60		mg/Kg	20	2/8/2023 4:27:23 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-184 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/31/2023 10:10:00 AM
Lab ID: 2302145-003 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	13	9.5		mg/Kg	1	2/7/2023 10:38:29 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/7/2023 10:38:29 PM
Surr: DNOP	136	69-147		%Rec	1	2/7/2023 10:38:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/10/2023 1:04:00 AM
Surr: BFB	92.7	37.7-212		%Rec	1	2/10/2023 1:04:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/10/2023 1:04:00 AM
Toluene	ND	0.047		mg/Kg	1	2/10/2023 1:04:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	2/10/2023 1:04:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	2/10/2023 1:04:00 AM
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	2/10/2023 1:04:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	310	59		mg/Kg	20	2/8/2023 9:04:28 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-185 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/31/2023 10:15:00 AM
Lab ID: 2302145-004 **Matrix:** SOIL **Received Date:** 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	8.9	8.8		mg/Kg	1	2/7/2023 10:51:59 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	2/7/2023 10:51:59 PM
Surr: DNOP	138	69-147		%Rec	1	2/7/2023 10:51:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/10/2023 1:23:00 AM
Surr: BFB	91.6	37.7-212		%Rec	1	2/10/2023 1:23:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/10/2023 1:23:00 AM
Toluene	ND	0.049		mg/Kg	1	2/10/2023 1:23:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/10/2023 1:23:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	2/10/2023 1:23:00 AM
Surr: 4-Bromofluorobenzene	90.6	70-130		%Rec	1	2/10/2023 1:23:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	870	60		mg/Kg	20	2/8/2023 9:16:53 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-186 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/31/2023 10:20:00 AM
Lab ID: 2302145-005 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	11	9.9		mg/Kg	1	2/7/2023 11:05:21 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/7/2023 11:05:21 PM
Surr: DNOP	117	69-147		%Rec	1	2/7/2023 11:05:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/10/2023 1:43:00 AM
Surr: BFB	94.5	37.7-212		%Rec	1	2/10/2023 1:43:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/10/2023 1:43:00 AM
Toluene	ND	0.048		mg/Kg	1	2/10/2023 1:43:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/10/2023 1:43:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	2/10/2023 1:43:00 AM
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	2/10/2023 1:43:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	1600	60		mg/Kg	20	2/8/2023 9:29:18 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-187 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/31/2023 10:25:00 AM
Lab ID: 2302145-006 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	10	9.9		mg/Kg	1	2/7/2023 11:18:48 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/7/2023 11:18:48 PM
Surr: DNOP	119	69-147		%Rec	1	2/7/2023 11:18:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/10/2023 2:03:00 AM
Surr: BFB	94.3	37.7-212		%Rec	1	2/10/2023 2:03:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/10/2023 2:03:00 AM
Toluene	ND	0.049		mg/Kg	1	2/10/2023 2:03:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/10/2023 2:03:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	2/10/2023 2:03:00 AM
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	2/10/2023 2:03:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	5100	300		mg/Kg	100	2/9/2023 8:44:50 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-188 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/31/2023 10:30:00 AM
Lab ID: 2302145-007 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/7/2023 11:32:27 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/7/2023 11:32:27 PM
Surr: DNOP	118	69-147		%Rec	1	2/7/2023 11:32:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/10/2023 2:22:00 AM
Surr: BFB	93.8	37.7-212		%Rec	1	2/10/2023 2:22:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	2/10/2023 2:22:00 AM
Toluene	ND	0.050		mg/Kg	1	2/10/2023 2:22:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/10/2023 2:22:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/10/2023 2:22:00 AM
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	2/10/2023 2:22:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	3500	150		mg/Kg	50	2/9/2023 8:57:11 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-189 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/31/2023 10:35:00 AM
Lab ID: 2302145-008 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 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	2/7/2023 11:45:52 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/7/2023 11:45:52 PM
Surr: DNOP	122	69-147		%Rec	1	2/7/2023 11:45:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/10/2023 2:42:00 AM
Surr: BFB	101	37.7-212		%Rec	1	2/10/2023 2:42:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/10/2023 2:42:00 AM
Toluene	ND	0.047		mg/Kg	1	2/10/2023 2:42:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	2/10/2023 2:42:00 AM
Xylenes, Total	ND	0.094		mg/Kg	1	2/10/2023 2:42:00 AM
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	2/10/2023 2:42:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	1300	60		mg/Kg	20	2/8/2023 10:06:32 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-193 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/31/2023 10:40:00 AM
Lab ID: 2302145-009 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/7/2023 11:59:29 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/7/2023 11:59:29 PM
Surr: DNOP	119	69-147		%Rec	1	2/7/2023 11:59:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/10/2023 3:01:00 AM
Surr: BFB	89.8	37.7-212		%Rec	1	2/10/2023 3:01:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	2/10/2023 3:01:00 AM
Toluene	ND	0.050		mg/Kg	1	2/10/2023 3:01:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/10/2023 3:01:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/10/2023 3:01:00 AM
Surr: 4-Bromofluorobenzene	90.8	70-130		%Rec	1	2/10/2023 3:01:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	ND	60		mg/Kg	20	2/8/2023 10:18:57 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-194 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/31/2023 10:45:00 AM
Lab ID: 2302145-010 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	2/8/2023 12:12:55 AM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	2/8/2023 12:12:55 AM
Surr: DNOP	130	69-147		%Rec	1	2/8/2023 12:12:55 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/10/2023 3:21:00 AM
Surr: BFB	96.7	37.7-212		%Rec	1	2/10/2023 3:21:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/10/2023 3:21:00 AM
Toluene	ND	0.047		mg/Kg	1	2/10/2023 3:21:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	2/10/2023 3:21:00 AM
Xylenes, Total	ND	0.094		mg/Kg	1	2/10/2023 3:21:00 AM
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	1	2/10/2023 3:21:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	400	60		mg/Kg	20	2/8/2023 10:56:11 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-195 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/31/2023 10:50:00 AM
Lab ID: 2302145-011 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/7/2023 9:45:45 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/7/2023 9:45:45 PM
Surr: DNOP	102	69-147		%Rec	1	2/7/2023 9:45:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/6/2023 1:49:47 PM
Surr: BFB	104	37.7-212		%Rec	1	2/6/2023 1:49:47 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/6/2023 1:49:47 PM
Toluene	ND	0.049		mg/Kg	1	2/6/2023 1:49:47 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/6/2023 1:49:47 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/6/2023 1:49:47 PM
Surr: 4-Bromofluorobenzene	89.7	70-130		%Rec	1	2/6/2023 1:49:47 PM
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	640	60		mg/Kg	20	2/8/2023 11:08:36 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-196 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/31/2023 10:55:00 AM
Lab ID: 2302145-012 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/7/2023 10:56:22 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/7/2023 10:56:22 PM
Surr: DNOP	98.7	69-147		%Rec	1	2/7/2023 10:56:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/6/2023 3:00:10 PM
Surr: BFB	102	37.7-212		%Rec	1	2/6/2023 3:00:10 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	2/6/2023 3:00:10 PM
Toluene	ND	0.049		mg/Kg	1	2/6/2023 3:00:10 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/6/2023 3:00:10 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/6/2023 3:00:10 PM
Surr: 4-Bromofluorobenzene	87.8	70-130		%Rec	1	2/6/2023 3:00:10 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	1800	60		mg/Kg	20	2/8/2023 6:38:47 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-197 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/31/2023 11:15:00 AM
Lab ID: 2302145-013 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/7/2023 11:19:58 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/7/2023 11:19:58 PM
Surr: DNOP	102	69-147		%Rec	1	2/7/2023 11:19:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/6/2023 4:11:04 PM
Surr: BFB	103	37.7-212		%Rec	1	2/6/2023 4:11:04 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.023		mg/Kg	1	2/6/2023 4:11:04 PM
Toluene	ND	0.047		mg/Kg	1	2/6/2023 4:11:04 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/6/2023 4:11:04 PM
Xylenes, Total	ND	0.093		mg/Kg	1	2/6/2023 4:11:04 PM
Surr: 4-Bromofluorobenzene	88.5	70-130		%Rec	1	2/6/2023 4:11:04 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	2300	150		mg/Kg	50	2/9/2023 9:20:00 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-198 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/31/2023 11:20:00 AM
Lab ID: 2302145-014 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/7/2023 11:43:32 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/7/2023 11:43:32 PM
Surr: DNOP	112	69-147		%Rec	1	2/7/2023 11:43:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/6/2023 4:34:42 PM
Surr: BFB	104	37.7-212		%Rec	1	2/6/2023 4:34:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/6/2023 4:34:42 PM
Toluene	ND	0.048		mg/Kg	1	2/6/2023 4:34:42 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/6/2023 4:34:42 PM
Xylenes, Total	ND	0.095		mg/Kg	1	2/6/2023 4:34:42 PM
Surr: 4-Bromofluorobenzene	90.0	70-130		%Rec	1	2/6/2023 4:34:42 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	550	60		mg/Kg	20	2/8/2023 8:17:32 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-199 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/31/2023 11:25:00 AM
Lab ID: 2302145-015 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	2/8/2023 12:07:06 AM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	2/8/2023 12:07:06 AM
Surr: DNOP	108	69-147		%Rec	1	2/8/2023 12:07:06 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/6/2023 4:58:23 PM
Surr: BFB	103	37.7-212		%Rec	1	2/6/2023 4:58:23 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	2/6/2023 4:58:23 PM
Toluene	ND	0.050		mg/Kg	1	2/6/2023 4:58:23 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/6/2023 4:58:23 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/6/2023 4:58:23 PM
Surr: 4-Bromofluorobenzene	89.0	70-130		%Rec	1	2/6/2023 4:58:23 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	1400	60		mg/Kg	20	2/8/2023 8:29:51 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-200 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/31/2023 11:30:00 AM
Lab ID: 2302145-016 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/8/2023 12:30:40 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/8/2023 12:30:40 AM
Surr: DNOP	111	69-147		%Rec	1	2/8/2023 12:30:40 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/6/2023 5:22:04 PM
Surr: BFB	101	37.7-212		%Rec	1	2/6/2023 5:22:04 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/6/2023 5:22:04 PM
Toluene	ND	0.048		mg/Kg	1	2/6/2023 5:22:04 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/6/2023 5:22:04 PM
Xylenes, Total	ND	0.096		mg/Kg	1	2/6/2023 5:22:04 PM
Surr: 4-Bromofluorobenzene	86.9	70-130		%Rec	1	2/6/2023 5:22:04 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	790	60		mg/Kg	20	2/8/2023 8:42:11 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-201 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/31/2023 11:35:00 AM
Lab ID: 2302145-017 **Matrix:** SOIL **Received Date:** 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	2/8/2023 12:54:13 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/8/2023 12:54:13 AM
Surr: DNOP	129	69-147		%Rec	1	2/8/2023 12:54:13 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/6/2023 6:09:10 PM
Surr: BFB	102	37.7-212		%Rec	1	2/6/2023 6:09:10 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	2/6/2023 6:09:10 PM
Toluene	ND	0.049		mg/Kg	1	2/6/2023 6:09:10 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/6/2023 6:09:10 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/6/2023 6:09:10 PM
Surr: 4-Bromofluorobenzene	89.1	70-130		%Rec	1	2/6/2023 6:09:10 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	180	60		mg/Kg	20	2/8/2023 8:54:32 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-202 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/31/2023 11:40:00 AM
Lab ID: 2302145-018 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	2/8/2023 1:17:40 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/8/2023 1:17:40 AM
Surr: DNOP	107	69-147		%Rec	1	2/8/2023 1:17:40 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/6/2023 6:32:34 PM
Surr: BFB	105	37.7-212		%Rec	1	2/6/2023 6:32:34 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/6/2023 6:32:34 PM
Toluene	ND	0.048		mg/Kg	1	2/6/2023 6:32:34 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/6/2023 6:32:34 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/6/2023 6:32:34 PM
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	2/6/2023 6:32:34 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	610	60		mg/Kg	20	2/8/2023 9:06:53 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-203 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/31/2023 11:45:00 AM
Lab ID: 2302145-019 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/8/2023 1:41:00 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/8/2023 1:41:00 AM
Surr: DNOP	117	69-147		%Rec	1	2/8/2023 1:41:00 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/6/2023 6:56:09 PM
Surr: BFB	104	37.7-212		%Rec	1	2/6/2023 6:56:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	2/6/2023 6:56:09 PM
Toluene	ND	0.050		mg/Kg	1	2/6/2023 6:56:09 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/6/2023 6:56:09 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/6/2023 6:56:09 PM
Surr: 4-Bromofluorobenzene	89.6	70-130		%Rec	1	2/6/2023 6:56:09 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	3500	150		mg/Kg	50	2/9/2023 9:32:21 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-204 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/31/2023 11:50:00 AM
Lab ID: 2302145-020 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/8/2023 2:04:16 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/8/2023 2:04:16 AM
Surr: DNOP	121	69-147		%Rec	1	2/8/2023 2:04:16 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/6/2023 7:19:44 PM
Surr: BFB	101	37.7-212		%Rec	1	2/6/2023 7:19:44 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	2/6/2023 7:19:44 PM
Toluene	ND	0.050		mg/Kg	1	2/6/2023 7:19:44 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/6/2023 7:19:44 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/6/2023 7:19:44 PM
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	2/6/2023 7:19:44 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	2400	150		mg/Kg	50	2/9/2023 9:44:41 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-205 4'
Project: Todd 36 State 1 Pasture
Collection Date: 1/31/2023 11:55:00 AM
Lab ID: 2302145-021 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/8/2023 2:27:31 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/8/2023 2:27:31 AM
Surr: DNOP	108	69-147		%Rec	1	2/8/2023 2:27:31 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/6/2023 7:43:21 PM
Surr: BFB	104	37.7-212		%Rec	1	2/6/2023 7:43:21 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/6/2023 7:43:21 PM
Toluene	ND	0.048		mg/Kg	1	2/6/2023 7:43:21 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/6/2023 7:43:21 PM
Xylenes, Total	ND	0.095		mg/Kg	1	2/6/2023 7:43:21 PM
Surr: 4-Bromofluorobenzene	89.8	70-130		%Rec	1	2/6/2023 7:43:21 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	2500	150		mg/Kg	50	2/9/2023 9:57:03 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-206 4'
Project: Todd 36 State 1 Pasture
Collection Date: 2/1/2023 10:00:00 AM
Lab ID: 2302145-022 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/8/2023 2:50:41 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/8/2023 2:50:41 AM
Surr: DNOP	108	69-147		%Rec	1	2/8/2023 2:50:41 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/6/2023 8:06:55 PM
Surr: BFB	102	37.7-212		%Rec	1	2/6/2023 8:06:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	2/6/2023 8:06:55 PM
Toluene	ND	0.049		mg/Kg	1	2/6/2023 8:06:55 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/6/2023 8:06:55 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/6/2023 8:06:55 PM
Surr: 4-Bromofluorobenzene	87.8	70-130		%Rec	1	2/6/2023 8:06:55 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	61	60		mg/Kg	20	2/8/2023 10:20:58 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-207 4'
Project: Todd 36 State 1 Pasture
Collection Date: 2/1/2023 10:15:00 AM
Lab ID: 2302145-023 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/8/2023 3:13:51 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/8/2023 3:13:51 AM
Surr: DNOP	111	69-147		%Rec	1	2/8/2023 3:13:51 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/6/2023 8:30:31 PM
Surr: BFB	103	37.7-212		%Rec	1	2/6/2023 8:30:31 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/6/2023 8:30:31 PM
Toluene	ND	0.048		mg/Kg	1	2/6/2023 8:30:31 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/6/2023 8:30:31 PM
Xylenes, Total	ND	0.095		mg/Kg	1	2/6/2023 8:30:31 PM
Surr: 4-Bromofluorobenzene	88.2	70-130		%Rec	1	2/6/2023 8:30:31 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	750	60		mg/Kg	20	2/8/2023 10:33:19 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-208 4'
Project: Todd 36 State 1 Pasture
Collection Date: 2/1/2023 10:30:00 AM
Lab ID: 2302145-024 **Matrix:** SOIL **Received Date:** 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/8/2023 3:37:01 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/8/2023 3:37:01 AM
Surr: DNOP	107	69-147		%Rec	1	2/8/2023 3:37:01 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/6/2023 8:54:05 PM
Surr: BFB	105	37.7-212		%Rec	1	2/6/2023 8:54:05 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/6/2023 8:54:05 PM
Toluene	ND	0.048		mg/Kg	1	2/6/2023 8:54:05 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/6/2023 8:54:05 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/6/2023 8:54:05 PM
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	2/6/2023 8:54:05 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	210	60		mg/Kg	20	2/8/2023 10:45:40 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-209 4'
Project: Todd 36 State 1 Pasture
Collection Date: 2/1/2023 10:45:00 AM
Lab ID: 2302145-025 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/8/2023 4:00:25 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/8/2023 4:00:25 AM
Surr: DNOP	105	69-147		%Rec	1	2/8/2023 4:00:25 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/6/2023 9:17:31 PM
Surr: BFB	106	37.7-212		%Rec	1	2/6/2023 9:17:31 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/6/2023 9:17:31 PM
Toluene	ND	0.048		mg/Kg	1	2/6/2023 9:17:31 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/6/2023 9:17:31 PM
Xylenes, Total	ND	0.096		mg/Kg	1	2/6/2023 9:17:31 PM
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	2/6/2023 9:17:31 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	170	60		mg/Kg	20	2/8/2023 10:58:02 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-210 4'
Project: Todd 36 State 1 Pasture
Collection Date: 2/1/2023 11:00:00 AM
Lab ID: 2302145-026 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/8/2023 4:23:52 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/8/2023 4:23:52 AM
Surr: DNOP	108	69-147		%Rec	1	2/8/2023 4:23:52 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/10/2023 3:02:40 AM
Surr: BFB	98.7	37.7-212		%Rec	1	2/10/2023 3:02:40 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/6/2023 9:41:03 PM
Toluene	ND	0.048		mg/Kg	1	2/6/2023 9:41:03 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/6/2023 9:41:03 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/6/2023 9:41:03 PM
Surr: 4-Bromofluorobenzene	91.0	70-130		%Rec	1	2/6/2023 9:41:03 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	780	60		mg/Kg	20	2/8/2023 11:10:22 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-211 4'
Project: Todd 36 State 1 Pasture
Collection Date: 2/1/2023 11:15:00 AM
Lab ID: 2302145-027 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/8/2023 6:06:12 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/8/2023 6:06:12 AM
Surr: DNOP	97.9	69-147		%Rec	1	2/8/2023 6:06:12 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/9/2023 12:06:09 AM
Surr: BFB	101	37.7-212		%Rec	1	2/9/2023 12:06:09 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/9/2023 12:06:09 AM
Toluene	ND	0.047		mg/Kg	1	2/9/2023 12:06:09 AM
Ethylbenzene	ND	0.047		mg/Kg	1	2/9/2023 12:06:09 AM
Xylenes, Total	ND	0.094		mg/Kg	1	2/9/2023 12:06:09 AM
Surr: 4-Bromofluorobenzene	85.1	70-130		%Rec	1	2/9/2023 12:06:09 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	190	60		mg/Kg	20	2/8/2023 11:22:43 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-212 4'
Project: Todd 36 State 1 Pasture
Collection Date: 2/1/2023 11:30:00 AM
Lab ID: 2302145-028 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 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	2/8/2023 6:20:01 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/8/2023 6:20:01 AM
Surr: DNOP	98.5	69-147		%Rec	1	2/8/2023 6:20:01 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/9/2023 12:29:34 AM
Surr: BFB	101	37.7-212		%Rec	1	2/9/2023 12:29:34 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/9/2023 12:29:34 AM
Toluene	ND	0.048		mg/Kg	1	2/9/2023 12:29:34 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/9/2023 12:29:34 AM
Xylenes, Total	ND	0.097		mg/Kg	1	2/9/2023 12:29:34 AM
Surr: 4-Bromofluorobenzene	85.2	70-130		%Rec	1	2/9/2023 12:29:34 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	830	60		mg/Kg	20	2/8/2023 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-213 4'
Project: Todd 36 State 1 Pasture
Collection Date: 2/1/2023 12:00:00 PM
Lab ID: 2302145-029 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 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	2/8/2023 6:34:09 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/8/2023 6:34:09 AM
Surr: DNOP	105	69-147		%Rec	1	2/8/2023 6:34:09 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/9/2023 12:52:55 AM
Surr: BFB	101	37.7-212		%Rec	1	2/9/2023 12:52:55 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.023		mg/Kg	1	2/9/2023 12:52:55 AM
Toluene	ND	0.047		mg/Kg	1	2/9/2023 12:52:55 AM
Ethylbenzene	ND	0.047		mg/Kg	1	2/9/2023 12:52:55 AM
Xylenes, Total	ND	0.094		mg/Kg	1	2/9/2023 12:52:55 AM
Surr: 4-Bromofluorobenzene	85.6	70-130		%Rec	1	2/9/2023 12:52:55 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	61		mg/Kg	20	2/8/2023 11:47:24 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-214 4'
Project: Todd 36 State 1 Pasture
Collection Date: 2/1/2023 12:15:00 PM
Lab ID: 2302145-030 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	9.7	9.7		mg/Kg	1	2/8/2023 6:47:54 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/8/2023 6:47:54 AM
Surr: DNOP	104	69-147		%Rec	1	2/8/2023 6:47:54 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/9/2023 1:16:20 AM
Surr: BFB	99.0	37.7-212		%Rec	1	2/9/2023 1:16:20 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/9/2023 1:16:20 AM
Toluene	ND	0.049		mg/Kg	1	2/9/2023 1:16:20 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/9/2023 1:16:20 AM
Xylenes, Total	ND	0.097		mg/Kg	1	2/9/2023 1:16:20 AM
Surr: 4-Bromofluorobenzene	84.5	70-130		%Rec	1	2/9/2023 1:16:20 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	2/8/2023 11:59:45 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WES23-01 0-4'
Project: Todd 36 State 1 Pasture
Collection Date: 2/1/2023 12:20:00 PM
Lab ID: 2302145-031 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/8/2023 7:01:47 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/8/2023 7:01:47 AM
Surr: DNOP	97.4	69-147		%Rec	1	2/8/2023 7:01:47 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/9/2023 1:39:42 AM
Surr: BFB	99.7	37.7-212		%Rec	1	2/9/2023 1:39:42 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/9/2023 1:39:42 AM
Toluene	ND	0.047		mg/Kg	1	2/9/2023 1:39:42 AM
Ethylbenzene	ND	0.047		mg/Kg	1	2/9/2023 1:39:42 AM
Xylenes, Total	ND	0.094		mg/Kg	1	2/9/2023 1:39:42 AM
Surr: 4-Bromofluorobenzene	85.8	70-130		%Rec	1	2/9/2023 1:39:42 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	290	60		mg/Kg	20	2/9/2023 12:12:06 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WES23-02 0-4'
Project: Todd 36 State 1 Pasture
Collection Date: 2/1/2023 12:25:00 PM
Lab ID: 2302145-032 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	9.9	9.7		mg/Kg	1	2/8/2023 7:15:52 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/8/2023 7:15:52 AM
Surr: DNOP	92.5	69-147		%Rec	1	2/8/2023 7:15:52 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/9/2023 2:03:05 AM
Surr: BFB	99.8	37.7-212		%Rec	1	2/9/2023 2:03:05 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/9/2023 2:03:05 AM
Toluene	ND	0.049		mg/Kg	1	2/9/2023 2:03:05 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/9/2023 2:03:05 AM
Xylenes, Total	ND	0.097		mg/Kg	1	2/9/2023 2:03:05 AM
Surr: 4-Bromofluorobenzene	84.8	70-130		%Rec	1	2/9/2023 2:03:05 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	300	60		mg/Kg	20	2/9/2023 10:09:24 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WES23-03 0-4'
Project: Todd 36 State 1 Pasture
Collection Date: 2/1/2023 12:30:00 PM
Lab ID: 2302145-033 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	11	9.8		mg/Kg	1	2/8/2023 7:29:41 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/8/2023 7:29:41 AM
Surr: DNOP	98.2	69-147		%Rec	1	2/8/2023 7:29:41 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/9/2023 2:26:25 AM
Surr: BFB	99.2	37.7-212		%Rec	1	2/9/2023 2:26:25 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/9/2023 2:26:25 AM
Toluene	ND	0.048		mg/Kg	1	2/9/2023 2:26:25 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/9/2023 2:26:25 AM
Xylenes, Total	ND	0.096		mg/Kg	1	2/9/2023 2:26:25 AM
Surr: 4-Bromofluorobenzene	84.0	70-130		%Rec	1	2/9/2023 2:26:25 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	190	60		mg/Kg	20	2/9/2023 11:11:07 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WES23-04 0-4'
Project: Todd 36 State 1 Pasture
Collection Date: 2/1/2023 12:35:00 PM
Lab ID: 2302145-034 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	2/8/2023 7:43:45 AM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	2/8/2023 7:43:45 AM
Surr: DNOP	75.8	69-147		%Rec	1	2/8/2023 7:43:45 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/9/2023 2:49:44 AM
Surr: BFB	96.9	37.7-212		%Rec	1	2/9/2023 2:49:44 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	2/9/2023 2:49:44 AM
Toluene	ND	0.049		mg/Kg	1	2/9/2023 2:49:44 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/9/2023 2:49:44 AM
Xylenes, Total	ND	0.098		mg/Kg	1	2/9/2023 2:49:44 AM
Surr: 4-Bromofluorobenzene	83.0	70-130		%Rec	1	2/9/2023 2:49:44 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	60	59		mg/Kg	20	2/9/2023 11:48:08 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WES23-05 0-4'
Project: Todd 36 State 1 Pasture
Collection Date: 2/1/2023 12:40:00 PM
Lab ID: 2302145-035 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	9.2	9.1		mg/Kg	1	2/8/2023 7:57:36 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/8/2023 7:57:36 AM
Surr: DNOP	93.1	69-147		%Rec	1	2/8/2023 7:57:36 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/9/2023 3:12:57 AM
Surr: BFB	97.3	37.7-212		%Rec	1	2/9/2023 3:12:57 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	2/9/2023 3:12:57 AM
Toluene	ND	0.048		mg/Kg	1	2/9/2023 3:12:57 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/9/2023 3:12:57 AM
Xylenes, Total	ND	0.095		mg/Kg	1	2/9/2023 3:12:57 AM
Surr: 4-Bromofluorobenzene	83.4	70-130		%Rec	1	2/9/2023 3:12:57 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	2/9/2023 12:00:29 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WES23-06 0-4'
Project: Todd 36 State 1 Pasture
Collection Date: 2/1/2023 12:45:00 PM
Lab ID: 2302145-036 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 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	2/10/2023 6:56:50 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/10/2023 6:56:50 AM
Surr: DNOP	126	69-147		%Rec	1	2/10/2023 6:56:50 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JR**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/10/2023 10:41:00 AM
Surr: BFB	92.8	37.7-212		%Rec	1	2/10/2023 10:41:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JR**
Benzene	ND	0.024		mg/Kg	1	2/10/2023 10:41:00 AM
Toluene	ND	0.048		mg/Kg	1	2/10/2023 10:41:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/10/2023 10:41:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	2/10/2023 10:41:00 AM
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	2/10/2023 10:41:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	160	60		mg/Kg	20	2/9/2023 12:12:51 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WES23-07 0-4'
Project: Todd 36 State 1 Pasture
Collection Date: 2/1/2023 12:50:00 PM
Lab ID: 2302145-037 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	2/10/2023 8:07:35 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/10/2023 8:07:35 AM
Surr: DNOP	108	69-147		%Rec	1	2/10/2023 8:07:35 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JR**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/10/2023 11:40:00 AM
Surr: BFB	96.2	37.7-212		%Rec	1	2/10/2023 11:40:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JR**
Benzene	ND	0.024		mg/Kg	1	2/10/2023 11:40:00 AM
Toluene	ND	0.048		mg/Kg	1	2/10/2023 11:40:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/10/2023 11:40:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	2/10/2023 11:40:00 AM
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	2/10/2023 11:40:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	2/9/2023 12:25:11 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WES23-08 0-4'
Project: Todd 36 State 1 Pasture
Collection Date: 2/1/2023 12:55:00 PM
Lab ID: 2302145-038 **Matrix:** SOIL
Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	2/10/2023 8:31:12 AM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	2/10/2023 8:31:12 AM
Surr: DNOP	108	69-147		%Rec	1	2/10/2023 8:31:12 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JR**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/10/2023 12:39:00 PM
Surr: BFB	95.1	37.7-212		%Rec	1	2/10/2023 12:39:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JR**
Benzene	ND	0.024		mg/Kg	1	2/10/2023 12:39:00 PM
Toluene	ND	0.049		mg/Kg	1	2/10/2023 12:39:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/10/2023 12:39:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/10/2023 12:39:00 PM
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	2/10/2023 12:39:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	91	60		mg/Kg	20	2/9/2023 12:37:32 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WES23-09 0-4'
Project: Todd 36 State 1 Pasture
Collection Date: 2/1/2023 1:00:00 PM
Lab ID: 2302145-039 **Matrix:** SOIL **Received Date:** 2/3/2023 7:25:00 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	2/10/2023 8:54:46 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/10/2023 8:54:46 AM
Surr: DNOP	117	69-147		%Rec	1	2/10/2023 8:54:46 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JR**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/10/2023 12:59:00 PM
Surr: BFB	92.2	37.7-212		%Rec	1	2/10/2023 12:59:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JR**
Benzene	ND	0.024		mg/Kg	1	2/10/2023 12:59:00 PM
Toluene	ND	0.048		mg/Kg	1	2/10/2023 12:59:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/10/2023 12:59:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	2/10/2023 12:59:00 PM
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	2/10/2023 12:59:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	80	60		mg/Kg	20	2/9/2023 1:14:35 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302145**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WES23-10 0-4'
Project: Todd 36 State 1 Pasture
Collection Date: 2/1/2023 1:05:00 PM
Lab ID: 2302145-040 **Matrix:** SOIL **Received Date:** 2/3/2023 7:25:00 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	2/10/2023 9:18:20 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/10/2023 9:18:20 AM
Surr: DNOP	126	69-147		%Rec	1	2/10/2023 9:18:20 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JR**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/10/2023 1:18:00 PM
Surr: BFB	94.3	37.7-212		%Rec	1	2/10/2023 1:18:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JR**
Benzene	ND	0.024		mg/Kg	1	2/10/2023 1:18:00 PM
Toluene	ND	0.049		mg/Kg	1	2/10/2023 1:18:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/10/2023 1:18:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/10/2023 1:18:00 PM
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	2/10/2023 1:18:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	70	61		mg/Kg	20	2/9/2023 1:26:56 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 Quanitative 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#: **2302145**

14-Feb-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **MB-73068**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**								
Client ID: **PBS**	Batch ID: **73068**	RunNo: **94479**								
Prep Date: **2/8/2023**	Analysis Date: **2/8/2023**	SeqNo: **3414994**	Units: **mg/Kg**							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-73068**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**								
Client ID: **LCSS**	Batch ID: **73068**	RunNo: **94479**								
Prep Date: **2/8/2023**	Analysis Date: **2/8/2023**	SeqNo: **3414995**	Units: **mg/Kg**							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	90	110			

Sample ID: **MB-73088**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**								
Client ID: **PBS**	Batch ID: **73088**	RunNo: **94479**								
Prep Date: **2/8/2023**	Analysis Date: **2/8/2023**	SeqNo: **3415035**	Units: **mg/Kg**							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-73088**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**								
Client ID: **LCSS**	Batch ID: **73088**	RunNo: **94479**								
Prep Date: **2/8/2023**	Analysis Date: **2/8/2023**	SeqNo: **3415036**	Units: **mg/Kg**							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.7	90	110			

Sample ID: **MB-73089**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**								
Client ID: **PBS**	Batch ID: **73089**	RunNo: **94504**								
Prep Date: **2/8/2023**	Analysis Date: **2/8/2023**	SeqNo: **3415529**	Units: **mg/Kg**							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-73089**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**								
Client ID: **LCSS**	Batch ID: **73089**	RunNo: **94504**								
Prep Date: **2/8/2023**	Analysis Date: **2/8/2023**	SeqNo: **3415530**	Units: **mg/Kg**							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.2	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2302145**

14-Feb-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **MB-73095**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **73095**	RunNo: **94530**
Prep Date: **2/9/2023**	Analysis Date: **2/9/2023**	SeqNo: **3416755** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-73095**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **73095**	RunNo: **94530**
Prep Date: **2/9/2023**	Analysis Date: **2/9/2023**	SeqNo: **3416756** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.4	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2302145**

14-Feb-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **MB-73021**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **73021**	RunNo: **94435**							
Prep Date: **2/6/2023**	Analysis Date: **2/7/2023**	SeqNo: **3412839**	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		118	69	147			

Sample ID: **LCS-73021**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **73021**	RunNo: **94435**							
Prep Date: **2/6/2023**	Analysis Date: **2/7/2023**	SeqNo: **3412840**	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	5.0		5.000		101	69	147			

Sample ID: **2302145-011AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **BES23-195 4'**	Batch ID: **73021**	RunNo: **94435**							
Prep Date: **2/6/2023**	Analysis Date: **2/7/2023**	SeqNo: **3412842**	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	54.2	135			
Surr: DNOP	5.0		5.000		99.1	69	147			

Sample ID: **2302145-011AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **BES23-195 4'**	Batch ID: **73021**	RunNo: **94435**							
Prep Date: **2/6/2023**	Analysis Date: **2/7/2023**	SeqNo: **3412843**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.2	46.17	0	97.1	54.2	135	8.27	29.2	
Surr: DNOP	4.6		4.617		99.9	69	147	0	0	

Sample ID: **LCS-73014**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **73014**	RunNo: **94448**							
Prep Date: **2/6/2023**	Analysis Date: **2/7/2023**	SeqNo: **3413654**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	62	10	50.00	0	125	61.9	130			
Surr: DNOP	5.6		5.000		113	69	147			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2302145**

14-Feb-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **MB-73030**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **73030**	RunNo: **94448**
Prep Date: **2/6/2023**	Analysis Date: **2/7/2023**	SeqNo: **3413657** 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		101	69	147			

Sample ID: **LCS-73030**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **73030**	RunNo: **94448**
Prep Date: **2/6/2023**	Analysis Date: **2/7/2023**	SeqNo: **3413658** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	10	50.00	0	116	61.9	130			
Surr: DNOP	4.9		5.000		97.8	69	147			

Sample ID: **MB-73014**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **73014**	RunNo: **94502**
Prep Date: **2/6/2023**	Analysis Date: **2/9/2023**	SeqNo: **3415108** 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		121	69	147			

Sample ID: **MB-73042**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **73042**	RunNo: **94502**
Prep Date: **2/7/2023**	Analysis Date: **2/9/2023**	SeqNo: **3416464** 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		121	69	147			

Sample ID: **LCS-73042**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **73042**	RunNo: **94502**
Prep Date: **2/7/2023**	Analysis Date: **2/9/2023**	SeqNo: **3416465** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	64	10	50.00	0	128	61.9	130			
Surr: DNOP	6.9		5.000		138	69	147			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2302145**

14-Feb-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **2302145-036AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **WES23-06 0-4'** Batch ID: **73042** RunNo: **94502**

Prep Date: **2/7/2023** Analysis Date: **2/10/2023** SeqNo: **3416490** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	8.5	42.52	0	121	54.2	135			
Surr: DNOP	5.4		4.252		127	69	147			

Sample ID: **2302145-036AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **WES23-06 0-4'** Batch ID: **73042** RunNo: **94502**

Prep Date: **2/7/2023** Analysis Date: **2/10/2023** SeqNo: **3416491** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	8.8	44.21	0	109	54.2	135	5.77	29.2	
Surr: DNOP	5.0		4.421		114	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2302145**

14-Feb-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **lcs-73000**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **73000**	RunNo: **94414**
Prep Date: **2/3/2023**	Analysis Date: **2/6/2023**	SeqNo: **3411237** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	72.3	137			
Surr: BFB	1100		1000		115	37.7	212			

Sample ID: **mb-73000**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **73000**	RunNo: **94414**
Prep Date: **2/3/2023**	Analysis Date: **2/6/2023**	SeqNo: **3411238** 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	37.7	212			

Sample ID: **2302145-011ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BES23-195 4'**	Batch ID: **73000**	RunNo: **94414**
Prep Date: **2/3/2023**	Analysis Date: **2/6/2023**	SeqNo: **3411644** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.46	0	107	70	130			
Surr: BFB	1100		978.5		116	37.7	212			

Sample ID: **2302145-011amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BES23-195 4'**	Batch ID: **73000**	RunNo: **94414**
Prep Date: **2/3/2023**	Analysis Date: **2/6/2023**	SeqNo: **3411645** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.8	24.18	0	107	70	130	0.906	20	
Surr: BFB	1100		967.1		116	37.7	212	0	0	

Sample ID: **lcs-73024**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **73024**	RunNo: **94444**
Prep Date: **2/6/2023**	Analysis Date: **2/7/2023**	SeqNo: **3413053** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	111	72.3	137			
Surr: BFB	1100		1000		113	37.7	212			

Sample ID: **mb-73024**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **73024**	RunNo: **94444**
Prep Date: **2/6/2023**	Analysis Date: **2/7/2023**	SeqNo: **3413054** 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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2302145**

14-Feb-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **mb-73024**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **73024**	RunNo: **94444**
Prep Date: **2/6/2023**	Analysis Date: **2/7/2023**	SeqNo: **3413054** 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		104	37.7	212			

Sample ID: **lcs-73053**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **73053**	RunNo: **94468**
Prep Date: **2/7/2023**	Analysis Date: **2/8/2023**	SeqNo: **3413852** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		112	37.7	212			

Sample ID: **mb-73053**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **73053**	RunNo: **94468**
Prep Date: **2/7/2023**	Analysis Date: **2/8/2023**	SeqNo: **3413853** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		99.5	37.7	212			

Sample ID: **lcs-72999**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **72999**	RunNo: **94498**
Prep Date: **2/3/2023**	Analysis Date: **2/9/2023**	SeqNo: **3416389** 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	72.3	137			
Surr: BFB	1100		1000		108	37.7	212			

Sample ID: **mb-72999**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **72999**	RunNo: **94498**
Prep Date: **2/3/2023**	Analysis Date: **2/9/2023**	SeqNo: **3416391** 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		96.0	37.7	212			

Sample ID: **lcs-73036**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **73036**	RunNo: **94536**
Prep Date: **2/6/2023**	Analysis Date: **2/10/2023**	SeqNo: **3417078** 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	72.3	137			
Surr: BFB	1100		1000		112	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2302145**

14-Feb-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **mb-73036**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **73036**	RunNo: **94536**
Prep Date: **2/6/2023**	Analysis Date: **2/10/2023**	SeqNo: **3417079** 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	37.7	212			

Sample ID: **2302145-036ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **WES23-06 0-4'**	Batch ID: **73036**	RunNo: **94536**
Prep Date: **2/6/2023**	Analysis Date: **2/10/2023**	SeqNo: **3417081** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	23.92	0	100	70	130			
Surr: BFB	980		956.9		102	37.7	212			

Sample ID: **2302145-036amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **WES23-06 0-4'**	Batch ID: **73036**	RunNo: **94536**
Prep Date: **2/6/2023**	Analysis Date: **2/10/2023**	SeqNo: **3417082** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.8	24.04	0	108	70	130	7.90	20	
Surr: BFB	1000		961.5		106	37.7	212	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2302145**

14-Feb-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **LCS-73000**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **73000**	RunNo: **94414**
Prep Date: **2/3/2023**	Analysis Date: **2/6/2023**	SeqNo: **3411242** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	87.2	80	120			
Toluene	0.88	0.050	1.000	0	87.9	80	120			
Ethylbenzene	0.86	0.050	1.000	0	85.9	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.0	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		91.0	70	130			

Sample ID: **mb-73000**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **73000**	RunNo: **94414**
Prep Date: **2/3/2023**	Analysis Date: **2/6/2023**	SeqNo: **3411243** 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	0.92		1.000		91.6	70	130			

Sample ID: **2302145-012ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BES23-196 4'**	Batch ID: **73000**	RunNo: **94414**
Prep Date: **2/3/2023**	Analysis Date: **2/6/2023**	SeqNo: **3411716** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	0.9872	0	86.8	68.8	120			
Toluene	0.87	0.049	0.9872	0.01709	86.3	73.6	124			
Ethylbenzene	0.87	0.049	0.9872	0	87.7	72.7	129			
Xylenes, Total	2.6	0.099	2.962	0	88.3	75.7	126			
Surr: 4-Bromofluorobenzene	0.88		0.9872		89.3	70	130			

Sample ID: **2302145-012amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BES23-196 4'**	Batch ID: **73000**	RunNo: **94414**
Prep Date: **2/3/2023**	Analysis Date: **2/6/2023**	SeqNo: **3411717** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	0.9881	0	91.2	68.8	120	5.06	20	
Toluene	0.91	0.049	0.9881	0.01709	90.6	73.6	124	4.86	20	
Ethylbenzene	0.91	0.049	0.9881	0	91.9	72.7	129	4.74	20	
Xylenes, Total	2.7	0.099	2.964	0	92.1	75.7	126	4.33	20	
Surr: 4-Bromofluorobenzene	0.89		0.9881		90.4	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2302145**

14-Feb-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **LCS-73024**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **73024**	RunNo: **94444**
Prep Date: **2/6/2023**	Analysis Date: **2/7/2023**	SeqNo: **3413179** 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	91.5	80	120			
Toluene	0.93	0.050	1.000	0	93.0	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.3	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.4	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		91.8	70	130			

Sample ID: **mb-73024**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **73024**	RunNo: **94444**
Prep Date: **2/6/2023**	Analysis Date: **2/7/2023**	SeqNo: **3413180** 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	0.92		1.000		91.6	70	130			

Sample ID: **LCS-73053**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **73053**	RunNo: **94468**
Prep Date: **2/7/2023**	Analysis Date: **2/8/2023**	SeqNo: **3413860** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.85		1.000		85.5	70	130			

Sample ID: **mb-73053**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **73053**	RunNo: **94468**
Prep Date: **2/7/2023**	Analysis Date: **2/8/2023**	SeqNo: **3413861** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.84		1.000		84.1	70	130			

Sample ID: **lcs-72999**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **72999**	RunNo: **94498**
Prep Date: **2/3/2023**	Analysis Date: **2/9/2023**	SeqNo: **3416512** 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	97.1	80	120			
Toluene	0.97	0.050	1.000	0	97.1	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.1	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.1	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of 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#: **2302145**

14-Feb-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **lcs-72999**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **72999**	RunNo: **94498**
Prep Date: **2/3/2023**	Analysis Date: **2/9/2023**	SeqNo: **3416512** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.95		1.000		95.0	70	130			

Sample ID: **mb-72999**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **72999**	RunNo: **94498**
Prep Date: **2/3/2023**	Analysis Date: **2/9/2023**	SeqNo: **3416513** 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		94.7	70	130			

Sample ID: **lcs-73036**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **73036**	RunNo: **94536**
Prep Date: **2/6/2023**	Analysis Date: **2/10/2023**	SeqNo: **3417089** 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	94.8	80	120			
Toluene	0.95	0.050	1.000	0	95.4	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.9	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.5	70	130			

Sample ID: **mb-73036**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **73036**	RunNo: **94536**
Prep Date: **2/6/2023**	Analysis Date: **2/10/2023**	SeqNo: **3417090** 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		95.1	70	130			

Sample ID: **2302145-037ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **WES23-07 0-4'**	Batch ID: **73036**	RunNo: **94536**
Prep Date: **2/6/2023**	Analysis Date: **2/10/2023**	SeqNo: **3417093** 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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2302145**

14-Feb-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **2302145-037ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **WES23-07 0-4'**	Batch ID: **73036**	RunNo: **94536**
Prep Date: **2/6/2023**	Analysis Date: **2/10/2023**	SeqNo: **3417093** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.024	0.9470	0	93.2	68.8	120			
Toluene	0.92	0.047	0.9470	0.02806	93.8	73.6	124			
Ethylbenzene	0.91	0.047	0.9470	0	96.0	72.7	129			
Xylenes, Total	2.7	0.095	2.841	0	95.3	75.7	126			
Surr: 4-Bromofluorobenzene	0.89		0.9470		93.5	70	130			

Sample ID: **2302145-037amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **WES23-07 0-4'**	Batch ID: **73036**	RunNo: **94536**
Prep Date: **2/6/2023**	Analysis Date: **2/10/2023**	SeqNo: **3417094** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.024	0.9524	0	94.0	68.8	120	1.41	20	
Toluene	0.94	0.048	0.9524	0.02806	95.6	73.6	124	2.39	20	
Ethylbenzene	0.92	0.048	0.9524	0	97.1	72.7	129	1.71	20	
Xylenes, Total	2.8	0.095	2.857	0	96.7	75.7	126	2.06	20	
Surr: 4-Bromofluorobenzene	0.89		0.9524		93.3	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 2302145

RcptNo: 1

Received By: Tracy Casarrubias 2/3/2023 7:25:00 AM

Completed By: Tracy Casarrubias 2/3/2023 8:20:15 AM

Reviewed By: SCA 2/3/23

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° 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: JR 2/3/23

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	4.1	Good	Yes	Morty		

Received by OCD: 1/21/2026 6:39:41 AM

Released to Imaging: 3/18/2026 3:36:11 PM

Chain-of-Custody Record

Client: ~~Vertex~~ Devon (Vertex)

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: ToJ36State 1 "Pasture"

Project #: 21E-02816

Project Manager: Kent Stallings

Sampler: J. Reta mony

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 4.3-0.2=4.1 (°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. 2302145	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)
1-31-23	10:00	soil	BES23-182 4'	jar	ice	001										
	10:05		BES23-183 4'			002										
	10:10		BES23-184 4'			003										
	10:15		BES23-185 4'			004										
	10:20		BES23-186 4'			005										
	10:25		BES23-187 4'			006										
	10:30		BES23-188 4'			007										
	10:35		BES23-189 4'			008										
	10:40		BES23-193 4'			009										
	10:45		BES23-194 4'			010										
	10:50		BES23-195 4'			011										
	10:55		BES23-196 4'			012										

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
1/31/23	16:33	J. Reta				
2/2/23	1900				2/3/23	7:25

Remarks:
direct bill to Devon

CC Monica Peppin and Jacob Reta Devon/Harvard.

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~~ Devon (Vertex)

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:
Todd 36 State 1 "Pasture"

Project #:
21E-02816

Project Manager:
Kent Stallings

Sampler: J. Reta monty

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 4.3-0.2=4.1 (°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. 2302145	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)
1-31-23	11:15	Soil	BES23-197 4'	jar	ice	013										
	11:20		BES23-198 4'			014										
	11:25		BES23-199 4'			015										
	11:30		BES23-200 4'			016										
	11:35		BES23-201 4'			017										
	11:40		BES23-202 4'			018										
	11:45		BES23-203 4'			019										
	11:50		BES23-204 4'			020										
	11:55		BES23-205 4'			021										

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
1/31/23	16:33	J. Reta				
2/2/23	1900				2/2/23	900

Remarks:
Direct bill to Devon
CC Monica Peppin and Jacob Reta
Devon / Harvard.

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Chain-of-Custody Record

Client: Devon (Vertex)

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: Todd 36 State 1 "Pasture"

Project #: 21E-02816

Project Manager: Kent Stallings

Sampler: J. Reta monty

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp (Including CF): 4.3 - 0.2 = 4.1 (°C)

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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. 2302145	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)
02/01/23	10:00	Soil	BES23-206 4'	4oz Jar	Ice	022										
	10:15		BES23-207 4'			023										
	10:30		BES23-208 4'			024										
	10:45		BES23-209 4'			025										
	11:00		BES23-210 4'			026										
	11:15		BES23-211 4'			027										
	11:30		BES23-212 4'			028										
	12:00		BES23-213 4'			029										
	12:15		BES23-214 4'			030										

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
02/01/23	16:45	J. Reta			2/2/23	900
2/2/23	1900				2/3/23	7:25

Remarks: Direct Bill to Devon
cc: Monica Peppin & Jacob Reta
Devon/Harvard

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Chain-of-Custody Record

Client: Devon (Vertex)

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: Todd 36 State 1 "Pasture"

Project #: 21E-02816

Project Manager: Kent Stallings

Sampler: J. Reta

On Ice: ☑ Yes ☐ No Monty

# of Coolers: 1

Cooler Temp(including CF): 4.3 - 0.2 = 4.1 (°C)

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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. 2302145	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)
02/01/2023	12:20	Soil	WES23-01 0-4'	4oz Jar	Ice	031										
	12:25		WES23-02 0-4'			032										
	12:30		WES23-03 0-4'			033										
	12:35		WES23-04 0-4'			034										
	12:40		WES23-05 0-4'			035										
	12:45		WES23-06 0-4'			036										
	12:50		WES23-07 0-4'			037										
	12:55		WES23-08 0-4'			038										
	13:00		WES23-09 0-4'			039										
	13:05		WES23-10 0-4'			040										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
02/01/23	16:45	J. Reta			2/2/23	900
2/2/23	1900			Via: courier	2/3/23	7:25

Remarks: Direct Bill to Devon
CC: Monica Peppin & Jacob Reta

Devon/Harvard.

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

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

February 14, 2023

Kent Stallings

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

RE: Todd 36 State 1 Pasture OrderNo.: 2302199

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 8 sample(s) on 2/4/2023 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 don't hesitate to contact HEAL for any additional information or clarifications.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2302199**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WES23-11 0-4'
Project: Todd 36 State 1 Pasture
Collection Date: 2/2/2023 10:30:00 AM
Lab ID: 2302199-001 **Matrix:** SOIL
Received Date: 2/4/2023 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	2/10/2023 9:41:55 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/10/2023 9:41:55 AM
Surr: DNOP	115	69-147		%Rec	1	2/10/2023 9:41:55 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JR**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/10/2023 1:38:00 PM
Surr: BFB	95.2	37.7-212		%Rec	1	2/10/2023 1:38:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JR**
Benzene	ND	0.024		mg/Kg	1	2/10/2023 1:38:00 PM
Toluene	ND	0.048		mg/Kg	1	2/10/2023 1:38:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/10/2023 1:38:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/10/2023 1:38:00 PM
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	2/10/2023 1:38:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	2/9/2023 2:28:40 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302199**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WES23-12 0-4'
Project: Todd 36 State 1 Pasture
Collection Date: 2/2/2023 10:35:00 AM
Lab ID: 2302199-002 **Matrix:** SOIL
Received Date: 2/4/2023 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	8.7		mg/Kg	1	2/10/2023 10:05:34 AM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	2/10/2023 10:05:34 AM
Surr: DNOP	100	69-147		%Rec	1	2/10/2023 10:05:34 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JR**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/10/2023 1:58:00 PM
Surr: BFB	96.5	37.7-212		%Rec	1	2/10/2023 1:58:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JR**
Benzene	ND	0.023		mg/Kg	1	2/10/2023 1:58:00 PM
Toluene	ND	0.046		mg/Kg	1	2/10/2023 1:58:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	2/10/2023 1:58:00 PM
Xylenes, Total	ND	0.092		mg/Kg	1	2/10/2023 1:58:00 PM
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	2/10/2023 1:58:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	200	60		mg/Kg	20	2/9/2023 2:41:01 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2302199**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WES23-13 0-4'
Project: Todd 36 State 1 Pasture
Collection Date: 2/2/2023 10:40:00 AM
Lab ID: 2302199-003 **Matrix:** SOIL
Received Date: 2/4/2023 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	2/10/2023 10:29:14 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/10/2023 10:29:14 AM
Surr: DNOP	114	69-147		%Rec	1	2/10/2023 10:29:14 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JR**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/10/2023 2:18:00 PM
Surr: BFB	95.5	37.7-212		%Rec	1	2/10/2023 2:18:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JR**
Benzene	ND	0.023		mg/Kg	1	2/10/2023 2:18:00 PM
Toluene	ND	0.046		mg/Kg	1	2/10/2023 2:18:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	2/10/2023 2:18:00 PM
Xylenes, Total	ND	0.092		mg/Kg	1	2/10/2023 2:18:00 PM
Surr: 4-Bromofluorobenzene	94.9	70-130		%Rec	1	2/10/2023 2:18:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	87	60		mg/Kg	20	2/9/2023 2:53:22 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2302199**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WES23-14 0-4'
Project: Todd 36 State 1 Pasture
Collection Date: 2/2/2023 10:45:00 PM
Lab ID: 2302199-004 **Matrix:** SOIL **Received Date:** 2/4/2023 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	9.0		mg/Kg	1	2/10/2023 10:52:58 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/10/2023 10:52:58 AM
Surr: DNOP	103	69-147		%Rec	1	2/10/2023 10:52:58 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JR**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/10/2023 2:38:00 PM
Surr: BFB	100	37.7-212		%Rec	1	2/10/2023 2:38:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JR**
Benzene	ND	0.025		mg/Kg	1	2/10/2023 2:38:00 PM
Toluene	ND	0.050		mg/Kg	1	2/10/2023 2:38:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/10/2023 2:38:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/10/2023 2:38:00 PM
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	2/10/2023 2:38:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	180	60		mg/Kg	20	2/9/2023 3:05:43 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302199**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WES23-15 0-4'
Project: Todd 36 State 1 Pasture
Collection Date: 2/2/2023 10:50:00 AM
Lab ID: 2302199-005 **Matrix:** SOIL
Received Date: 2/4/2023 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	2/10/2023 11:16:41 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/10/2023 11:16:41 AM
Surr: DNOP	108	69-147		%Rec	1	2/10/2023 11:16:41 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JR**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/10/2023 2:58:00 PM
Surr: BFB	98.7	37.7-212		%Rec	1	2/10/2023 2:58:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JR**
Benzene	ND	0.024		mg/Kg	1	2/10/2023 2:58:00 PM
Toluene	ND	0.048		mg/Kg	1	2/10/2023 2:58:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/10/2023 2:58:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	2/10/2023 2:58:00 PM
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	1	2/10/2023 2:58:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	120	60		mg/Kg	20	2/9/2023 3:42:45 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302199**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-190 4'
Project: Todd 36 State 1 Pasture
Collection Date: 2/2/2023 12:30:00 PM
Lab ID: 2302199-006 **Matrix:** SOIL
Received Date: 2/4/2023 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	2/10/2023 11:40:25 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/10/2023 11:40:25 AM
Surr: DNOP	134	69-147		%Rec	1	2/10/2023 11:40:25 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JR**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/10/2023 3:37:00 PM
Surr: BFB	94.5	37.7-212		%Rec	1	2/10/2023 3:37:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JR**
Benzene	ND	0.024		mg/Kg	1	2/10/2023 3:37:00 PM
Toluene	ND	0.048		mg/Kg	1	2/10/2023 3:37:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/10/2023 3:37:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	2/10/2023 3:37:00 PM
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	2/10/2023 3:37:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	300	60		mg/Kg	20	2/9/2023 3:55:05 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2302199**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-191 4'
Project: Todd 36 State 1 Pasture
Collection Date: 2/2/2023 12:40:00 PM
Lab ID: 2302199-007 **Matrix:** SOIL
Received Date: 2/4/2023 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	2/10/2023 12:04:06 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/10/2023 12:04:06 PM
Surr: DNOP	111	69-147		%Rec	1	2/10/2023 12:04:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JR**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/10/2023 3:57:00 PM
Surr: BFB	94.7	37.7-212		%Rec	1	2/10/2023 3:57:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JR**
Benzene	ND	0.024		mg/Kg	1	2/10/2023 3:57:00 PM
Toluene	ND	0.049		mg/Kg	1	2/10/2023 3:57:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/10/2023 3:57:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/10/2023 3:57:00 PM
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	2/10/2023 3:57:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	610	60		mg/Kg	20	2/9/2023 4:07:25 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2302199**
Date Reported: **2/14/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: BES23-192 4'
Project: Todd 36 State 1 Pasture
Collection Date: 2/2/2023 12:50:00 PM
Lab ID: 2302199-008 **Matrix:** SOIL **Received Date:** 2/4/2023 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	2/10/2023 12:27:41 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/10/2023 12:27:41 PM
Surr: DNOP	111	69-147		%Rec	1	2/10/2023 12:27:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JR**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/10/2023 4:17:00 PM
Surr: BFB	95.3	37.7-212		%Rec	1	2/10/2023 4:17:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JR**
Benzene	ND	0.024		mg/Kg	1	2/10/2023 4:17:00 PM
Toluene	ND	0.048		mg/Kg	1	2/10/2023 4:17:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/10/2023 4:17:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/10/2023 4:17:00 PM
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	2/10/2023 4:17:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	570	60		mg/Kg	20	2/9/2023 2:47:00 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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 Quanitative 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#: **2302199**

14-Feb-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **MB-73097** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **73097** RunNo: **94508**
Prep Date: **2/9/2023** Analysis Date: **2/9/2023** SeqNo: **3415573** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-73097** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **73097** RunNo: **94508**
Prep Date: **2/9/2023** Analysis Date: **2/9/2023** SeqNo: **3415574** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.0	90	110			

Sample ID: **MB-73095** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **73095** RunNo: **94530**
Prep Date: **2/9/2023** Analysis Date: **2/9/2023** SeqNo: **3416755** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-73095** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **73095** RunNo: **94530**
Prep Date: **2/9/2023** Analysis Date: **2/9/2023** SeqNo: **3416756** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.4	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 Quanitative 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#: **2302199**

14-Feb-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **MB-73042**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **73042**	RunNo: **94502**
Prep Date: **2/7/2023**	Analysis Date: **2/9/2023**	SeqNo: **3416464** 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		121	69	147			

Sample ID: **LCS-73042**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **73042**	RunNo: **94502**
Prep Date: **2/7/2023**	Analysis Date: **2/9/2023**	SeqNo: **3416465** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	64	10	50.00	0	128	61.9	130			
Surr: DNOP	6.9		5.000		138	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 Quanitative 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#: **2302199**

14-Feb-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **lcs-73036**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **73036**	RunNo: **94536**
Prep Date: **2/6/2023**	Analysis Date: **2/10/2023**	SeqNo: **3417078** 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	72.3	137			
Surr: BFB	1100		1000		112	37.7	212			

Sample ID: **mb-73036**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **73036**	RunNo: **94536**
Prep Date: **2/6/2023**	Analysis Date: **2/10/2023**	SeqNo: **3417079** 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	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2302199**

14-Feb-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 1 Pasture

Sample ID: **lcs-73036**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **73036**	RunNo: **94536**
Prep Date: **2/6/2023**	Analysis Date: **2/10/2023**	SeqNo: **3417089** 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	94.8	80	120			
Toluene	0.95	0.050	1.000	0	95.4	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.9	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.5	70	130			

Sample ID: **mb-73036**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **73036**	RunNo: **94536**
Prep Date: **2/6/2023**	Analysis Date: **2/10/2023**	SeqNo: **3417090** 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		95.1	70	130			

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 2302199

RcptNo: 1

Received By: Cheyenne Cason 2/4/2023 9:00:00 AM

Completed By: Cheyenne Cason 2/4/2023 9:10:35 AM

Reviewed By: JN 2/6/23

Chain of Custody

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

Log In

		Yes	No	NA
3.	Was an attempt made to cool the samples?	☑	☐	☐
4.	Were all samples received at a temperature of >0° C to 6.0°C	☑	☐	☐
5.	Sample(s) in proper container(s)?	☑	☐	
6.	Sufficient sample volume for indicated test(s)?	☑	☐	
7.	Are samples (except VOA and ONG) properly preserved?	☑	☐	
8.	Was preservative added to bottles?	☐	☑	☐
9.	Received at least 1 vial with headspace <1/4" for AQ VOA?	☐	☐	☑
10.	Were any sample containers received broken?	☐	☑	
11.	Does paperwork match bottle labels? (Note discrepancies on chain of custody)	☑	☐	
12.	Are matrices correctly identified on Chain of Custody?	☑	☐	
13.	Is it clear what analyses were requested?	☑	☐	
14.	Were all holding times able to be met? (If no, notify customer for authorization.)	☑	☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by CMC 2/4/23

Special Handling (if applicable)

15.	Was client notified of all discrepancies with this order?	☐	☐	☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

Client Information incomplete on COC - CMC 2/4/23

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good	Not Present	Morty		
2	0.6	Good	Not Present	Morty		

Received by OCD: 1/21/2026 6:39:41 AM

Released to Imaging: 3/18/2026 3:36:11 PM

Chain-of-Custody Record

Client: Devon (Vertex)

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:
Todd 36 State 1 "Pasture"

Project #:
21E-02816

Project Manager:
Kent Stallings

Sampler: J. Reta

On Ice: ☒ Yes ☐ No Mark

# of Coolers: 2 ~~0.9~~ 1.3-0=1.3

Cooler Temp(including CF): 0.6-0=0.6 (°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. 2302199	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)
02/02/23	10:30	Soil	WES23-11 0-4'	4oz Jar	Ice	001										
	10:35		WES23-12 0-4'			002										
	10:40		WES23-13 0-4'			003										
	10:45		WES23-14 0-4'			004										
	10:50		WES23-15 0-4'			005										
						~~00~~										
	12:30		BES23-190 4'			006										
	12:40		BES23-191 4'			007										
	12:50		BES23-192 4'			008										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
02/02/23	17:30	J. Reta			2/3/23	815
2/3/23	1900		Cmc	courier	2/4/23	0900

Remarks: Direct Bill to Devon
cc: Monica Peppin & Jacob Reta
Devon/Harvard

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

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

April 03, 2023

Kent Stallings

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

RE: Todd 36 State 001 Pasture OrderNo.: 2303C83

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 21 sample(s) on 3/25/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2303C83**
Date Reported: **4/3/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WS23-16 0-4'
Project: Todd 36 State 001 Pasture
Collection Date: 3/23/2023 7:25:00 AM
Lab ID: 2303C83-001 **Matrix:** SOIL **Received Date:** 3/25/2023 11:00:00 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	3/28/2023 3:27:05 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/28/2023 3:27:05 PM
Surr: DNOP	90.7	69-147		%Rec	1	3/28/2023 3:27:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/28/2023 11:04:15 AM
Surr: BFB	95.4	37.7-212		%Rec	1	3/28/2023 11:04:15 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	3/28/2023 11:04:15 AM
Toluene	ND	0.048		mg/Kg	1	3/28/2023 11:04:15 AM
Ethylbenzene	ND	0.048		mg/Kg	1	3/28/2023 11:04:15 AM
Xylenes, Total	ND	0.097		mg/Kg	1	3/28/2023 11:04:15 AM
Surr: 4-Bromofluorobenzene	86.6	70-130		%Rec	1	3/28/2023 11:04:15 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	3/28/2023 4:54:15 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2303C83**
Date Reported: **4/3/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WS23-17 0-4'
Project: Todd 36 State 001 Pasture
Collection Date: 3/23/2023 7:30:00 AM
Lab ID: 2303C83-002 **Matrix:** SOIL
Received Date: 3/25/2023 11:00:00 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	3/28/2023 3:37:52 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	3/28/2023 3:37:52 PM
Surr: DNOP	76.2	69-147		%Rec	1	3/28/2023 3:37:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/28/2023 11:27:55 AM
Surr: BFB	98.1	37.7-212		%Rec	1	3/28/2023 11:27:55 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	3/28/2023 11:27:55 AM
Toluene	ND	0.049		mg/Kg	1	3/28/2023 11:27:55 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/28/2023 11:27:55 AM
Xylenes, Total	ND	0.099		mg/Kg	1	3/28/2023 11:27:55 AM
Surr: 4-Bromofluorobenzene	89.4	70-130		%Rec	1	3/28/2023 11:27:55 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	61		mg/Kg	20	3/28/2023 5:06:36 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2303C83**
Date Reported: **4/3/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WS23-18 0-4'
Project: Todd 36 State 001 Pasture
Collection Date: 3/23/2023 7:35:00 AM
Lab ID: 2303C83-003 **Matrix:** SOIL
Received Date: 3/25/2023 11:00:00 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	3/28/2023 5:36:41 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/28/2023 5:36:41 PM
Surr: DNOP	85.4	69-147		%Rec	1	3/28/2023 5:36:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/28/2023 11:51:38 AM
Surr: BFB	98.2	37.7-212		%Rec	1	3/28/2023 11:51:38 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	3/28/2023 11:51:38 AM
Toluene	ND	0.049		mg/Kg	1	3/28/2023 11:51:38 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/28/2023 11:51:38 AM
Xylenes, Total	ND	0.099		mg/Kg	1	3/28/2023 11:51:38 AM
Surr: 4-Bromofluorobenzene	88.8	70-130		%Rec	1	3/28/2023 11:51:38 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	3/28/2023 5:18:57 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2303C83**
Date Reported: **4/3/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WS23-19 0-4'
Project: Todd 36 State 001 Pasture
Collection Date: 3/23/2023 7:40:00 AM
Lab ID: 2303C83-004 **Matrix:** SOIL **Received Date:** 3/25/2023 11:00:00 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	3/28/2023 5:47:19 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	3/28/2023 5:47:19 PM
Surr: DNOP	97.4	69-147		%Rec	1	3/28/2023 5:47:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/28/2023 12:15:26 PM
Surr: BFB	99.3	37.7-212		%Rec	1	3/28/2023 12:15:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	3/28/2023 12:15:26 PM
Toluene	ND	0.050		mg/Kg	1	3/28/2023 12:15:26 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/28/2023 12:15:26 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/28/2023 12:15:26 PM
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	3/28/2023 12:15:26 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	3/28/2023 5:31:18 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2303C83**
Date Reported: **4/3/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WS23-20 0-4'
Project: Todd 36 State 001 Pasture
Collection Date: 3/23/2023 7:45:00 AM
Lab ID: 2303C83-005 **Matrix:** SOIL
Received Date: 3/25/2023 11:00:00 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	3/28/2023 5:57:57 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/28/2023 5:57:57 PM
Surr: DNOP	109	69-147		%Rec	1	3/28/2023 5:57:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/28/2023 12:39:19 PM
Surr: BFB	105	37.7-212		%Rec	1	3/28/2023 12:39:19 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	3/28/2023 12:39:19 PM
Toluene	ND	0.048		mg/Kg	1	3/28/2023 12:39:19 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/28/2023 12:39:19 PM
Xylenes, Total	ND	0.096		mg/Kg	1	3/28/2023 12:39:19 PM
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	3/28/2023 12:39:19 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	77	60		mg/Kg	20	3/28/2023 6:08:21 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2303C83**
Date Reported: **4/3/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WS23-21 0-4'
Project: Todd 36 State 001 Pasture
Collection Date: 3/23/2023 7:50:00 AM
Lab ID: 2303C83-006 **Matrix:** SOIL
Received Date: 3/25/2023 11:00:00 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	3/28/2023 6:08:37 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/28/2023 6:08:37 PM
Surr: DNOP	102	69-147		%Rec	1	3/28/2023 6:08:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/28/2023 1:02:39 PM
Surr: BFB	99.1	37.7-212		%Rec	1	3/28/2023 1:02:39 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	3/28/2023 1:02:39 PM
Toluene	ND	0.049		mg/Kg	1	3/28/2023 1:02:39 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/28/2023 1:02:39 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/28/2023 1:02:39 PM
Surr: 4-Bromofluorobenzene	90.1	70-130		%Rec	1	3/28/2023 1:02:39 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	3/28/2023 6:20:41 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2303C83**
Date Reported: **4/3/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WS23-22 0-4'
Project: Todd 36 State 001 Pasture
Collection Date: 3/23/2023 7:55:00 AM
Lab ID: 2303C83-007 **Matrix:** SOIL **Received Date:** 3/25/2023 11:00:00 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	3/28/2023 6:40:27 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/28/2023 6:40:27 PM
Surr: DNOP	95.7	69-147		%Rec	1	3/28/2023 6:40:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/28/2023 1:26:06 PM
Surr: BFB	99.4	37.7-212		%Rec	1	3/28/2023 1:26:06 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	3/28/2023 1:26:06 PM
Toluene	ND	0.049		mg/Kg	1	3/28/2023 1:26:06 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/28/2023 1:26:06 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/28/2023 1:26:06 PM
Surr: 4-Bromofluorobenzene	90.1	70-130		%Rec	1	3/28/2023 1:26:06 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	3/28/2023 6:33:02 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2303C83**
Date Reported: **4/3/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WS23-23 0-4'
Project: Todd 36 State 001 Pasture
Collection Date: 3/23/2023 8:00:00 AM
Lab ID: 2303C83-008 **Matrix:** SOIL
Received Date: 3/25/2023 11:00:00 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	3/28/2023 6:51:07 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/28/2023 6:51:07 PM
Surr: DNOP	75.6	69-147		%Rec	1	3/28/2023 6:51:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/28/2023 1:49:31 PM
Surr: BFB	102	37.7-212		%Rec	1	3/28/2023 1:49:31 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	3/28/2023 1:49:31 PM
Toluene	ND	0.049		mg/Kg	1	3/28/2023 1:49:31 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/28/2023 1:49:31 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/28/2023 1:49:31 PM
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	1	3/28/2023 1:49:31 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	3/28/2023 6:45:24 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2303C83**
Date Reported: **4/3/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WS23-24 0-4'
Project: Todd 36 State 001 Pasture
Collection Date: 3/23/2023 8:05:00 AM
Lab ID: 2303C83-009 **Matrix:** SOIL **Received Date:** 3/25/2023 11:00:00 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	3/28/2023 7:01:48 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	3/28/2023 7:01:48 PM
Surr: DNOP	98.2	69-147		%Rec	1	3/28/2023 7:01:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/28/2023 2:36:52 PM
Surr: BFB	98.3	37.7-212		%Rec	1	3/28/2023 2:36:52 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	3/28/2023 2:36:52 PM
Toluene	ND	0.049		mg/Kg	1	3/28/2023 2:36:52 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/28/2023 2:36:52 PM
Xylenes, Total	ND	0.097		mg/Kg	1	3/28/2023 2:36:52 PM
Surr: 4-Bromofluorobenzene	89.6	70-130		%Rec	1	3/28/2023 2:36:52 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	3/28/2023 3:02:22 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2303C83**
Date Reported: **4/3/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WS23-25 0-4'
Project: Todd 36 State 001 Pasture
Collection Date: 3/23/2023 8:10:00 AM
Lab ID: 2303C83-010 **Matrix:** SOIL
Received Date: 3/25/2023 11:00:00 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	3/28/2023 7:12:29 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/28/2023 7:12:29 PM
Surr: DNOP	74.6	69-147		%Rec	1	3/28/2023 7:12:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/28/2023 3:00:30 PM
Surr: BFB	96.7	37.7-212		%Rec	1	3/28/2023 3:00:30 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.023		mg/Kg	1	3/28/2023 3:00:30 PM
Toluene	ND	0.047		mg/Kg	1	3/28/2023 3:00:30 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/28/2023 3:00:30 PM
Xylenes, Total	ND	0.093		mg/Kg	1	3/28/2023 3:00:30 PM
Surr: 4-Bromofluorobenzene	86.6	70-130		%Rec	1	3/28/2023 3:00:30 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	3/28/2023 3:39:36 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2303C83**
Date Reported: **4/3/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WS23-26 0-4'
Project: Todd 36 State 001 Pasture
Collection Date: 3/23/2023 8:10:00 AM
Lab ID: 2303C83-011 **Matrix:** SOIL
Received Date: 3/25/2023 11:00:00 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	3/28/2023 7:23:12 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/28/2023 7:23:12 PM
Surr: DNOP	91.5	69-147		%Rec	1	3/28/2023 7:23:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/28/2023 3:24:15 PM
Surr: BFB	102	37.7-212		%Rec	1	3/28/2023 3:24:15 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	3/28/2023 3:24:15 PM
Toluene	ND	0.049		mg/Kg	1	3/28/2023 3:24:15 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/28/2023 3:24:15 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/28/2023 3:24:15 PM
Surr: 4-Bromofluorobenzene	88.4	70-130		%Rec	1	3/28/2023 3:24:15 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	3/28/2023 3:52:01 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2303C83**
Date Reported: **4/3/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WS23-27 0-4'
Project: Todd 36 State 001 Pasture
Collection Date: 3/23/2023 8:15:00 AM
Lab ID: 2303C83-012 **Matrix:** SOIL
Received Date: 3/25/2023 11:00:00 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	3/28/2023 7:33:54 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/28/2023 7:33:54 PM
Surr: DNOP	81.0	69-147		%Rec	1	3/28/2023 7:33:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/28/2023 3:47:58 PM
Surr: BFB	98.2	37.7-212		%Rec	1	3/28/2023 3:47:58 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	3/28/2023 3:47:58 PM
Toluene	ND	0.050		mg/Kg	1	3/28/2023 3:47:58 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/28/2023 3:47:58 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/28/2023 3:47:58 PM
Surr: 4-Bromofluorobenzene	89.5	70-130		%Rec	1	3/28/2023 3:47:58 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	61		mg/Kg	20	3/28/2023 4:04:25 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2303C83**
Date Reported: **4/3/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WS23-28 0-4'
Project: Todd 36 State 001 Pasture
Collection Date: 3/23/2023 8:20:00 AM
Lab ID: 2303C83-013 **Matrix:** SOIL
Received Date: 3/25/2023 11:00:00 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	3/28/2023 7:55:19 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/28/2023 7:55:19 PM
Surr: DNOP	72.7	69-147		%Rec	1	3/28/2023 7:55:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/28/2023 4:11:28 PM
Surr: BFB	99.9	37.7-212		%Rec	1	3/28/2023 4:11:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	3/28/2023 4:11:28 PM
Toluene	ND	0.049		mg/Kg	1	3/28/2023 4:11:28 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/28/2023 4:11:28 PM
Xylenes, Total	ND	0.097		mg/Kg	1	3/28/2023 4:11:28 PM
Surr: 4-Bromofluorobenzene	90.1	70-130		%Rec	1	3/28/2023 4:11:28 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	68	60		mg/Kg	20	3/28/2023 4:16:50 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2303C83**
Date Reported: **4/3/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WS23-29 0-4'
Project: Todd 36 State 001 Pasture
Collection Date: 3/23/2023 8:25:00 AM
Lab ID: 2303C83-014 **Matrix:** SOIL
Received Date: 3/25/2023 11:00:00 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	3/28/2023 8:06:10 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/28/2023 8:06:10 PM
Surr: DNOP	82.4	69-147		%Rec	1	3/28/2023 8:06:10 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/28/2023 4:35:07 PM
Surr: BFB	98.2	37.7-212		%Rec	1	3/28/2023 4:35:07 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	3/28/2023 4:35:07 PM
Toluene	ND	0.050		mg/Kg	1	3/28/2023 4:35:07 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/28/2023 4:35:07 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/28/2023 4:35:07 PM
Surr: 4-Bromofluorobenzene	88.1	70-130		%Rec	1	3/28/2023 4:35:07 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	140	60		mg/Kg	20	3/28/2023 4:54:04 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2303C83**
Date Reported: **4/3/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WS23-30 0-4'
Project: Todd 36 State 001 Pasture
Collection Date: 3/23/2023 8:30:00 AM
Lab ID: 2303C83-015 **Matrix:** SOIL **Received Date:** 3/25/2023 11:00:00 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	3/28/2023 8:16:59 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/28/2023 8:16:59 PM
Surr: DNOP	113	69-147		%Rec	1	3/28/2023 8:16:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/28/2023 4:58:51 PM
Surr: BFB	100	37.7-212		%Rec	1	3/28/2023 4:58:51 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	3/28/2023 4:58:51 PM
Toluene	ND	0.050		mg/Kg	1	3/28/2023 4:58:51 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/28/2023 4:58:51 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/28/2023 4:58:51 PM
Surr: 4-Bromofluorobenzene	88.9	70-130		%Rec	1	3/28/2023 4:58:51 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	3/28/2023 5:06:29 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2303C83**
Date Reported: **4/3/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WS23-31 0-4'
Project: Todd 36 State 001 Pasture
Collection Date: 3/23/2023 8:35:00 AM
Lab ID: 2303C83-016 **Matrix:** SOIL
Received Date: 3/25/2023 11:00:00 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	3/28/2023 8:27:47 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/28/2023 8:27:47 PM
Surr: DNOP	78.1	69-147		%Rec	1	3/28/2023 8:27:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/28/2023 5:22:49 PM
Surr: BFB	102	37.7-212		%Rec	1	3/28/2023 5:22:49 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	3/28/2023 5:22:49 PM
Toluene	ND	0.049		mg/Kg	1	3/28/2023 5:22:49 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/28/2023 5:22:49 PM
Xylenes, Total	ND	0.097		mg/Kg	1	3/28/2023 5:22:49 PM
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	3/28/2023 5:22:49 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	3/28/2023 5:18:54 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2303C83**
Date Reported: **4/3/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WS23-32 0-4'
Project: Todd 36 State 001 Pasture
Collection Date: 3/23/2023 8:40:00 AM
Lab ID: 2303C83-017 **Matrix:** SOIL
Received Date: 3/25/2023 11:00:00 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	3/28/2023 8:38:34 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/28/2023 8:38:34 PM
Surr: DNOP	76.8	69-147		%Rec	1	3/28/2023 8:38:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/28/2023 5:46:49 PM
Surr: BFB	104	37.7-212		%Rec	1	3/28/2023 5:46:49 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	3/28/2023 5:46:49 PM
Toluene	ND	0.049		mg/Kg	1	3/28/2023 5:46:49 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/28/2023 5:46:49 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/28/2023 5:46:49 PM
Surr: 4-Bromofluorobenzene	92.2	70-130		%Rec	1	3/28/2023 5:46:49 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	300	60		mg/Kg	20	3/28/2023 5:31:19 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2303C83**
Date Reported: **4/3/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WS23-33 0-4'
Project: Todd 36 State 001 Pasture
Collection Date: 3/23/2023 8:50:00 AM
Lab ID: 2303C83-018 **Matrix:** SOIL
Received Date: 3/25/2023 11:00:00 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	3/28/2023 8:49:19 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/28/2023 8:49:19 PM
Surr: DNOP	74.6	69-147		%Rec	1	3/28/2023 8:49:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/28/2023 6:10:53 PM
Surr: BFB	105	37.7-212		%Rec	1	3/28/2023 6:10:53 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.023		mg/Kg	1	3/28/2023 6:10:53 PM
Toluene	ND	0.047		mg/Kg	1	3/28/2023 6:10:53 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/28/2023 6:10:53 PM
Xylenes, Total	ND	0.094		mg/Kg	1	3/28/2023 6:10:53 PM
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	3/28/2023 6:10:53 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	3/28/2023 5:43:44 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2303C83**
Date Reported: **4/3/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WS23-34 0-4'
Project: Todd 36 State 001 Pasture
Collection Date: 3/23/2023 8:55:00 AM
Lab ID: 2303C83-019 **Matrix:** SOIL
Received Date: 3/25/2023 11:00:00 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	3/29/2023 12:28:33 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/29/2023 12:28:33 AM
Surr: DNOP	91.5	69-147		%Rec	1	3/29/2023 12:28:33 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/28/2023 11:23:00 AM
Surr: BFB	99.0	37.7-212		%Rec	1	3/28/2023 11:23:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	3/28/2023 11:23:00 AM
Toluene	ND	0.048		mg/Kg	1	3/28/2023 11:23:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	3/28/2023 11:23:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	3/28/2023 11:23:00 AM
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	1	3/28/2023 11:23:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	3/28/2023 5:56:08 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2303C83**
Date Reported: **4/3/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WS23-35 0-4'
Project: Todd 36 State 001 Pasture
Collection Date: 3/23/2023 9:00:00 AM
Lab ID: 2303C83-020 **Matrix:** SOIL
Received Date: 3/25/2023 11:00:00 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	3/29/2023 12:49:07 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/29/2023 12:49:07 AM
Surr: DNOP	91.1	69-147		%Rec	1	3/29/2023 12:49:07 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/28/2023 12:28:00 PM
Surr: BFB	94.0	37.7-212		%Rec	1	3/28/2023 12:28:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	3/28/2023 12:28:00 PM
Toluene	ND	0.050		mg/Kg	1	3/28/2023 12:28:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/28/2023 12:28:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/28/2023 12:28:00 PM
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	3/28/2023 12:28:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	82	60		mg/Kg	20	3/28/2023 6:08:34 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2303C83**
Date Reported: **4/3/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.
Client Sample ID: WS23-36 0-4'
Project: Todd 36 State 001 Pasture
Collection Date: 3/23/2023 9:05:00 AM
Lab ID: 2303C83-021 **Matrix:** SOIL
Received Date: 3/25/2023 11:00:00 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	3/29/2023 12:59:28 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/29/2023 12:59:28 AM
Surr: DNOP	92.4	69-147		%Rec	1	3/29/2023 12:59:28 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/28/2023 1:33:00 PM
Surr: BFB	92.1	37.7-212		%Rec	1	3/28/2023 1:33:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	3/28/2023 1:33:00 PM
Toluene	ND	0.048		mg/Kg	1	3/28/2023 1:33:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/28/2023 1:33:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	3/28/2023 1:33:00 PM
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	3/28/2023 1:33:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	3/28/2023 6:20:59 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 Quanitative 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#: **2303C83**

03-Apr-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 001 Pasture

Sample ID: **MB-73982** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **73982** RunNo: **95636**
Prep Date: **3/28/2023** Analysis Date: **3/28/2023** SeqNo: **3460935** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-73982** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **73982** RunNo: **95636**
Prep Date: **3/28/2023** Analysis Date: **3/28/2023** SeqNo: **3460936** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.0	90	110			

Sample ID: **MB-73972** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **73972** RunNo: **95609**
Prep Date: **3/28/2023** Analysis Date: **3/28/2023** SeqNo: **3461325** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-73972** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **73972** RunNo: **95609**
Prep Date: **3/28/2023** Analysis Date: **3/28/2023** SeqNo: **3461326** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.1	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 Quanitative 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#: **2303C83**

03-Apr-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 001 Pasture

Sample ID: **MB-73963**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **73963**	RunNo: **95601**
Prep Date: **3/27/2023**	Analysis Date: **3/28/2023**	SeqNo: **3459989** 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	8.2		10.00		82.5	69	147			

Sample ID: **LCS-73963**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **73963**	RunNo: **95601**
Prep Date: **3/27/2023**	Analysis Date: **3/28/2023**	SeqNo: **3459990** 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	4.2		5.000		84.8	69	147			

Sample ID: **MB-73977**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **73977**	RunNo: **95601**
Prep Date: **3/28/2023**	Analysis Date: **3/28/2023**	SeqNo: **3460487** 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		83.2	69	147			

Sample ID: **LCS-73977**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **73977**	RunNo: **95601**
Prep Date: **3/28/2023**	Analysis Date: **3/28/2023**	SeqNo: **3460488** 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	89.9	61.9	130			
Surr: DNOP	4.6		5.000		92.0	69	147			

Sample ID: **MB-73997**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **73997**	RunNo: **95646**
Prep Date: **3/29/2023**	Analysis Date: **3/29/2023**	SeqNo: **3461213** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.8		10.00		87.7	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303C83**

03-Apr-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 001 Pasture

Sample ID: **LCS-73997**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **73997**	RunNo: **95646**
Prep Date: **3/29/2023**	Analysis Date: **3/29/2023**	SeqNo: **3461214** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		90.5	69	147			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303C83**

03-Apr-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 001 Pasture

Sample ID: **lcs-73946**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **73946**	RunNo: **95599**
Prep Date: **3/27/2023**	Analysis Date: **3/28/2023**	SeqNo: **3459412** 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	91.5	70	130			
Surr: BFB	1900		1000		186	37.7	212			

Sample ID: **mb-73946**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **73946**	RunNo: **95599**
Prep Date: **3/27/2023**	Analysis Date: **3/28/2023**	SeqNo: **3459413** 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		98.1	37.7	212			

Sample ID: **LCS-73962**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **73962**	RunNo: **95638**
Prep Date: **3/27/2023**	Analysis Date: **3/28/2023**	SeqNo: **3461004** 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	85.4	70	130			
Surr: BFB	2000		1000		198	37.7	212			

Sample ID: **MB-73962**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **73962**	RunNo: **95638**
Prep Date: **3/27/2023**	Analysis Date: **3/28/2023**	SeqNo: **3461005** 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	900		1000		90.3	37.7	212			

Sample ID: **2303C83-019ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **WS23-34 0-4'**	Batch ID: **73962**	RunNo: **95638**
Prep Date: **3/27/2023**	Analysis Date: **3/28/2023**	SeqNo: **3461007** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8	24.20	0	94.0	70	130			
Surr: BFB	2000		968.1		208	37.7	212			

Sample ID: **2303C83-019amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **WS23-34 0-4'**	Batch ID: **73962**	RunNo: **95638**
Prep Date: **3/27/2023**	Analysis Date: **3/28/2023**	SeqNo: **3461008** 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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303C83**

03-Apr-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 001 Pasture

Sample ID: **2303C83-019amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **WS23-34 0-4'**	Batch ID: **73962**	RunNo: **95638**
Prep Date: **3/27/2023**	Analysis Date: **3/28/2023**	SeqNo: **3461008** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	23.95	0	91.4	70	130	3.95	20	
Surr: BFB	2100		957.9		216	37.7	212	0	0	S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
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#: **2303C83**

03-Apr-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 001 Pasture

Sample ID: **LCS-73946**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **73946**	RunNo: **95599**
Prep Date: **3/27/2023**	Analysis Date: **3/28/2023**	SeqNo: **3459418** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.3	80	120			
Toluene	0.89	0.050	1.000	0	89.1	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.2	80	120			
Xylenes, Total	2.6	0.10	3.000	0	88.2	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		89.4	70	130			

Sample ID: **mb-73946**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **73946**	RunNo: **95599**
Prep Date: **3/27/2023**	Analysis Date: **3/28/2023**	SeqNo: **3459419** 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		89.1	70	130			

Sample ID: **LCS-73962**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **73962**	RunNo: **95638**
Prep Date: **3/27/2023**	Analysis Date: **3/28/2023**	SeqNo: **3461097** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.5	80	120			
Toluene	0.89	0.050	1.000	0	89.2	80	120			
Ethylbenzene	0.88	0.050	1.000	0	87.8	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.1	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		90.4	70	130			

Sample ID: **MB-73962**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **73962**	RunNo: **95638**
Prep Date: **3/27/2023**	Analysis Date: **3/28/2023**	SeqNo: **3461098** 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	0.90		1.000		90.2	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303C83**

03-Apr-23

Client: Vertex Resources Services, Inc.

Project: Todd 36 State 001 Pasture

Sample ID: **2303C83-020ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **WS23-35 0-4'**	Batch ID: **73962**	RunNo: **95638**
Prep Date: **3/27/2023**	Analysis Date: **3/28/2023**	SeqNo: **3461101** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9930	0	102	68.8	120			
Toluene	1.0	0.050	0.9930	0	102	73.6	124			
Ethylbenzene	1.0	0.050	0.9930	0	102	72.7	129			
Xylenes, Total	3.0	0.099	2.979	0	100	75.7	126			
Surr: 4-Bromofluorobenzene	0.92		0.9930		92.8	70	130			

Sample ID: **2303C83-020amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **WS23-35 0-4'**	Batch ID: **73962**	RunNo: **95638**
Prep Date: **3/27/2023**	Analysis Date: **3/28/2023**	SeqNo: **3461102** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	0.9960	0	97.7	68.8	120	3.80	20	
Toluene	0.98	0.050	0.9960	0	98.7	73.6	124	3.34	20	
Ethylbenzene	0.98	0.050	0.9960	0	98.1	72.7	129	3.16	20	
Xylenes, Total	2.9	0.10	2.988	0	96.8	75.7	126	3.43	20	
Surr: 4-Bromofluorobenzene	0.93		0.9960		93.2	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 2303C83

RcptNo: 1

Received By: Tracy Casarrubias 3/25/2023 11:00:00 AM

Completed By: Tracy Casarrubias 3/25/2023 11:35:17 AM

Reviewed By: JN 3/27/23

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° 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 preserved 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: TME 3/25/23

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	4.3	Good	Yes	Yogi		

Received by OCD: 1/21/2026 6:39:41 AM

Released to Imaging: 3/18/2026 3:36:11 PM

Chain-of-Custody Record

Client: **Vertex**

(direct 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-hr

Project Name: **Todd 36 State #001 Pasture**

Project #: **22E-02816-22**

Project Manager: Kent Stallings

kstallings@vertex.ca

Sampler: L. Pullman

On Ice: ☑ Yes ☐ No 4.0g

# of Coolers: 1

Cooler Temp(including CF): 4.4 - 0.1 = 4.3 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2303C83	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)
03/23/23	7:25	Soil	WS23-16 0-4'	1, 4oz jar		001	X	X					X			
03/23/23	7:30	Soil	WS23-17 0-4'	1, 4oz jar		002	X	X					X			
03/23/23	7:35	Soil	WS23-18 0-4'	1, 4oz jar		003	X	X					X			
03/23/23	7:40	Soil	WS23-19 0-4'	1, 4oz jar		004	X	X					X			
03/23/23	7:45	Soil	WS23-20 0-4'	1, 4oz jar		005	X	X					X			
03/23/23	7:50	Soil	WS23-21 0-4'	1, 4oz jar		006	X	X					X			
03/23/23	7:55	Soil	WS23-22 0-4'	1, 4oz jar		007	X	X					X			
03/23/23	8:00	Soil	WS23-23 0-4'	1, 4oz jar		008	X	X					X			
03/23/23	8:05	Soil	WS23-24 0-4'	1, 4oz jar		009	X	X					X			
03/23/23	8:10	Soil	WS23-25 0-4'	1, 4oz jar		010	X	X					X			
03/23/23	8:10	Soil	WS23-26 0-4'	1, 4oz jar		011	X	X					X			
03/23/23	8:15	Soil	WS23-27 0-4'	1, 4oz jar		012	X	X					X			

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
3-24-23	0700				3/24/24	700
3/24/24	1900			courier	3/25/23	11:00

Remarks:
Direct bill to Devon, Dale Woodall
cc. kstallings@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.

Chain-of-Custody Record

Client: **Vertex**

(direct 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-hr

Project Name:

Todd 36 State #001 Pasture

Project #:

22E-02816-22

Project Manager:

Kent Stallings

kstallings@vertex.ca

Sampler: L. Pullman

On Ice: ☒ Yes ☐ No 4oqi

# of Coolers: 1

Cooler Temp(including CF): 4.4 - 0.1 = 4.3 °

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2303C83	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)
03/23/23	8:20	Soil	WS23-28 0-4'	1, 4oz jar		013	X	X					X			
03/23/23	8:25	Soil	WS23-29 0-4'	1, 4oz jar		014	X	X					X			
03/23/23	8:30	Soil	WS23-30 0-4'	1, 4oz jar		015	X	X					X			
03/23/23	8:35	Soil	WS23-31 0-4'	1, 4oz jar		016	X	X					X			
03/23/23	8:40	Soil	WS23-32 0-4'	1, 4oz jar		017	X	X					X			
03/23/23	8:50	Soil	WS23-33 0-4'	1, 4oz jar		018	X	X					X			
03/23/23	8:55	Soil	WS23-34 0-4'	1, 4oz jar		019	X	X					X			
03/23/23	9:00	Soil	WS23-35 0-4'	1, 4oz jar		020	X	X					X			
03/23/23	9:05	Soil	WS23-36 0-4'	1, 4oz jar		021	X	X					X			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
3-24-23	0700				3/24/23	700
3/24/23	1900				3/25/23	1100

Remarks:

Direct bill to Devon, Dale Woodall

cc. kstallings@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.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/9/2025 3:38:31 PM

JOB DESCRIPTION

Todd 36 State 1

JOB NUMBER

885-24286-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Released to Imaging: 5/18/2026 3:36:11 PM

Eurofins Albuquerque

Job Notes

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

Authorization

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5/9/2025 3:38:31 PM

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

Client: Vertex
Project/Site: Todd 36 State 1

Laboratory Job ID: 885-24286-1

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Released to Imaging: 3/18/2026 3:36:11 PM

Definitions/Glossary

Client: Vertex Job ID: 885-24286-1
Project/Site: Todd 36 State 1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Vertex
Project: Todd 36 State 1

Job ID: 885-24286-1

Job ID: 885-24286-1 Eurofins Albuquerque

Job Narrative
885-24286-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 5/6/2025 7:40 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C.

Receipt Exceptions
The Field Sampler was not listed on the Chain of Custody.

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

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

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

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

Client Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-24286-1

Client Sample ID: Backfill

Date Collected: 05/03/25 10:00
Date Received: 05/06/25 07:40

Lab Sample ID: 885-24286-1

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/07/25 12:22	05/09/25 07:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*05/07/25 12:22*	*05/09/25 07:27*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/07/25 12:22	05/09/25 07:27	1
Ethylbenzene	ND		0.050		mg/Kg		05/07/25 12:22	05/09/25 07:27	1
Toluene	ND		0.050		mg/Kg		05/07/25 12:22	05/09/25 07:27	1
Xylenes, Total	ND		0.099		mg/Kg		05/07/25 12:22	05/09/25 07:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*48 - 145*	*05/07/25 12:22*	*05/09/25 07:27*	*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		9.4		mg/Kg		05/08/25 09:17	05/09/25 01:45	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		05/08/25 09:17	05/09/25 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*106*		*62 - 134*	*05/08/25 09:17*	*05/09/25 01:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/07/25 13:57	05/07/25 21:54	20

QC Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-24286-1

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

Lab Sample ID: MB 885-25670/1-A
Matrix: Solid
Analysis Batch: 25791

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 25670

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/07/25 12:22	05/08/25 23:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*35 - 166*	*05/07/25 12:22*	*05/08/25 23:57*	*1*

Lab Sample ID: LCS 885-25670/2-A
Matrix: Solid
Analysis Batch: 25791

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 25670

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	27.3		mg/Kg		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*211*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-25670/1-A
Matrix: Solid
Analysis Batch: 25790

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 25670

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/07/25 12:22	05/08/25 23:57	1
Ethylbenzene	ND		0.050		mg/Kg		05/07/25 12:22	05/08/25 23:57	1
Toluene	ND		0.050		mg/Kg		05/07/25 12:22	05/08/25 23:57	1
Xylenes, Total	ND		0.10		mg/Kg		05/07/25 12:22	05/08/25 23:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*48 - 145*	*05/07/25 12:22*	*05/08/25 23:57*	*1*

Lab Sample ID: LCS 885-25670/3-A
Matrix: Solid
Analysis Batch: 25790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 25670

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	1.03		mg/Kg		103	70 - 130		
Ethylbenzene			1.00	1.00		mg/Kg		100	70 - 130		
m-Xylene & p-Xylene			2.00	2.14		mg/Kg		107	70 - 130		
o-Xylene			1.00	1.01		mg/Kg		101	70 - 130		
Toluene			1.00	1.00		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*

QC Sample Results

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-24286-1

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

Lab Sample ID: MB 885-25720/1-A
Matrix: Solid
Analysis Batch: 25716

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 25720

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		05/08/25 09:17	05/08/25 11:17	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		05/08/25 09:17	05/08/25 11:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*107*		*62 - 134*	*05/08/25 09:17*	*05/08/25 11:17*	*1*

Lab Sample ID: LCS 885-25720/2-A
Matrix: Solid
Analysis Batch: 25716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 25720

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	43.9		mg/Kg		88	51 - 148		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*107*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-25679/1-A
Matrix: Solid
Analysis Batch: 25622

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 25679

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5		mg/Kg		05/07/25 13:57	05/07/25 14:25	1

Lab Sample ID: LCS 885-25679/2-A
Matrix: Solid
Analysis Batch: 25622

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 25679

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			15.0	14.5		mg/Kg		97	90 - 110		

QC Association Summary

Client: Vertex
Project/Site: Todd 36 State 1

Job ID: 885-24286-1

GC VOA

Prep Batch: 25670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24286-1	Backfill	Total/NA	Solid	5030C	
MB 885-25670/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-25670/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-25670/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 25790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24286-1	Backfill	Total/NA	Solid	8021B	25670
MB 885-25670/1-A	Method Blank	Total/NA	Solid	8021B	25670
LCS 885-25670/3-A	Lab Control Sample	Total/NA	Solid	8021B	25670

Analysis Batch: 25791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24286-1	Backfill	Total/NA	Solid	8015M/D	25670
MB 885-25670/1-A	Method Blank	Total/NA	Solid	8015M/D	25670
LCS 885-25670/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	25670

GC Semi VOA

Analysis Batch: 25716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24286-1	Backfill	Total/NA	Solid	8015M/D	25720
MB 885-25720/1-A	Method Blank	Total/NA	Solid	8015M/D	25720
LCS 885-25720/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	25720

Prep Batch: 25720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24286-1	Backfill	Total/NA	Solid	SHAKE	
MB 885-25720/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-25720/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

HPLC/IC

Analysis Batch: 25622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24286-1	Backfill	Total/NA	Solid	300.0	25679
MB 885-25679/1-A	Method Blank	Total/NA	Solid	300.0	25679
LCS 885-25679/2-A	Lab Control Sample	Total/NA	Solid	300.0	25679

Prep Batch: 25679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24286-1	Backfill	Total/NA	Solid	300_Prep	
MB 885-25679/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-25679/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Lab Chronicle

Client: Vertex
Job ID: 885-24286-1
Project/Site: Todd 36 State 1

Client Sample ID: Backfill
Lab Sample ID: 885-24286-1

Date Collected: 05/03/25 10:00
Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25670	JP	EET ALB	05/07/25 12:22
Total/NA	Analysis	8015M/D		1	25791	JP	EET ALB	05/09/25 07:27
Total/NA	Prep	5030C			25670	JP	EET ALB	05/07/25 12:22
Total/NA	Analysis	8021B		1	25790	JP	EET ALB	05/09/25 07:27
Total/NA	Prep	SHAKE			25720	MI	EET ALB	05/08/25 09:17
Total/NA	Analysis	8015M/D		1	25716	MI	EET ALB	05/09/25 01:45
Total/NA	Prep	300_Prep			25679	RC	EET ALB	05/07/25 13:57
Total/NA	Analysis	300.0		20	25622	RC	EET ALB	05/07/25 21:54

Laboratory References:

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

Accreditation/Certification Summary

Client: Vertex Job ID: 885-24286-1
Project/Site: Todd 36 State 1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics (GRO)-C6-C10
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total

Oregon	NELAP	NM100001	02-26-26

Released to Imaging: 3/18/2026 3:36:11 PM
Received by OCD: 1/21/2026 6:39:41 AM

Chain-of-Custody Record

Client: Vertex (bill to 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

Project Name: Todd 36 State #1

Project #: 25A-01349

Project Manager: Sally Carttar
SCarttar@vertexresource.com

Sampler:

On Ice: ☐ Yes ☐ No

# of Coolers: 1 mo, 10

Cooler Temp(including CF): 2.6+0.2=2.8 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

885-24286 COC

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Analysis Request
5/3	10:00	Soil	Back Fill		ice		X	X					X				

Relinquished by	Date	Time	Received by	Via	Date	Time
			CCummings		5/5/25	1315
C	5/5/25	1900		courier	5/6/25	7:40

Remarks: bill to Devon
ATTN: Jinnie.raley@dvn.com
CC: SCarttar@vertex.ca, KStallings@vertex.ca
Katrina.Taylor@vertex.ca

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories This serves as notice of this possibility Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Vertex Job Number: 885-24286-1

Login Number: 24286 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

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

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 454121

QUESTIONS

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 454121
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1534452923**
Incident Name	**NAB1534452923 TODD 36 STATE #001 @ 30-015-20341**
Incident Type	**Produced Water Release**
Incident Status	**Reclamation Report Received**
Incident Well	**[30-015-20341] TODD 36 STATE #001**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	TODD 36 STATE #001
Date Release Discovered	12/03/2015
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 | Dump Line | Produced Water | Released: 1,160 BBL | Recovered: 30 BBL | Lost: 1,130 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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

QUESTIONS (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 454121
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	Release occurred outside containment

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Roni Kidd Title: Business Manager Email: rkidd@buckhornproduction.com Date: 01/20/2026

Sante Fe Main Office
Phone: (505) 476-3441

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Phone: (505) 629-6116

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

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

QUESTIONS (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 454121
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	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	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (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
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.		
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)	18000
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	13
GRO+DRO	(EPA SW-846 Method 8015M)	13
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.1
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence		10/12/2022
On what date will (or did) the final sampling or liner inspection occur		03/21/2023
On what date will (or was) the remediation complete(d)		03/23/2023
What is the estimated surface area (in square feet) that will be reclaimed		88303
What is the estimated volume (in cubic yards) that will be reclaimed		13082
What is the estimated surface area (in square feet) that will be remediated		88303
What is the estimated volume (in cubic yards) that will be remediated		13082
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.		

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

QUESTIONS (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 454121
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Roni Kidd Title: Business Manager Email: rkidd@buckhornproduction.com Date: 01/20/2026
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 (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 454121
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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 (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 454121
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**454246**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**03/21/2023**
What was the (estimated) number of samples that were to be gathered	**250**
What was the sampling surface area in square feet	**88303**

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	88303
What was the total volume (cubic yards) remediated	13082
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	88303
What was the total volume (in cubic yards) reclaimed	13082
Summarize any additional remediation activities not included by answers (above)	As described in attached report.

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Roni Kidd Title: Business Manager Email: rkidd@buckhornproduction.com Date: 01/20/2026

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QUESTIONS (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 454121
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	88303
What was the total volume of replacement material (in cubic yards) for this site	13082
Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	05/24/2023
Summarize any additional reclamation activities not included by answers (above)	As detailed in attached report.
The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Roni Kidd Title: Business Manager Email: rkidd@buckhornproduction.com Date: 01/20/2026

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QUESTIONS (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 454121
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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CONDITIONS

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 454121
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	The reclamation report has been approved pursuant to 19.15.29.13 E. NMAC. The acceptance of this 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; or if the location fails to revegetate properly. In addition, the OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	3/18/2026
scott.rodgers	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	3/18/2026