



September 27, 2022

Vertex Project #: 22E-00924

**Spill Closure Report:** Falcon Compressor Station  
Section 25, Township 24 South, Range 31 East  
County: Eddy  
Incident Reports: nAPP2204725407 and nAPP2206735499

**Prepared For:** **Devon Energy Production Company**  
6488 Seven Rivers Highway  
Artesia, New Mexico 88210

**New Mexico Oil Conservation Division – District 2 – Eddy**  
811 South 1<sup>st</sup> Street  
Artesia, New Mexico 88210

Devon Energy Production Company (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct a Spill Assessment and Remediation for two releases consisting of lube oil caused by the lube oil supply tank leaking, and triethylene glycol (TEG) caused by a leak on the PRV at Falcon Compressor Station (hereafter referred to as “Falcon”), incidents nAPP2204725407 and nAPP2206735499. The C-141 Release Notifications were provided to the New Mexico Oil Conservation Division (NMOCD) and Bureau of Land Management (BLM). This letter provides a description of the spill assessment and remediation, and includes a request for Spill Closure. The spill area is located at N 32.185748, W -103.736725.

## Background

The site is located approximately 19 miles east of Malaga, New Mexico (Google Inc., 2022). The legal location for the site is Section 25, Township 24 South and Range 31 East in Eddy County, New Mexico. The spill area is located on BLM property. An aerial photograph and site schematic are presented on Figures 1 and 2 (Attachment 1).

The *Geological Map of New Mexico* indicates the surface geology at Falcon is comprised of Qep – eolian and piedmont deposits that include eolian sands interlaid with piedmont-slope deposits (New Mexico Bureau of Geology and Mineral Resources, 2022). The Natural Resources Conservation Service *Web Soil Survey* characterizes the soils at the site as Pajarito loamy fine sand and Berino complex fine sand and sandy clay loam, characterized by deep, fine soils. It tends to be well-drained with very low to low runoff and moderate available moisture levels in the soil profile (United States Department of Agriculture, Natural Resources Conservation Service, 2022). There is low potential for karst geology to be present near Falcon, though some erosional karst is possible (United States Department of the Interior, Bureau of Land Management, 2018).

The surrounding landscape is associated with dunes, plains, interdunes, and fan piedmonts typical of elevations of 2,000 to 5,700 feet above sea level. The climate is semi-arid, with average annual precipitation ranging between 5 and 15 inches. Historically, the plant community was dominated by grasses, which stabilized the potentially erosive sandy

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soils; however, more recent conditions, resulting from fire suppression and extensive grazing, show increased woody plant abundance. The dominant grass species are black grama, dropseeds and bluestems, with scattered shinnery oak and sand sage. Litter and, to a lesser extent, bare ground are a significant proportion of ground cover while grasses compose the remainder (United States Department of Agriculture, Natural Resources Conservation Service, 2022). Limited to no vegetation is allowed to grow on the compacted facility pad.

There is no surface water located at Falcon. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 New Mexico Administrative Code (NMAC; New Mexico Oil Conservation Division, 2018), is an intermittent stream located approximately 5.3 miles northwest of the site. An intermittently flooded freshwater pond is located approximately 10 miles north of the release site (United States Fish and Wildlife Service, 2022). At Falcon, there are no continuously flowing watercourses, lakebeds, sinkholes, playa lakes, or other critical water or community features nearby as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

## Incident Description

### nAPP2204725407

The first release occurred on February 14, 2022, when a third-party contractor was adding lube oil to a compressor and a leak occurred on the lube oil supply tank. The spill was reported on February 16, 2022, and involved the release of approximately 480 gallons of lube oil on the engineered pad near the compressor. Approximately 325 gallons of free fluid was removed during initial spill clean-up.

### nAPP2206735499

The second release occurred on March 5, 2022, due to a leak found on the PRV. The spill was reported on March 8, 2022, and involved the release of approximately 250 gallons of TEG onto the engineered pad. Approximately 42 gallons of free fluid was removed during initial spill clean-up.

An initial site inspection of the release areas was completed on April 17, 2022, for both releases, which identified the area of the spill specified in the initial C-141 Reports and estimated the approximate square footage of the release areas. The impacted area for the lube oil release was determined to be approximately 57 feet long and 20 feet wide at an estimated 724 square feet, and the area for the TEG release was determined to be approximately 79 feet long and 62 feet wide at an estimated 1,897 square feet. Initial characterization field screening and laboratory results are included in Tables 2 and 3, respectively (Attachment 2). The Daily Field Report (DFR) associated with the site inspection is included in Attachment 3. Final C-141 Spill Notifications are included in Attachment 4.

## Closure Criteria Determination

The depth to groundwater was determined using information from the United States Geological Survey National Water Information Mapping System and Office of the State Engineers Water Rights Database. A 0.5-mile search radius was used to determine groundwater depth. The nearest active well to Falcon is a New Mexico Office of the State Engineer-identified commercial water well, located approximately 1.51 miles south-southwest of the site. The nearest well with a depth to groundwater reference is a domestic water well from 2020 located approximately 1.71 miles north-northwest of the site. The recorded depth to groundwater at that location was 868 feet below ground surface

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(bgs; New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System, 2022). Documentation used in Closure Criteria Determination research is included in Attachment 5.

<b>Closure Criteria Worksheet</b>			
<b>Site Name: Falcon Compressor Station</b>			
<b>Spill Coordinates:</b>		<b>X: 32.185748</b>	<b>Y: -103.736725</b>
<b>Site Specific Conditions</b>		<b>Value</b>	<b>Unit</b>
1	Depth to Groundwater	868	feet
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	28,034	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	53,546	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	20,474	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	8,008	feet
	ii) Within 1000 feet of any fresh water well or spring	8,008	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	9,829	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
10	Within a 100-year Floodplain	Area of minimal flood hazard	year
11	Soil Type	Loamy fine sand, fine sandy loam	
12	Ecological Classification	Loamy sand	
13	Geology	Eolian and piedmont deposits	
	<b>NMAC 19.15.29.12 E (Table 1) Closure Criteria</b>	<50'	<50' 51-100' >100'

The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 1.

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<b>Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS</b>	<b>Constituent</b>	<b>Limit</b>
< 50 feet	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

TPH - Total petroleum hydrocarbons = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO)

BTEX - Benzene, toluene, ethylbenzene, and xylenes

## Remedial Actions Taken

Remediation began on July 13, 2022, and was completed on September 9, 2022. Vertex personnel supervised the excavation of impacted soils. Field screening was completed at multiple sample points and consisted of analysis using a Photo Ionization Detector (volatile hydrocarbons), Dextsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and EC Meter (chlorides). Field screening results were used to identify areas requiring further remediation from those areas showing concentrations below determined closure criteria levels based on screenings of chlorides and hydrocarbons. Soils were removed to a depth of two feet bgs. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. Field screening results are presented in Table 2 and 3 (Attachment 2). The DFR for excavation activities is included in Attachment 3.

As there are no specific regulations designated by NMOCD for TEG releases, a dialogue was established with NMOCD to confirm closure criteria levels to be reached for applicable levels of TEG. Since there is no established closure criteria limit associated with TEG releases, additional excavation was completed to a depth of four feet bgs after the first confirmatory results at two feet bgs reported were in exceedance of strictest criteria. Communication with the NMOCD regulator is included in Attachment 6.

Notification that confirmatory samples were being collected was provided to the NMOCD on July 22, 2022, and notification for additional sampling on August 30, 2022, and are included in Attachment 6. Confirmatory composite samples were collected from the base and walls of the excavation in 200 square foot increments. A total of 11 samples for the lube oil excavation and 20 samples for the TEG excavation were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Hall Environmental Analysis Laboratory under chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), Total Petroleum Hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and Total Chlorides (EPA Method 300.0). Laboratory results are presented in Table 3 (Attachment 2) and the laboratory data report is included in Attachment 7. All confirmatory samples collected and analyzed were below closure criteria for the site.

## Closure Request

The spill area was fully delineated, remediated and backfilled with local soils. Confirmatory Sample Notification emails are included in Attachment 6. Confirmatory samples were analyzed by the laboratory and found to be below allowable concentrations as per NMAC Closure Criteria for Soils Impacted by a Release locations “under 50 feet to groundwater”. Based on these findings, Devon requests that this spill be closed.

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Falcon Compressor Station, nAPP2204725407 and nAPP2206735499

**2022 Spill Assessment and Remediation**  
September 2022

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Should you have any questions or concerns, please do not hesitate to contact the undersigned at 575.361.9880 or mpeppin@vertex.ca.



September 27, 2022

Monica Peppin, A.S.  
PROJECT MANAGER, REPORTING

Date

### Attachments

- Attachment 1. Figures
- Attachment 2. Tables
- Attachment 3. Daily Field Report(s) with Photographs
- Attachment 4. C-141 Spill Notifications
- Attachment 5. Closure Criteria for Soils Impacted by a Release Research Determination Documentation
- Attachment 6. Confirmatory Sample Notification and NMOCD Communication
- Attachment 7. Laboratory Data Reports and Chain of Custody Forms

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## References

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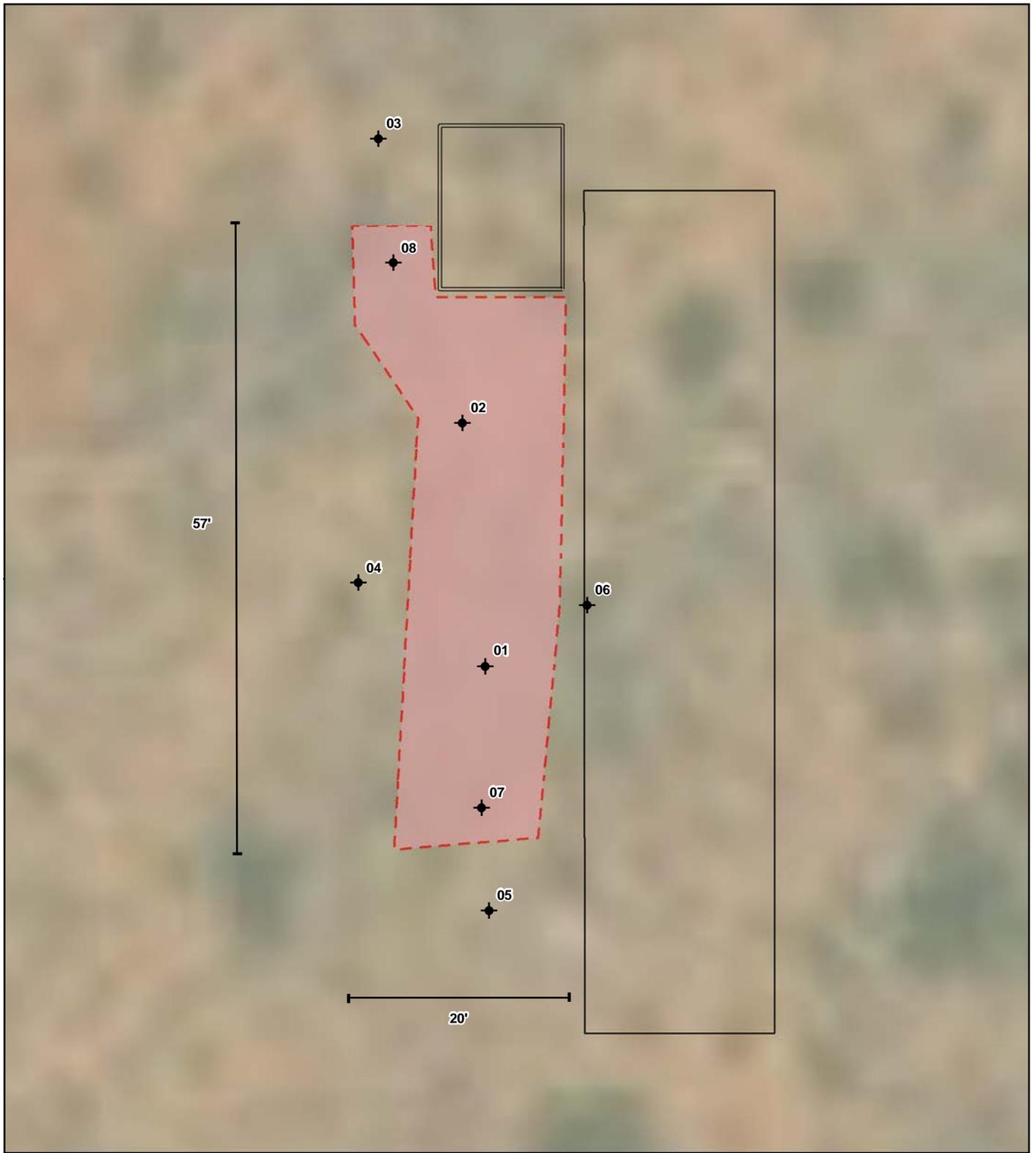
## **Limitations**

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

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

## **ATTACHMENT 1**

Document Path: C:\I-Projects\US PROJECTS\Devon Energy Corporation\2022\2E-00924 - Falcon Compressor Station\Figure 1 Characterization Sample Locations Falcon Compressor Station (22E-00924).mxd



- ◆ Borehole (Prefixed by "BH22-")
- ▭ Compressor and Equipment
- ▭ Release Area (~724 sq. ft.)
- ▭ Tank and Containment



0 2.5 5 10 ft.  
 NAD 1983 UTM Zone 13N  
 Date: Jun 24/22

Map Center:  
 Lat: 32.185609,  
 Long: -103.736899



**Characterization Sample Locations  
 Falcon Compressor Station**

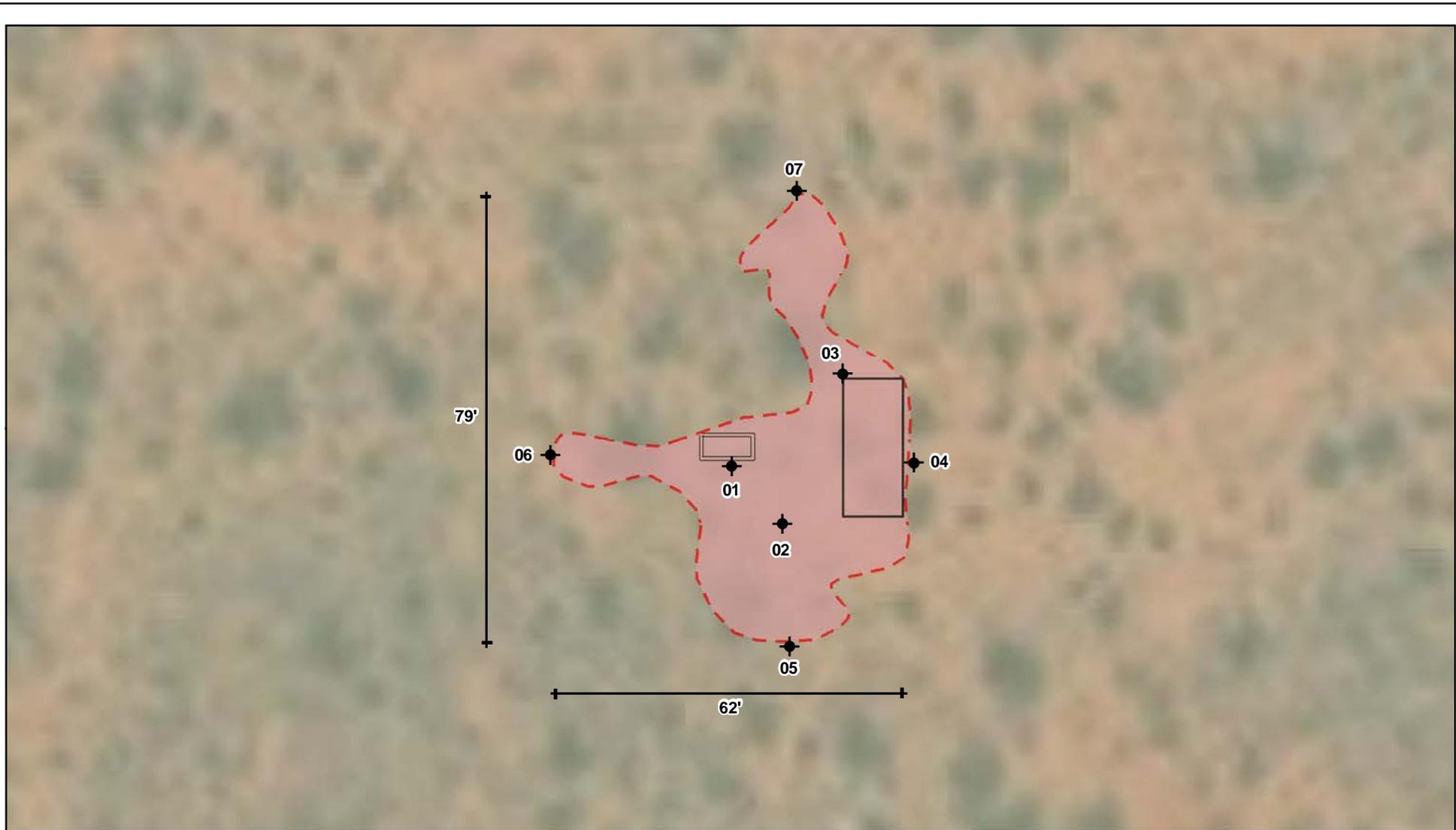
FIGURE:  
**1**



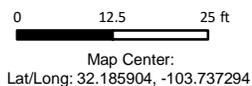
Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Background image from Esri, 2018. Feature locations from GPS, Vertex Professional Services., 2022.

Document Path: G:\1-Projects\US PROJECTS\Devon Energy Corporation\2022\2E-00924 - Falcon Compressor Station\Figure 2 Characterization Schematic Falcon Compressor Station (22E-00924).mxd



- ◆ Borehole
- Approximate TEG Release Area ( 1,897 sq. ft. )
- Equipment platform
- Tank and containment



NAD 1983 UTM Zone 13N  
Date: Apr 21/22



**Characterization Sampling Locations  
Falcon Compressor Station**

FIGURE:

**2**

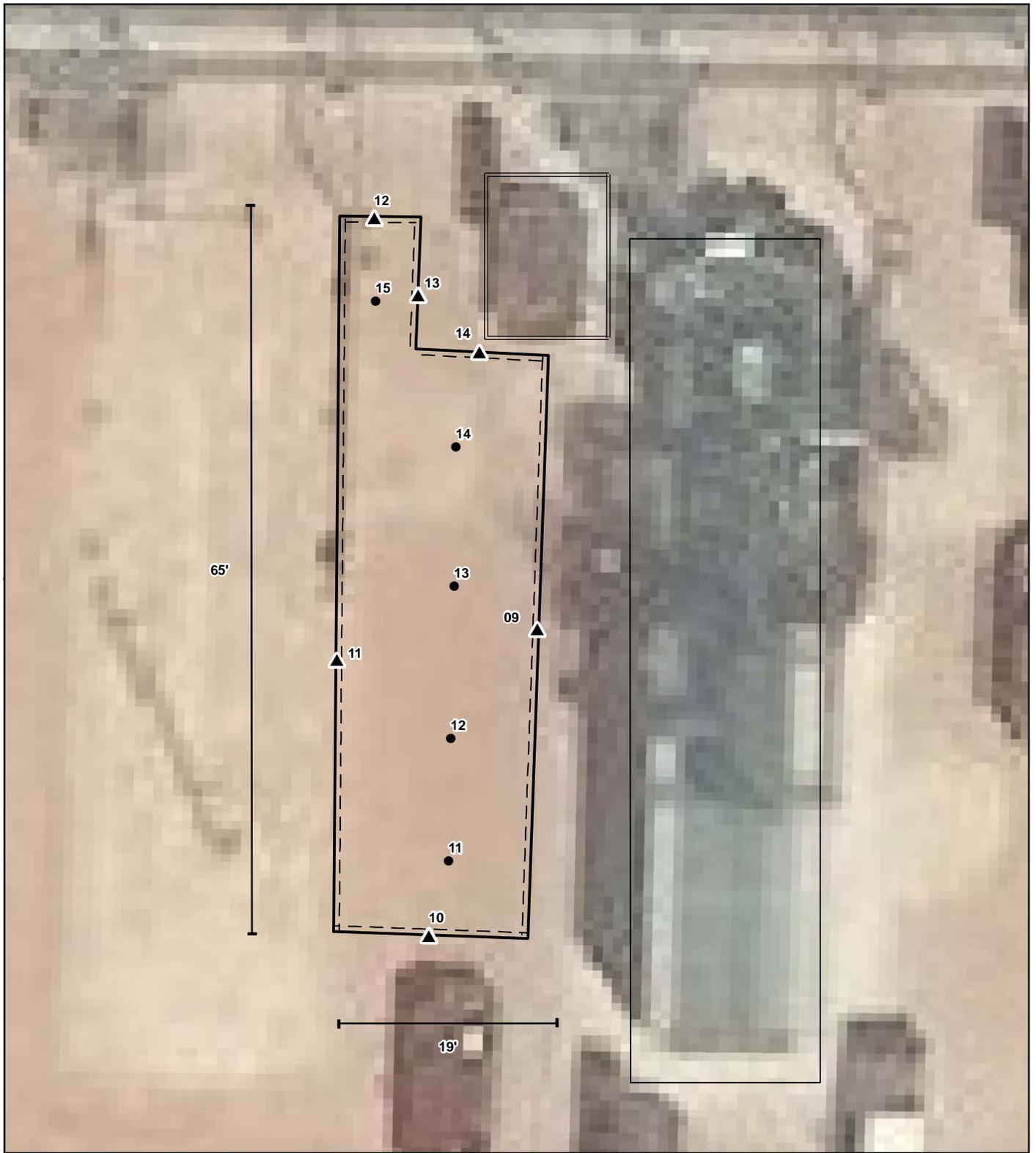


Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Aerial imagery from ESRI., 2021. Sampling and polygon delineations from Vertex Professional Services Ltd., 2021.

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Document Path: G:\1-Projects\US PROJECTS\Devon Energy Corporation\2022\22E-00924 - Falcon Compressor Station\Figure 3 Confirmatory Schematic (Falcon Compressor Station - TEG Release).mxd



- Base Sample (Prefixed by "BS22-")
- ▲ Wall Sample (Prefixed by "WS22-")
-  2' Excavation Area (~1,027 sq. ft.)
-  Compressor and Equipment
-  Tank and Containment



0 2.5 5 10 ft.  
 NAD 1983 UTM Zone 13N  
 Date: Sep 07/22

Map Center:  
 Lat: 32.185621,  
 Long:-103.736912



**Confirmatory Schematic**  
**Falcon Compressor Station - nAPP2204725407**

FIGURE:  
**3**



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 image from Maxar, 2021. Feature locations from GPS, Vertex Professional Services Ltd., 2022.

Document Path: C:\I-Projects\US PROJECTS\Devon Energy Corporation\2022\22E-00924 - Falcon Compressor Station\Falcon Compressor Station - Motor Oil Release.mxd



- Base Sample (Prefixed by "BS22-")
- ▲ Wall Sample (Prefixed by "WS22-")
- Approximate Excavation Extent (~2,110 sq. ft.)
- Equipment platform
- Tank and containment



0 2.5 5 10 ft.  
 NAD 1983 UTM Zone 13N  
 Date: Sep 07/22

Map Center:  
 Lat: 32.185900,  
 Long:-103.737277



**Confirmatory Schematic**  
**Falcon Compressor Station nAPP2206735499**

FIGURE:  
**4**



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 image from Maxar, 2021. Feature locations from GPS, Vertex Professional Services Ltd., 2022.

## **ATTACHMENT 2**

Client Name: Devon Energy Production Company, LP  
 Site Name: Falcon Compressor Station  
 NMOCD Tracking #: napp2204725407  
 Project #: 22E-00924  
 Lab Report: 2206705

Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID) (ppm)	Extractable Organic Compounds (PetroFlag) (ppm)	Chloride Concentration (ppm)	Volatile		Extractable					Chloride Concentration (mg/kg)
						Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)	
BH22-01	0	6/11/2022	0.0	<b>192</b>	ND	ND	ND	ND	25	<b>520</b>	25	<b>545</b>	ND
	2	6/11/2022	0.1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH22-02	0	6/11/2022	0.0	<b>148</b>	ND	ND	ND	ND	ND	<b>140</b>	ND	<b>140</b>	ND
	2	6/11/2022	0.1	37	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH22-03	0	6/11/2022	0.0	8	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2	6/11/2022	0.0	7	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH22-04	0	6/11/2022	0.0	48	161	ND	ND	ND	ND	ND	ND	ND	96
	2	6/11/2022	0.0	24	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH22-05	0	6/11/2022	0.0	53	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2	6/11/2022	0.0	14	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH22-06	0	6/11/2022	0.0	81	ND	ND	ND	ND	ND	ND	ND	ND	74
	2	6/11/2022	0.0	37	ND	ND	ND	ND	ND	ND	ND	ND	64
BH22-07	0	6/11/2022	0.2	<b>147</b>	ND	ND	ND	ND	28	<b>400</b>	28	<b>428</b>	ND
	2	6/11/2022	0.2	26	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH22-08	0	6/11/2022	0.7	<b>1,283</b>	ND	ND	ND	ND	<b>1800</b>	<b>28000</b>	<b>1800</b>	<b>29800</b>	67
	2	6/11/2022	0.1	18	ND	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 Closure Criteria (on-pad)**

Client Name: Devon Energy Production Company, LP  
 Site Name: Falcon Compressor Station  
 NM OCD Tracking #: nAPP2206735499  
 Project #: 22E-00924  
 Lab Reports: 2204844, L1484919

Table 3. Initial Characterization Sample Field Screen and Laboratory Results - Depth to Groundwater <50 feet bgs

Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic	
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration (calculated from EC)	Volatile		Extractable					Triethylene Glycol	Chloride Concentration
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)		
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH22-01	0	4/16/2022	9.8	<b>109</b>	470	0.36	7.91	ND	27000	ND	<b>27000</b>	<b>27000</b>	121000	ND
BH22-01	1	4/16/2022	22.4	22	116	ND	ND	ND	<b>560</b>	ND	<b>560</b>	<b>560</b>	8270	ND
BH22-01	2	4/16/2022	9.8	13	73	-	-	-	-	-	-	-	-	-
BH22-01	3	4/16/2022	4.6	12	0	-	-	-	-	-	-	-	-	-
BH22-01	4	4/16/2022	2.3	9	0	ND	ND	ND	ND	ND	ND	ND	571	ND
BH22-01	5	4/16/2022	11.3	16	0	-	-	-	-	-	-	-	-	-
BH22-02	0	4/16/2022	3.0	59	528	0.033	0.266	ND	17000	ND	<b>17000</b>	<b>17000</b>	92900	ND
BH22-02	1	4/16/2022	2.7	22	23	ND	ND	ND	15	ND	15	15	581	ND
BH22-02	2	4/16/2022	10.5	15	0	-	-	-	-	-	-	-	-	-
BH22-02	3	4/16/2022	5.1	9	0	-	-	-	-	-	-	-	-	-
BH22-02	4	4/16/2022	8.4	10	0	ND	ND	ND	ND	ND	ND	ND	34.1	ND
BH22-02	5	4/16/2022	3.3	13	8	-	-	-	-	-	-	-	-	-
BH22-03	0	4/16/2022	16.1	69	431	0.036	0.822	ND	17000	ND	<b>17000</b>	<b>17000</b>	98900	ND
BH22-03	1	4/16/2022	4.9	12	0	ND	ND	ND	19	ND	19	19	1310	ND
BH22-03	2	4/16/2022	7.2	10	0	-	-	-	-	-	-	-	-	-
BH22-03	3	4/16/2022	10.0	14	0	-	-	-	-	-	-	-	-	-
BH22-03	4	4/16/2022	10.5	12	0	ND	ND	ND	ND	ND	ND	ND	319	ND
BH22-03	5	4/16/2022	17.2	16	0	-	-	-	-	-	-	-	-	-
BH22-04	0	4/16/2022	1.4	33	0	ND	0.064	ND	12	ND	12	12	74.4	ND
BH22-04	1	4/16/2022	2.9	11	0	ND	ND	ND	ND	ND	ND	ND	14.9	ND
BH22-04	2	4/16/2022	5.3	13	0	-	-	-	-	-	-	-	-	-
BH22-04	3	4/16/2022	4.2	12	0	-	-	-	-	-	-	-	-	-
BH22-04	4	4/16/2022	5.4	12	0	ND	ND	ND	11	ND	11	11	ND	ND
BH22-05	0	4/17/2022	0.1	34	399	ND	ND	ND	ND	ND	ND	ND	34.8	110
BH22-05	1	4/17/2022	1.4	19	51	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH22-05	2	4/17/2022	1.7	16	0	-	-	-	-	-	-	-	-	-
BH22-05	3	4/17/2022	1.7	12	0	-	-	-	-	-	-	-	-	-
BH22-05	4	4/17/2022	1.5	17	0	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH22-06	0	4/17/2022	0.7	16	438	ND	ND	ND	ND	ND	ND	ND	ND	140
BH22-06	1	4/17/2022	1.0	12	20	ND	ND	ND	11	ND	11	11	ND	ND
BH22-06	2	4/17/2022	1.4	18	33	-	-	-	-	-	-	-	-	-
BH22-06	3	4/17/2022	1.2	9	0	-	-	-	-	-	-	-	-	-
BH22-06	4	4/17/2022	2.0	17	0	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH22-07	0	4/17/2022	0.6	33	236	ND	ND	ND	ND	ND	ND	ND	ND	66
BH22-07	1	4/17/2022	1.0	14	53	ND	ND	ND	ND	ND	ND	ND	8.86	ND
BH22-07	2	4/17/2022	1.7	12	10	-	-	-	-	-	-	-	-	-
BH22-07	3	4/17/2022	1.2	13	17	-	-	-	-	-	-	-	-	-
BH22-07	4	4/17/2022	1.2	20	40	ND	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 NM OCD Closure Criteria (on-pad)**



Client Name: Devon Energy Production Company  
 Site Name: Falcon Compressor Station  
 NMOCD Tracking #: nAPP2204725407  
 Project #: 22E-00924  
 Lab Reports: 2208801

Table 4. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater <50 feet bgs

Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID) (ppm)	Extractable Organic Compounds (PetroFlag) (ppm)	Chloride Concentration (ppm)	Volatile		Extractable					Chloride Concentration (mg/kg)
						Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)	
BS22-11	0.5	8/5/2022	-	70	ND	ND	ND	ND	55	ND	55	55	ND
BS22-12	0.5	8/5/2022	-	32	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS22-13	0.5	8/5/2022	-	22	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS22-14	0.5	8/5/2022	-	24	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS22-15	0.5	8/5/2022	-	22	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS22-09	0.5	8/5/2022	-	24	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS22-10	0.5	8/5/2022	-	28	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS22-11	0.5	8/5/2022	-	22	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS22-12	0.5	8/5/2022	-	19	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS22-13	0.5	8/5/2022	-	22	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS22-14	0.5	8/5/2022	-	34	ND	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 Closure Criteria**



Client Name: Devon Energy Production Company  
 Site Name: Falcon Compressor Station  
 NMOCD Tracking #: nAPP2206735499  
 Project #: 22E-00924  
 Lab Reports: 2208690, 2209222

Table 5. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater <50 feet bgs

Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic	
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (Petroflag)	Chloride Concentration	Volatile		Extractable					Triethylene Glycol	Chloride Concentration
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)		
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BS22-01	2	8/5/2022	-	14	ND	ND	ND	ND	77	ND	77	77	5590000	ND
	4	9/2/2022	-	26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS22-02	2	8/5/2022	-	14	288	ND	ND	ND	4700	ND	4700	4700	29800000	130
	4	9/2/2022	-	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS22-03	2	8/5/2022	-	14	ND	ND	ND	ND	ND	ND	ND	ND	12400	ND
	4	9/2/2022	-	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS22-04	2	8/5/2022	-	52	130	ND	ND	ND	3100	ND	3100	3100	31700000	120
	4	9/2/2022	-	32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS22-05	2	8/5/2022	-	30	ND	ND	ND	ND	320	ND	320	320	7780000	ND
	4	9/2/2022	-	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS22-06	2	8/5/2022	-	47	223	ND	ND	ND	1000	ND	1000	1000	16600000	170
	4	9/2/2022	-	16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS22-07	2	8/5/2022	-	36	ND	ND	ND	ND	1100	ND	1100	1100	17000000	110
	4	9/2/2022	-	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS22-08	2	8/5/2022	-	47	ND	ND	ND	ND	1400	ND	1400	1400	16100000	160
	4	9/2/2022	-	35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS22-09	2	8/5/2022	-	29	ND	ND	ND	ND	ND	ND	ND	ND	224000	ND
	4	9/2/2022	-	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS22-10	2	8/5/2022	-	6	ND	ND	ND	ND	80	ND	80	80	1630000	ND
	4	9/2/2022	-	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS22-16	4	9/2/2022	-	28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS22-01	0-2	8/5/2022	-	22	ND	ND	ND	ND	ND	ND	ND	ND	7340	ND
	0-4	9/2/2022	-	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS22-02	0-2	8/5/2022	-	19	ND	ND	ND	ND	ND	ND	ND	ND	23200	ND
	0-4	9/2/2022	-	39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS22-03	0-2	8/5/2022	-	34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	0-4	9/2/2022	-	26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS22-04	0-2	8/5/2022	-	20	ND	ND	ND	ND	ND	ND	ND	ND	5330	ND
	0-4	9/2/2022	-	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS22-05	0-2	8/5/2022	-	18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS22-06	0-2	8/5/2022	-	6	ND	ND	ND	ND	ND	ND	ND	ND	34500	ND
	0-4	9/2/2022	-	28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS22-07	0-2	8/5/2022	-	17	ND	ND	ND	ND	ND	ND	ND	ND	89400	ND
	0-4	9/2/2022	-	33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS22-08	0-2	8/5/2022	-	25	ND	ND	ND	ND	ND	ND	ND	ND	5880	ND
	0-4	9/2/2022	-	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS22-15	0-4	9/2/2022	-	16	ND	ND	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 Closure Criteria**

**Bold and green shaded indicates sample recollected**



**ATTACHMENT 3**



# Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	4/16/2022
Site Location Name:	Falcon Compressor Station	Report Run Date:	4/17/2022 12:34 AM
Client Contact Name:	Wes Matthews	API #:	
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

### Summary of Times

Arrived at Site 4/16/2022 7:53 AM

Departed Site 4/16/2022 3:30 PM

### Field Notes

- 8:50** Completed safety paperwork on arrival. Objective to delineate TEG release and determine if 3rd party motor oil release next to compressors has been cleaned up.
- 8:51** Walked around compressors and determined possible 3rd party motor oil release point point based on picture.
- 10:37** Mapped approximate TEG release in Arc collector. Aerial photography not recent enough to show compressor station. Polygon approximate. Mapped approximate location of equipment platform that blocks east portion of spill and release source point, and tank/containment in spill area.
- 15:17** Collected BH22-01, 02, and 03 close to release area to 5 feet bgs.
- 17:29** Collected BH22-04 immediately east of equipment platform and release for east edge of horizontal delineation.

### Next Steps & Recommendations

- 1** Complete horizontal delineation north, west, south.



# Daily Site Visit Report

## Site Photos

Viewing Direction: Northeast



Descriptive Photo - 1  
Viewing Direction: Northeast  
Desc: West of west compressor, Possible release point for 3rd party motor oil spill  
Created: 4/19/2022 8:22:58 AM  
Lat:32.185462, Long:-103.739948

West of west compressor facing northeast. Possible release point for 3rd party motor oil spill.

Viewing Direction: Northeast



Descriptive Photo - 10  
Viewing Direction: Northeast  
Desc: Southwest of equipment platform facing northeast. Collected BH22-02 south of equipment platform.  
Created: 4/19/2022 3:10:16 PM  
Lat:32.185462, Long:-103.739948

Southwest of equipment platform facing northeast. Collected BH22-02 south of equipment platform.



# Daily Site Visit Report

**Viewing Direction: Southeast**

Descriptive Photo - 11  
Viewing Direction: Southeast  
Northwest of equipment platform facing southeast. Collected BH22-03 north of equipment platform.  
Created: 4/18/2022 2:10:18 PM  
Latitude: 18.0004, Longitude: -105.737319

Northwest of equipment platform facing southeast. Collected BH22-03 north of equipment platform.

**Viewing Direction: West**

Descriptive Photo - 12  
Viewing Direction: West  
East of equipment platform facing west. Collected BH22-04 east of equipment platform.  
Created: 4/18/2022 2:11:11 PM  
Latitude: 18.0004, Longitude: -105.737319

East of equipment platform facing west. Collected BH22-04 east of equipment platform.

**Viewing Direction: Southwest**

Descriptive Photo - 13  
Viewing Direction: Southwest  
North of release facing southwest. Release extends east under equipment platform.  
Created: 4/18/2022 2:09:18 AM  
Latitude: 18.0004, Longitude: -105.737319

North of release facing southwest. Release extends east under equipment platform.

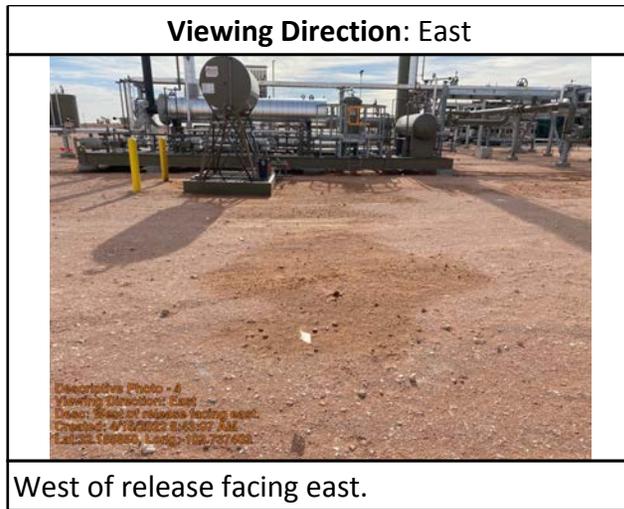
**Viewing Direction: Southeast**

Descriptive Photo - 14  
Viewing Direction: Southeast  
North of release facing southeast. Release stain visible on surface.  
Created: 4/18/2022 2:09:17 AM  
Latitude: 18.0004, Longitude: -105.737319

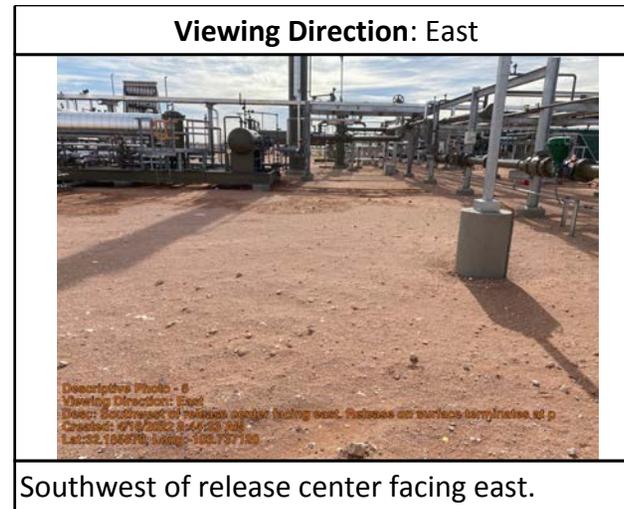
North of release facing southeast. Release stain visible on surface.



# Daily Site Visit Report



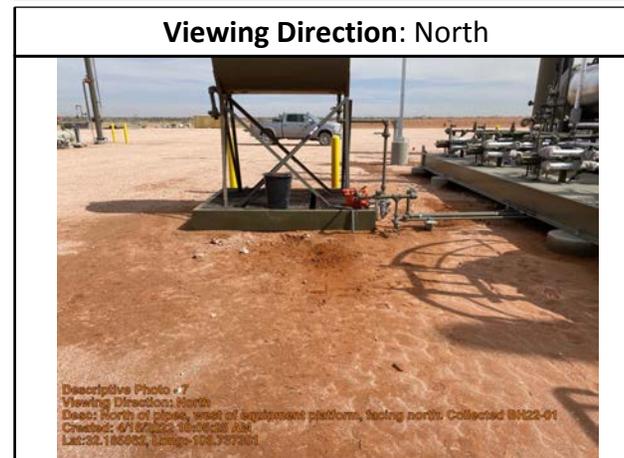
West of release facing east.



Southwest of release center facing east. Release on surface terminates at pipes to south.



East of release facing west. Release on surface extends approximately 1 foot past southeast corner of platform.



North of pipes, west of equipment platform, facing north. Collected BH22-01 west of equipment platform.



# Daily Site Visit Report

**Viewing Direction: Southeast**



Descriptive Photo - 5  
Viewing Direction: Southeast  
East of equipment platform facing southeast. Equipment platform blocks east portion of spill and release source.  
Created: 4/19/2022 10:28:18 AM  
Lat:32.185962, Long:-103.737301

Northwest of equipment platform facing southeast. Equipment platform blocks east portion of spill and release source.

**Viewing Direction: Southeast**



Descriptive Photo - 6  
Viewing Direction: Southeast  
East of equipment platform facing southeast. Tank and containment within spill area.  
Created: 4/19/2022 10:28:33 AM  
Lat:32.185962, Long:-103.737301

West of equipment platform facing southeast. Tank and containment within spill area.

# Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Lakin Pullman

**Signature:**

A handwritten signature in black ink, appearing to be 'LP', written over a horizontal line. The signature is stylized and cursive.

Signature



## Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	4/17/2022
Site Location Name:	Falcon Compressor Station	Report Run Date:	4/17/2022 10:33 PM
Client Contact Name:	Wes Matthews	API #:	
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

### Summary of Times

Arrived at Site	4/17/2022 6:49 AM
Departed Site	4/17/2022 1:34 PM

### Field Notes

- 11:58** Completed safety paperwork on arrival.
- 12:00** Advanced boreholes BH22-05, BH22-06, and BH22-07 off south, west, and north edges of spill staining, respectively. Completed characterization of TEG release.
- 12:11** Equipment on location will interfere with excavation and is blocking the source of the release. The surface foot of material is caliche, with sand underneath.
- 12:14** Moved to compressors to investigate 3rd party motor oil release. Area between compressors has been covered with crushed stone.
- 13:07** Moved crushed stone off to side and collected surface samples SS22-01 an SS22-02 on release area west of west compressor based on picture of event. SS22-01 is under strictest NMOCD requirements per field screening. SS22-02 is just over strictest requirements for TPH (115 ppm) per field screening. Release area has had work completed, but how much is unknown. Need to check with 3rd party to see if the kept records and collected confirmation samples.

### Next Steps & Recommendations

- 1 Remove surface 0.5-1.0 feet of TEG release area, avoiding equipment.



# Daily Site Visit Report

## Site Photos

Viewing Direction: North



Descriptive Photo - 1  
Viewing Direction: North  
Date: South of release area and pipe facing north. Collected BH22-05 off south edge of spill outline.  
Created: 4/17/2022 2:44:17 AM  
Lat:32.185405, Long:-103.735884

South of release area and pipe facing north. Collected BH22-05 off south edge of spill outline.

Viewing Direction: North



Descriptive Photo - 16  
Viewing Direction: North  
Date: West of west compressor facing north. Pushed crushed stone aside and collected SS22-02.  
Created: 4/17/2022 12:31:54 PM  
Lat:32.185405, Long:-103.735884

West of west compressor facing north. Pushed crushed stone aside and collected SS22-02.

Viewing Direction: East



Descriptive Photo - 2  
Viewing Direction: East  
Date: West of release area and equipment. Collected BH22-06 off west edge of spill outline.  
Created: 4/17/2022 2:37:58 AM  
Lat:32.185405, Long:-103.735884

West of release area facing east. Collected BH22-06 off west edge of spill outline.

Viewing Direction: South



Descriptive Photo - 3  
Viewing Direction: South  
Date: South of release area facing south. Collected BH22-07 off north edge of spill outline.  
Created: 4/17/2022 2:32:25 AM  
Lat:32.185407, Long:-103.737785

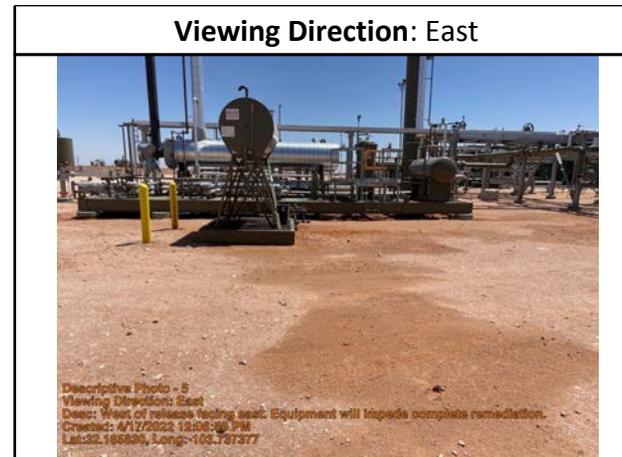
North of release area facing south. Collected BH22-07 off north edge of spill outline.



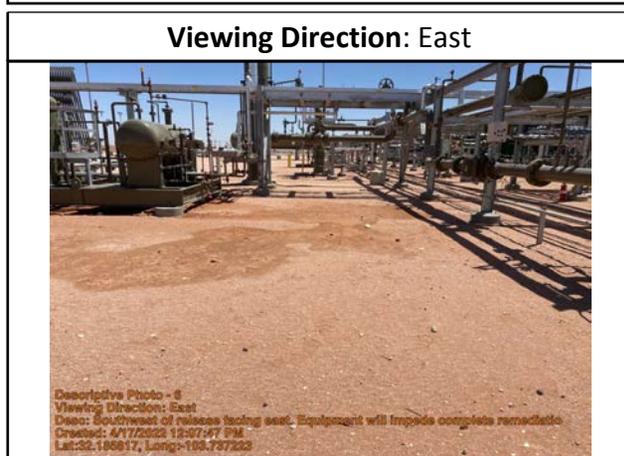
# Daily Site Visit Report



North of release facing southeast. Equipment will impede complete remediation.



West of release facing east. Equipment will impede complete remediation.



Southwest of release facing east. Equipment will impede complete remediation.



Southeast of release facing northwest. Equipment will impede complete remediation.



# Daily Site Visit Report

**Viewing Direction: North**



Descriptive Photo - 8  
Viewing Direction: North  
Desc: Southwest of compressors facing north. Collected stone was spread over release area.  
Created: 4/17/2022 12:18:02 PM  
Lat:22.185424, Long:-103.736873

Southwest of compressors facing north.  
Crushed stone was spread over release area.

**Viewing Direction: North**



Descriptive Photo - 8  
Viewing Direction: North  
Desc: West of west compressor facing north. Pushed crushed stone aside and collected.  
Created: 4/17/2022 12:31:04 PM  
Lat:22.185700, Long:-103.736888

West of west compressor facing north. Pushed crushed stone aside and collected SS22-01.

# Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Lakin Pullman

**Signature:**

A handwritten signature in black ink, appearing to be 'LP', written over a horizontal line.

Signature



# Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	
Site Location Name:	Falcon Compressor Station	Report Run Date:	8/31/2022 7:51 PM
Client Contact Name:	Wes Matthews	API #:	
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

## Summary of Times

Arrived at Site \_\_\_\_\_

Departed Site \_\_\_\_\_

## Field Notes

- 13:32** Arrived on location
- 13:32** Oversaw hydrovac operations

## Next Steps & Recommendations

1



# Daily Site Visit Report

## Site Photos

Viewing Direction: South



Extent of TEG release excavation

Viewing Direction: East



TEG containment and release excavation

Viewing Direction: Northwest



Dehy skid, TEG containment and excavation

Viewing Direction: South



Motor oil containment and excavation



# Daily Site Visit Report

**Viewing Direction: East**



Descriptive Photo - 5  
Viewing Direction: East  
Desc: Central area of motor oil excavation  
Created: 8/5/2022 2:30:58 PM  
Lat:32.185818, Long:-103.738993

Central area of motor oil excavation

**Viewing Direction: North**



Descriptive Photo - 6  
Viewing Direction: North  
Desc: Southern area of motor oil release excavation  
Created: 8/5/2022 2:31:48 PM  
Lat:32.185818, Long:-103.738993

Southern area of motor oil release excavation

# Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** McKitric Wier

**Signature:**

A handwritten signature in black ink, appearing to be 'MW', written over a horizontal line.

Signature



# Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	9/14/2022
Site Location Name:	Falcon Compressor Station	Report Run Date:	9/14/2022 10:59 PM
Client Contact Name:	Wes Matthews	API #:	
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

### Summary of Times

Arrived at Site 9/14/2022 12:10 PM

Departed Site 9/14/2022 1:00 PM

### Field Notes

- 12:33** Arrived on location and filled out JSA's
- 12:33** Began taking photographs of excavation on TEG spill
- 12:53** Completed photographing current state of excavation and departed site

### Next Steps & Recommendations

1



# Daily Site Visit Report

## Site Photos

**Viewing Direction: East**



Descriptive Photo - 8  
Viewing Direction: East  
Desc: Southern portion of excavation and southwest wall  
Created: 9/14/2022 12:34:28 PM  
Lat:32.185944, Long:-103.737224

Southern portion of excavation and southwest wall

**Viewing Direction: South**



Descriptive Photo - 10  
Viewing Direction: South  
Desc: Northernmost extent of excavation and excavation between dehy skid and TEG containment  
Created: 9/14/2022 12:42:13 PM  
Lat:32.185923, Long:-103.737224

Northernmost extent of excavation and excavation between dehy skid and TEG containment

**Viewing Direction: South**



Descriptive Photo - 11  
Viewing Direction: South  
Desc: Excavation east of dehy skid  
Created: 9/14/2022 12:42:50 PM  
Lat:32.185923, Long:-103.737224

Excavation east of dehy skid

**Viewing Direction: West**



Descriptive Photo - 12  
Viewing Direction: West  
Desc: Southernmost portion of excavation and southwest wall  
Created: 9/14/2022 12:43:38 PM  
Lat:32.185946, Long:-103.737224

Southernmost portion of excavation and southwest wall



# Daily Site Visit Report

Viewing Direction: North



Descriptive Photo - 13  
Viewing Direction: North  
Desc: Southern portion of excavation and south wall of excavation around dehy skid  
Created: 9/14/2022 12:44:18 PM  
Lat: 32.185837, Long: -103.737260

Southern portion of excavation and south wall of excavation around dehy skid

Viewing Direction: North



Descriptive Photo - 14  
Viewing Direction: North  
Desc: Southern portion of excavation at 4' depth  
Created: 9/14/2022 12:45:06 PM  
Lat: 32.185837, Long: -103.737260

Southern portion of excavation at 4' depth

Viewing Direction: North



Descriptive Photo - 2  
Viewing Direction: North  
Desc: Southwestern portion of excavation and TEG containment  
Created: 9/14/2022 11:53:45 PM  
Lat: 32.185837, Long: -103.737307

Southwestern portion of excavation and TEG containment

Viewing Direction: East

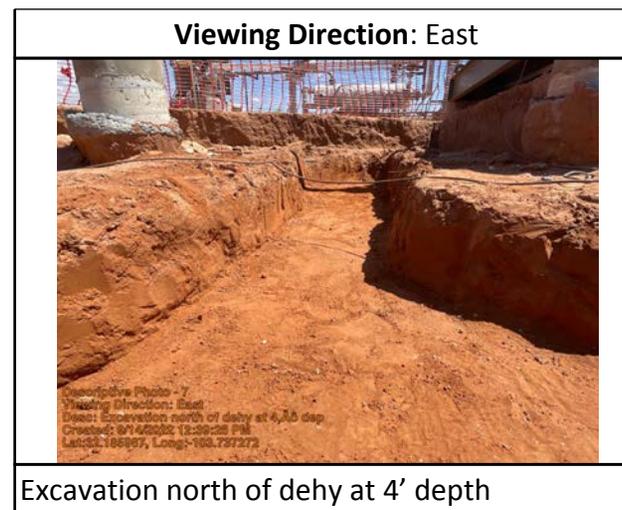
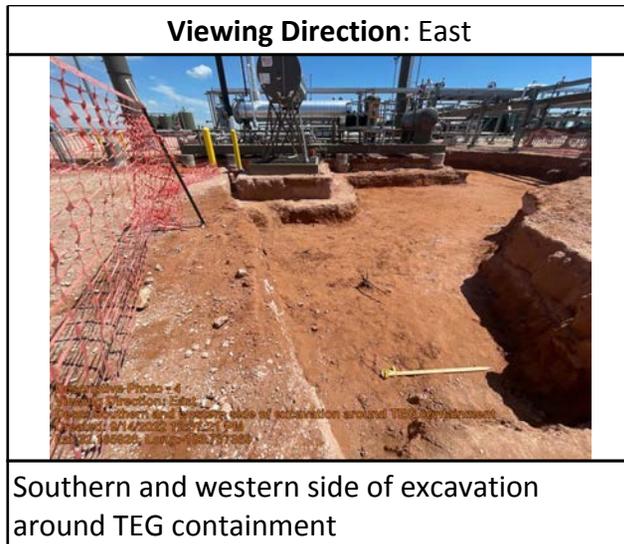


Descriptive Photo - 3  
Viewing Direction: East  
Desc: Southwestern portion of excavation and dehy skid  
Created: 9/14/2022 12:38:58 PM  
Lat: 32.185836, Long: -103.737356

Southwestern portion of excavation and dehy skid



# Daily Site Visit Report





# Daily Site Visit Report

Viewing Direction: North



Northernmost portion of excavation

Viewing Direction: Northwest



Northernmost portion of excavation

# Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** McKitric Wier

**Signature:**

Signature

A handwritten signature in black ink, appearing to be 'McKitric Wier', written over a thin horizontal line. The word 'Signature' is printed in a small font below the line.

**ATTACHMENT 4**

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

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

### Location of Release Source

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

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

### Nature and Volume of Release

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

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

Cause of Release

Incident ID	nAPP2204725407
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

*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?	<50 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

**Characterization Report Checklist:** *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Incident ID	nAPP2204725407
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Dale Woodall Title: Env. Professional

Signature: *Dale Woodall* Date: 9/29/2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

Received by: Jocelyn Harimon Date: 10/05/2022

Incident ID	nAPP2204725407
District RP	
Facility ID	
Application ID	

## Closure

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 (electronic submittals in .pdf format are preferred) 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.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

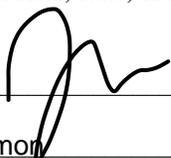
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Printed Name: Dale Woodall Title: Env. Professional  
 Signature: *Dale Woodall* Date: 9/29/2022  
 email: dale.woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

Received by: Jocelyn Harimon Date: 12/28/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 12/28/2022  
 Printed Name: Jocelyn Harimon Title: Environmental Specialist

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

State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

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

Incident ID	NAPP2206735499
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Dale Woodall	Contact Telephone 575-748-1838
Contact email Dale.Woodall@dvn.com	Incident # (assigned by OCD)
Contact mailing address 6488 Seven Rivers Hwy Artesia, NM 88210	

### Location of Release Source

Latitude 32.185748 Longitude -103.736725  
*(NAD 83 in decimal degrees to 5 decimal places)*

Site Name Falcon Compressor Station	Site Type
Date Release Discovered 3/5/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
L	25	24S	31E	EDDY

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

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input checked="" type="checkbox"/> Other (describe) TEG	Volume/Weight Released (provide units) 250 GALLONS	Volume/Weight Recovered (provide units) 42 GALLONS

Cause of Release Night Mechanic found a PRV leaking on location at 22:00 on Mar 5, 2022. The location was ESD'd. The CDM operator found that 250 gallons of Triethylene Glycol (TEG) were spilled onto the ground. The unit was not put back into service. 1 bbl recovered. Spill did not leave location.

Incident ID	nAPP2206735499
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

*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?	<50 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

**Characterization Report Checklist: Each of the following items must be included in the report.**

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	nAPP2206735499
District RP	
Facility ID	
Application ID	

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Signature: *Dale Woodall* Date: 9/29/2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

Received by: Jocelyn Harimon Date: 12/28/2022

Incident ID	nAPP2206735499
District RP	
Facility ID	
Application ID	

## Closure

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Printed Name: Dale Woodall Title: Env. Professional  
 Signature: *Dale Woodall* Date: 9/29/2022  
 email: dale.woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

Received by: Jocelyn Harimon Date: 12/28/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 12/28/2022  
 Printed Name: Jocelyn Harimon Title: Environmental Specialist

**ATTACHMENT 5**



# New Mexico Office of the State Engineer

## Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)  
 (quarters are smallest to largest) (NAD83 UTM in meters)

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64 Q16 Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
C	02571	4 1 2	02	25S	31E	618292	3559294*

<b>Driller License:</b>		<b>Driller Company:</b>					
<b>Driller Name:</b>							
<b>Drill Start Date:</b>	05/22/1968	<b>Drill Finish Date:</b>	05/22/1968	<b>Plug Date:</b>			
<b>Log File Date:</b>		<b>PCW Rcv Date:</b>		<b>Source:</b> Shallow			
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>		<b>Estimated Yield:</b>			
<b>Casing Size:</b>	7.00	<b>Depth Well:</b>	860 feet	<b>Depth Water:</b>			

<b>Meter Number:</b>	16564	<b>Meter Make:</b>	MASTERMETER
<b>Meter Serial Number:</b>	8148346	<b>Meter Multiplier:</b>	100.0000
<b>Number of Dials:</b>	6	<b>Meter Type:</b>	Diversion
<b>Unit of Measure:</b>	Gallons	<b>Return Flow Percent:</b>	
<b>Usage Multiplier:</b>		<b>Reading Frequency:</b>	

**Meter Readings (in Acre-Feet)**

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
04/01/2014	2014	378932	A	RPT		0
07/01/2014	2014	434578	A	RPT		17.077
10/01/2014	2014	502567	A	RPT		20.865
12/31/2014	2014	567990	A	RPT		20.078
02/01/2015	2015	585936	A	RPT		5.507
03/01/2015	2015	601430	A	RPT		4.755
04/01/2015	2015	621909	A	RPT		6.285
04/30/2015	2015	642863	A	RPT		6.431
05/31/2015	2015	663802	A	RPT		6.426
07/01/2015	2015	680965	A	RPT		5.267
08/01/2015	2015	688400	A	RPT		2.282
08/31/2015	2015	707064	A	RPT		5.728
10/01/2015	2015	724931	A	RPT		5.483

<b>**YTD Meter Amounts:</b>	<b>Year</b>	<b>Amount</b>
	2014	58.020
	2015	48.164

\*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.



# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
C	02572	4	2	2	02	25S	31E	618695	3559294*

x

**Driller License:**

**Driller Company:**

**Driller Name:**

**Drill Start Date:** 10/12/1968

**Drill Finish Date:** 10/12/1968

**Plug Date:**

**Log File Date:**

**PCW Rev Date:**

**Source:**

**Pump Type:**

**Pipe Discharge Size:**

**Estimated Yield:**

**Casing Size:** 5.50

**Depth Well:** 852 feet

**Depth Water:**

x

\*UTM location was derived from PLSS - see Help

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3/28/22 10:47 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
22333	C 04388 POD1	3	2	1	23	24S	31E	617546	3564006

<b>Driller License:</b> 1058		<b>Driller Company:</b> KEY'S DRILLING & PUMP SERVICE	
<b>Driller Name:</b> KEY, GARYR.S AICHARDDENAS			
<b>Drill Start Date:</b> 12/18/2019	<b>Drill Finish Date:</b> 02/22/2020	<b>Plug Date:</b>	
<b>Log File Date:</b> 02/27/2020	<b>PCW Rev Date:</b>	<b>Source:</b> Artesian	
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 60 GPM	
<b>Casing Size:</b> 4.50	<b>Depth Well:</b> 910 feet	<b>Depth Water:</b> 868 feet	

<b>Water Bearing Stratifications:</b>	<b>Top</b>	<b>Bottom</b>	<b>Description</b>
	866	868	Limestone/Dolomite/Chalk

<b>Casing Perforations:</b>	<b>Top</b>	<b>Bottom</b>
	850	910

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3/28/22 10:47 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Water Right Summary



[get image list](#)

**WR File Number:** C 04388                      **Subbasin:** C                      **Cross Reference:** -  
**Primary Purpose:** DOM 72-12-1 DOMESTIC ONE HOUSEHOLD  
**Primary Status:** PMT PERMIT  
**Total Acres:**                                      **Subfile:** -                                      **Header:** -  
**Total Diversion:** 1                              **Cause/Case:** -  
**Owner:** TWIN WELLS RANCH LLC  
**Contact:** STEVE MCCUTCHEON

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/	Acres	Diversion	Consumptive
			1	2		To			
<a href="#">664131</a>	<a href="#">72121</a>	<a href="#">2019-12-11</a>	PMT	LOG	C 04388 POD1	T		1	

### Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	64Q16Q4Sec	Tws	Rng	X	Y	Other Location Desc
<a href="#">C 04388 POD1</a>	22333	Artesian	3	2	1	23 24S 31E	617546	3564006	

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3/28/22 10:53 AM

WATER RIGHT SUMMARY



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

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

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

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

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Q Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">C 02574</a>		CUB	ED	1	1	2	02	25S	31E	618092	3559494*	2441			
<a href="#">C 02572</a>		CUB	ED	4	2	2	02	25S	31E	618695	3559294*	2461	852		
<a href="#">C 02571</a>		CUB	ED	4	1	2	02	25S	31E	618292	3559294*	2556	860		
<a href="#">C 02573</a>		CUB	ED	1	4	2	02	25S	31E	618499	3559091*	2697			
<a href="#">C 04388 POD1</a>		C	ED	3	2	1	23	24S	31E	617546	3564006	2753	910	868	42
<a href="#">C 02568</a>		CUB	ED	4	3	1	01	25S	31E	619103	3558892*	2832	1025		
<a href="#">C 02569</a>		CUB	ED	4	4	2	02	25S	31E	618699	3558891*	2859	1016		
<a href="#">C 04576 POD1</a>		CUB	ED	1	2	1	23	24S	31E	617700	3564324	2947	910	850	60
<a href="#">C 02570</a>		CUB	ED	4	2	4	02	25S	31E	618704	3558489*	3257	895		
<a href="#">C 03830 POD1</a>		CUB	ED	4	2	4	02	25S	31E	618632	3558432	3322	450		
<a href="#">C 04508 POD1</a>		CUB	ED	4	4	3	15	24S	31E	616298	3564493	3929	110		
<a href="#">C 03530 POD1</a>		C	LE	3	4	3	07	24S	32E	620886	3566156	4784	550		

Average Depth to Water: **859 feet**

Minimum Depth: **850 feet**

Maximum Depth: **868 feet**

Record Count: 12

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 619086

**Northing (Y):** 3561724

**Radius:** 5000

\*UTM location was derived from PLSS - see Help

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3/28/22 10:40 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

# Falcon Compressor Station Proximity Map

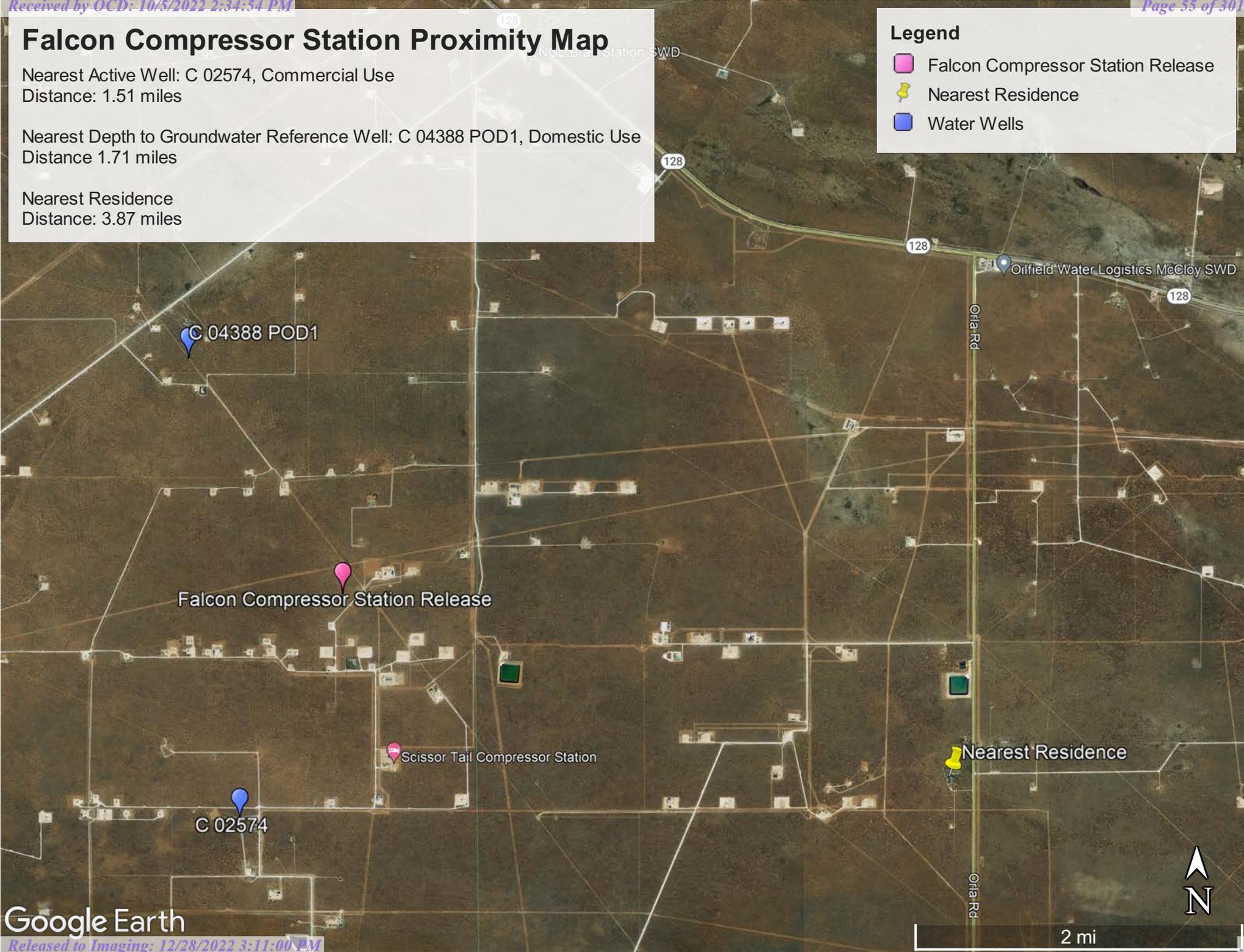
Nearest Active Well: C 02574, Commercial Use  
Distance: 1.51 miles

Nearest Depth to Groundwater Reference Well: C 04388 POD1, Domestic Use  
Distance 1.71 miles

Nearest Residence  
Distance: 3.87 miles

**Legend**

- Falcon Compressor Station Release
- 📍 Nearest Residence
- Water Wells





# Intermittent, 28034 feet



March 28, 2022

### Wetlands

- Estuarine and Marine Deepwater
- 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.



# Pond, 53546 feet



March 28, 2022

### Wetlands

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

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# New Mexico Office of the State Engineer

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C	02574	1	1	2	02	25S	31E	618092	3559494*

<b>Driller License:</b>		<b>Driller Company:</b>	
<b>Driller Name:</b>			
<b>Drill Start Date:</b>	12/08/1973	<b>Drill Finish Date:</b>	12/08/1973
<b>Log File Date:</b>		<b>PCW Rcv Date:</b>	
<b>Pump Type:</b>		<b>Estimated Yield:</b>	Shallow
<b>Casing Size:</b>	7.00	<b>Depth Well:</b>	

<b>Meter Number:</b>	534	<b>Meter Make:</b>	MASTERMETER
<b>Meter Serial Number:</b>	8105692	<b>Meter Multiplier:</b>	100.0000
<b>Number of Dials:</b>	6	<b>Meter Type:</b>	Diversion
<b>Unit of Measure:</b>	Gallons	<b>Return Flow Percent:</b>	
<b>Usage Multiplier:</b>		<b>Reading Frequency:</b>	

**Meter Readings (in Acre-Feet)**

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
04/08/1999	1999	5	A	ms		0
12/07/1999	1999	3162	A	ms		0.407
03/01/2000	2000	3487	A	ms		0.042
08/17/2000	2000	16639	A	mb		1.695
09/30/2000	2000	19545	A	RPT		0.375
12/31/2000	2000	24556	A	RPT		0.646
06/30/2001	2001	27640	A	RPT		0.398
09/30/2001	2001	40251	A	RPT		1.625
12/31/2001	2001	42744	A	tg		0.321
03/31/2002	2002	44455	A	mb		0.221
06/30/2002	2002	46824	A	rm		0.305
01/02/2003	2002	47958	A	RPT		0.146
03/31/2003	2003	49039	A	RPT		0.139
06/30/2003	2003	50257	A	RPT		0.157
09/30/2003	2003	52007	A	ab		0.226
12/31/2003	2003	54346	A	ab		0.301
03/31/2004	2004	54996	A	RPT		0.084
06/30/2004	2004	57441	A	RPT		0.315
09/30/2004	2004	58623	A	tw		0.152
12/31/2004	2004	60821	A	RPT		0.283
03/31/2005	2005	61432	A	RPT		0.079
06/30/2005	2005	62637	A	RPT		0.155
04/01/2014	2014	212089	A	RPT		0

10/01/2014	2014	234746	A	RPT	6.953
01/01/2015	2014	293484	A	RPT	18.026
02/01/2015	2015	312437	A	RPT	5.816
03/01/2015	2015	323836	A	RPT	3.498
04/01/2015	2015	340723	A	RPT	5.182
05/31/2015	2015	385263	A	RPT	13.669
07/01/2015	2015	403303	A	RPT	5.536
08/01/2015	2015	413318	A	RPT	3.073
08/31/2015	2015	426787	A	RPT	4.133
10/01/2015	2015	445708	A	RPT	5.807

---

x

<b>**YTD Meter Amounts:</b>		
<b>Year</b>	<b>Year</b>	<b>Amount</b>
	1999	0.407
	2000	2.758
	2001	2.344
	2002	0.672
	2003	0.823
	2004	0.834
	2005	0.234
	2014	24.979
	2015	46.714

---

\*UTM location was derived from PLSS - see Help

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3/28/22 10:47 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Water Right Summary



**WR File Number:** C 02574      **Subbasin:** CUB      **Cross Reference:** -  
**Primary Purpose:** COM    COMMERCIAL  
**Primary Status:** PMT    PERMIT  
**Total Acres:** 0      **Subfile:** -      **Header:** -  
**Total Diversion:** 12      **Cause/Case:** -  
**Agent:** OXY USA INC  
**Contact:** JEREMY MURPHREY  
**Owner:** BUREAU OF LAND MANAGEMENT  
**Contact:** JAMES STOVALL

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/	Acres	Diversion	Consumptive
			1	2		To			
<a href="#">531582</a>	<a href="#">COWNF</a>	<a href="#">2013-07-16</a>	CHG	PRC	C 02574	T	0	0	
<a href="#">190047</a>	<a href="#">COWNF</a>	<a href="#">2000-09-05</a>	CHG	PRC	C 02574	T	0	0	
<a href="#">169495</a>	<a href="#">ADM</a>	<a href="#">1999-11-09</a>	PMT	MTR	C 02574	T	0	12	
<a href="#">147112</a>	<a href="#">DCL</a>	<a href="#">1998-03-30</a>	DCL	PRC	C 02574 - AMENDED	T	0	12	
<a href="#">145886</a>	<a href="#">DCL</a>	<a href="#">1998-03-10</a>	DCL	PRC	C 02574	T	0	3	

### Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	64Q16Q4Sec	Tw	Rng	X	Y	Other Location Desc
<a href="#">C 02574</a>		Shallow	1	1	2	02 25S 31E	618092	3559494*	

\*An (\*) after northing value indicates UTM location was derived from PLSS - see Help

### Source

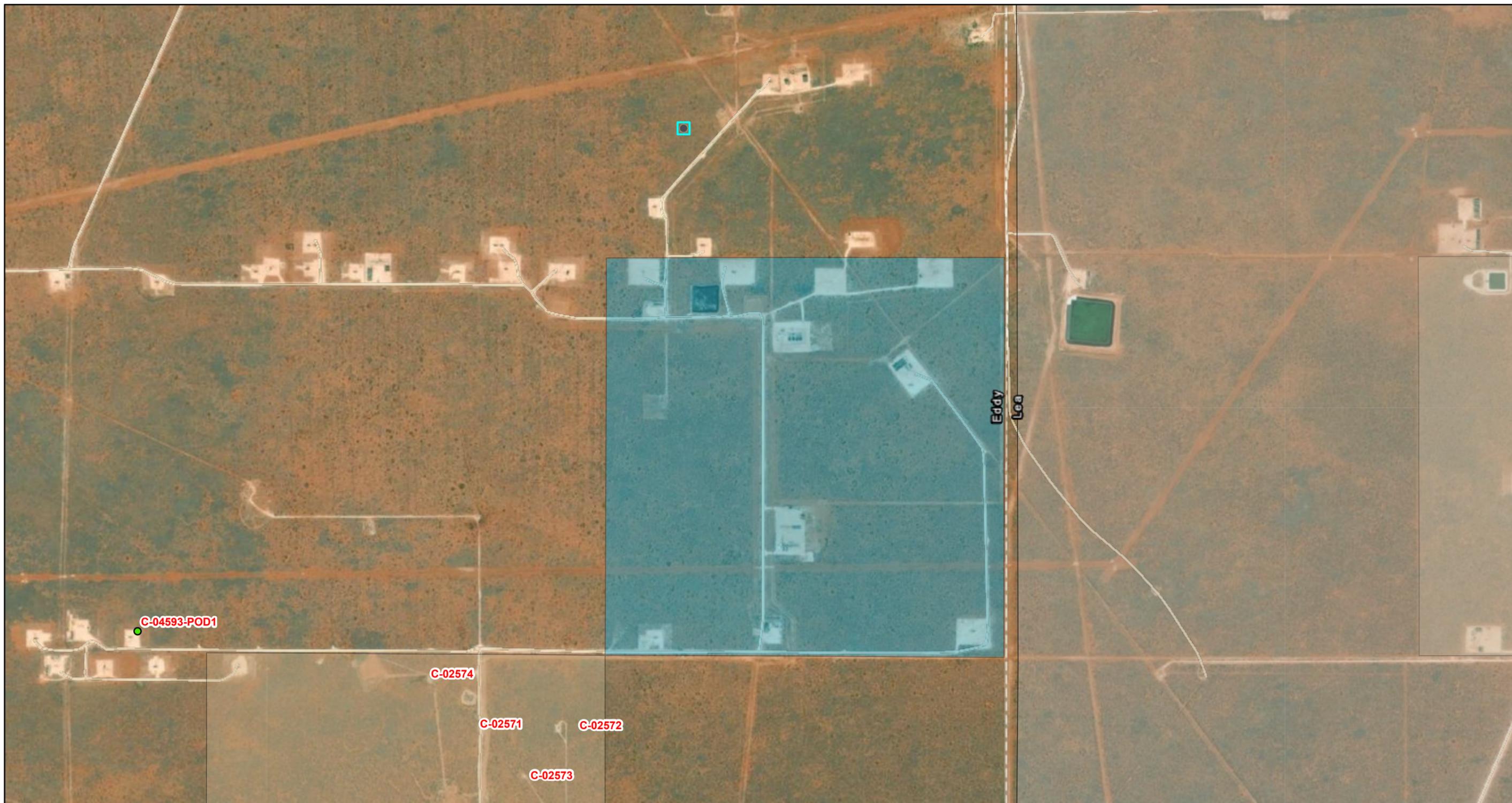
Acres	Diversion	CU	Use	Priority	Source Description
0	12		COM	12/08/1973	GW

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3/28/22 10:50 AM

WATER RIGHT SUMMARY

# OSE POD Locations Map



3/28/2022, 12:30:23 PM

GIS WATERS PODs

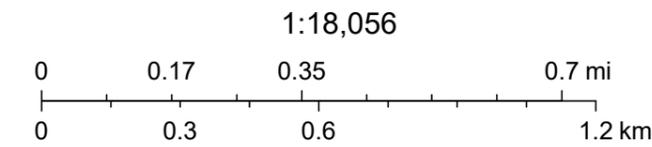
- Pending
- OSE District Boundary

Water Right Regulations

- Closure Area
- New Mexico State Trust Lands
- Subsurface Estate

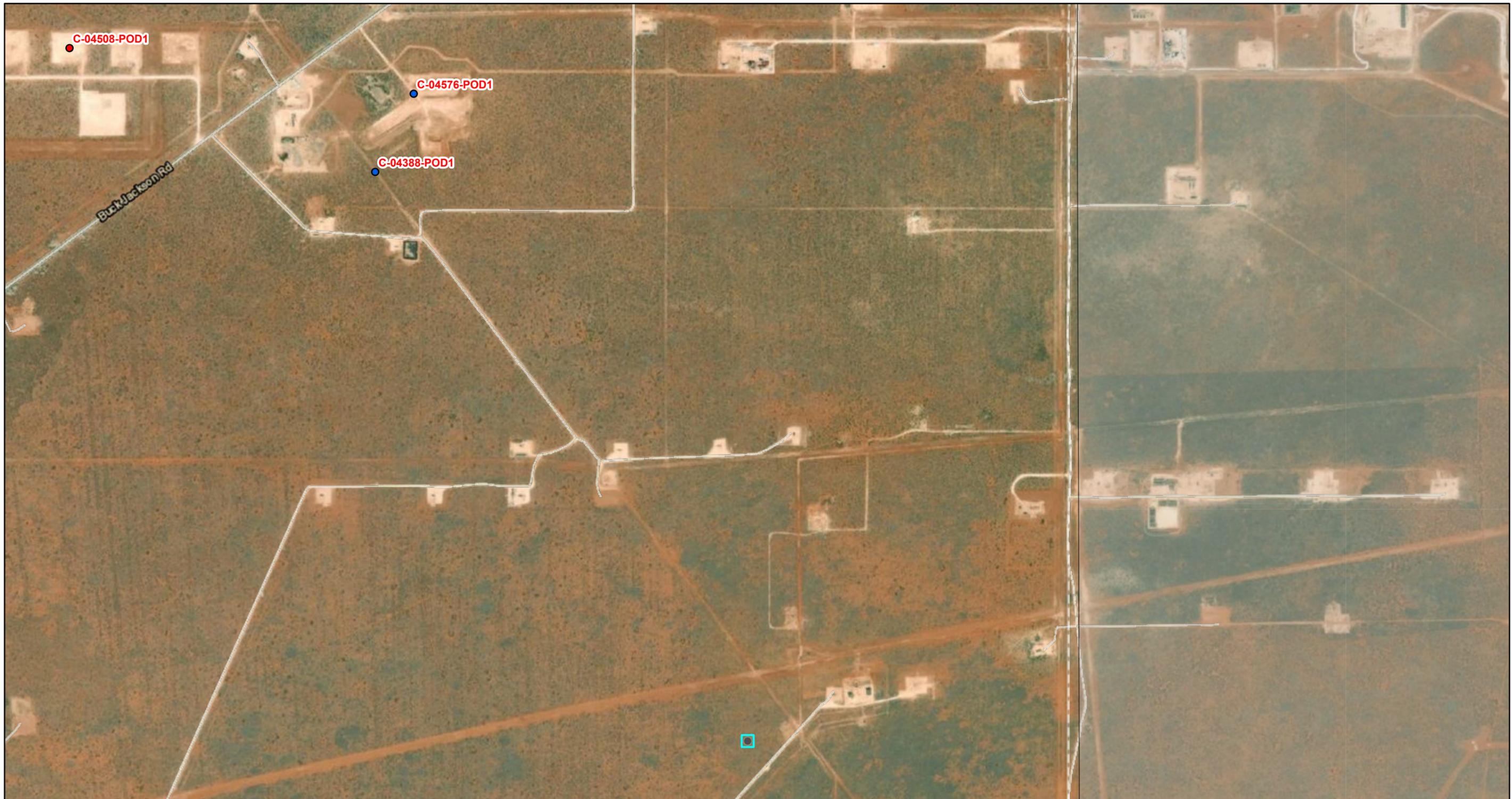
Both Estates

SiteBoundaries



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, U.S. Department of Energy Office of Legacy

# OSE POD Locations Map

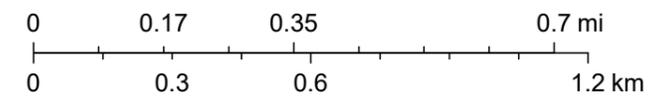


3/28/2022, 12:31:58 PM

GIS WATERS PODs

- OSE District Boundary
- Site Boundaries
- Active
- Plugged
- Water Right Regulations
- Closure Area

1:18,056



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, U.S. Department of Energy Office of Legacy



# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	(acre ft per annum)				County	POD Number	Well Tag	Code	Grant	Source	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)					(NAD83 UTM in meters)		Distance	
	Sub basin	Use	Diversion	Owner							q	q	q	q	X	Y			
<a href="#">C-02574</a>	CUB	COM	12	OXY USA INC	ED	<a href="#">C-02574</a>				Shallow	64	16	4	02	25S	31E	618092	3559494*	2441
<a href="#">C-02572</a>	CUB	COM	3	OXY USA INC	ED	<a href="#">C-02572</a>					4	2	2	02	25S	31E	618695	3559294*	2461
<a href="#">C-02571</a>	CUB	COM	3	OXY USA INC	ED	<a href="#">C-02571</a>				Shallow	4	1	2	02	25S	31E	618292	3559294*	2556
<a href="#">C-02573</a>	CUB	COM	3	OXY USA INC	ED	<a href="#">C-02573</a>					1	4	2	02	25S	31E	618499	3559091*	2697
<a href="#">C-04388</a>	C	DOM	1	TWIN WELLS RANCH LLC	ED	<a href="#">C-04388</a> <a href="#">POD1</a>	22333			Artesian	3	2	1	23	24S	31E	617546	3564006	2753
<a href="#">C-02568</a>	CUB	COM	3	BUREAU OF LAND MANAGEMENT	ED	<a href="#">C-02568</a>					4	3	1	01	25S	31E	619103	3558892*	2832
<a href="#">C-02569</a>	CUB	COM	12	BUREAU OF LAND MANAGEMENT	ED	<a href="#">C-02569</a>				Shallow	4	4	2	02	25S	31E	618699	3558891*	2859
<a href="#">C-04576</a>	CUB	EXP	0	TWIN WELLS RANCH LLC	ED	<a href="#">C-04576</a> <a href="#">POD1</a>	NA			Artesian	1	2	1	23	24S	31E	617699	3564324	2947
<a href="#">C-04593</a>	CUB	MON	0	DEVON ENERGY	ED	<a href="#">C-04593</a> <a href="#">POD1</a>	NA				3	4	4	34	24S	31E	616902	3559674	2994
<a href="#">C-02570</a>	CUB	COM	3	OXY USA INC	ED	<a href="#">C-02570</a>					4	2	4	02	25S	31E	618704	3558489*	3257
<a href="#">C-03830</a>	CUB	EXP	0	ROCKHOUSE RANCH INC	ED	<a href="#">C-03830</a> <a href="#">POD1</a>				Shallow	4	2	4	02	25S	31E	618632	3558432	3322
<a href="#">C-02020</a>	C	STK	3	BUREAU OF LAND MANAGEMENT	ED	<a href="#">C-02020</a>					4	4	28	24S	31E	615360	3561356*	3744	
<a href="#">C-04508</a>	CUB	MON	0	WSP USA	ED	<a href="#">C-04508</a> <a href="#">POD1</a>	NA				4	4	3	15	24S	31E	616298	3564493	3929
<a href="#">C-02245</a>	C	STK	3	JR ENGINEERING & CONST. CO.	ED	<a href="#">C-02245</a>					1	1	12	25S	31E	619018	3557785*	3939	
<a href="#">C-02021</a>	C	STK	3	BUREAU OF LAND MANAGEMENT	ED	<a href="#">C-02021</a>					1	2	28	24S	31E	614944	3562559*	4225	
<a href="#">C-02959</a>	C	STK	3	RICHARDSON CATTLE COMPANY	ED	<a href="#">C-02959</a>					1	3	2	33	24S	31E	614866	3560646*	4355
<a href="#">C-01914</a>	C	PRO	0	PERRY R BASS	ED	<a href="#">C-01914</a>					4	1	2	04	25S	31E	615064	3559275*	4708
<a href="#">C-03530</a>	C	STK	0	ANNETTE MCCLOY	LE	<a href="#">C-03530</a> <a href="#">POD1</a>					3	4	3	07	24S	32E	620886	3566156	4784
<a href="#">C-04220</a>	CUB	MON	0	CHEVRON N AMERICA EXPL & PROD	ED	<a href="#">C-04220</a> <a href="#">POD1</a>	NA				2	3	3	11	24S	31E	617401	3566340	4914

**Record Count:** 19

**UTM NAD83 Radius Search (in meters):**

**Easting (X):** 619086      **Northing (Y):** 3561724      **Radius:** 5000

**Sorted by:** Distance

\*UTM location was derived from PLSS - see Help

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# Wetland, 9829 feet



March 28, 2022

### Wetlands

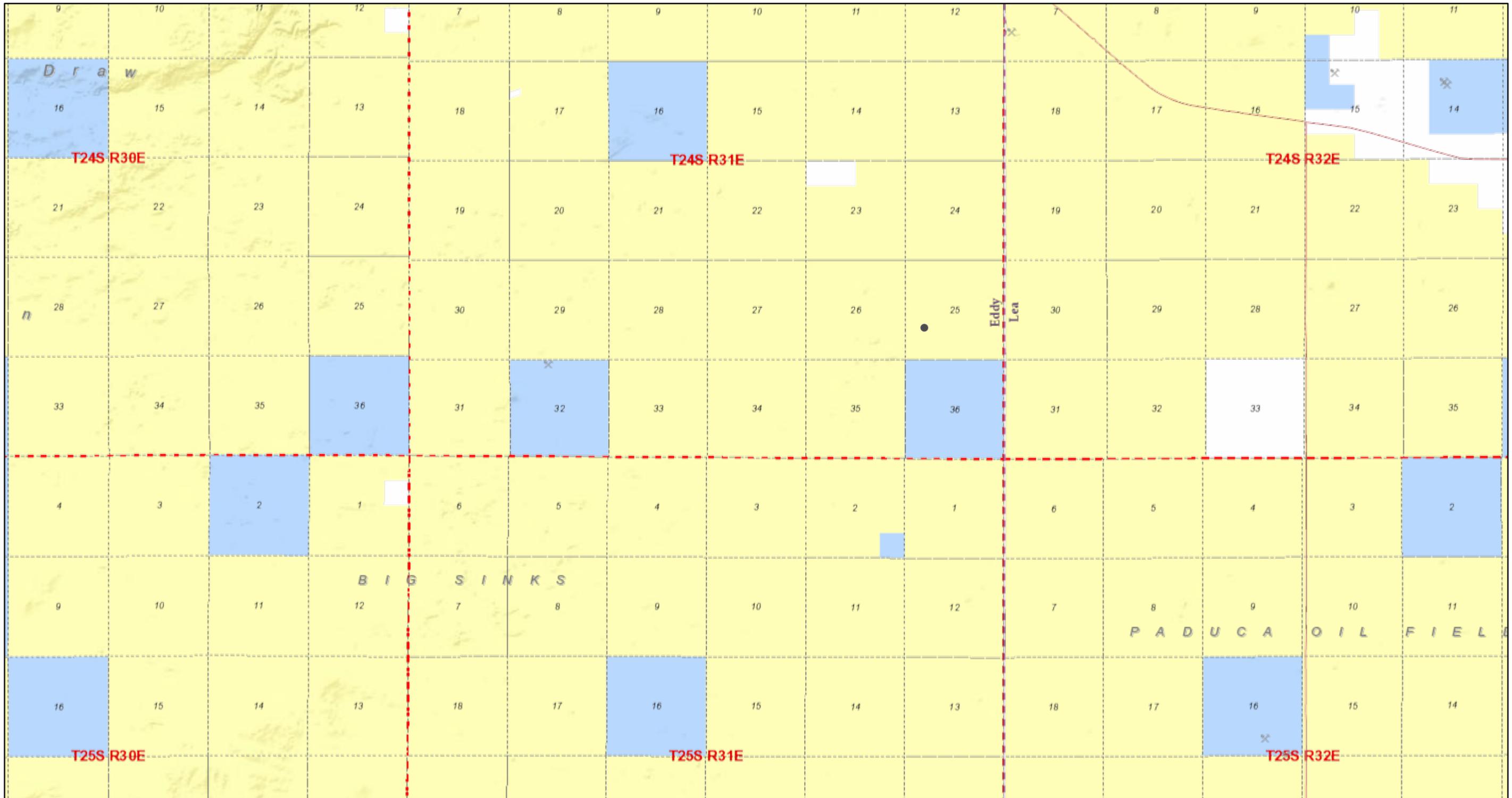
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- 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.

# Active Mines in New Mexico



3/28/2022, 1:02:49 PM

1:72,224

Township / Range

Sections

Land Ownership

Bureau of Land Management

Bureau of Reclamation

Department of Agriculture

Department of Defense

Department of Energy

National Park Service

Private Land

State Game and Fish

State Land

State Parks

Tribal

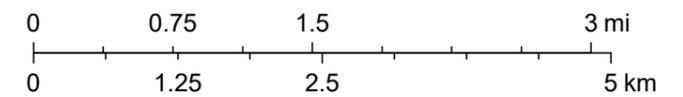
US Fish and Wildlife Service

US Forest Service

Registered Mines

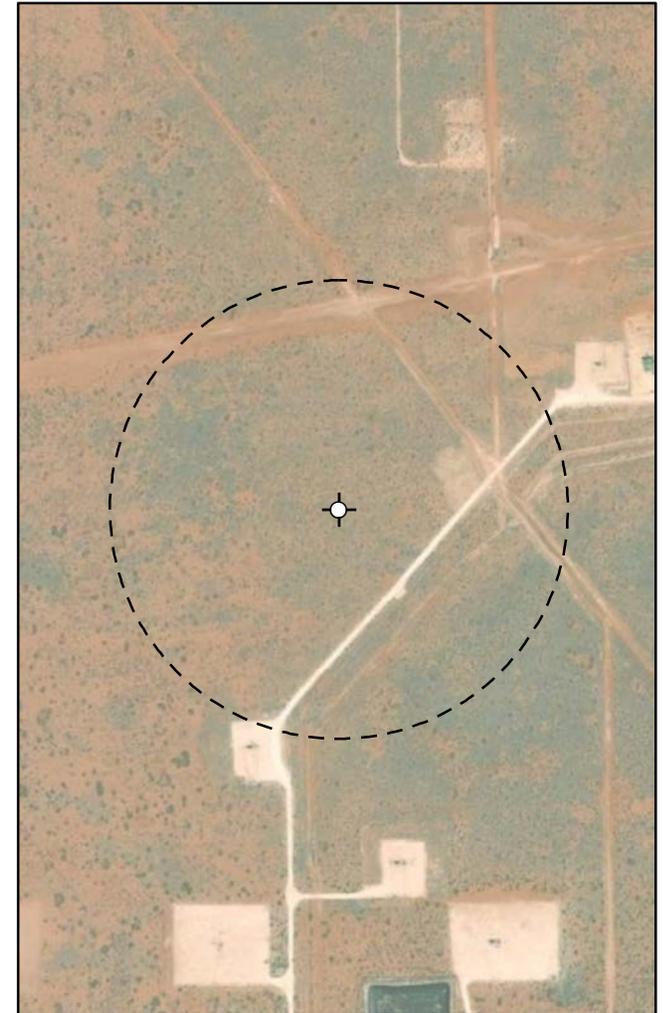
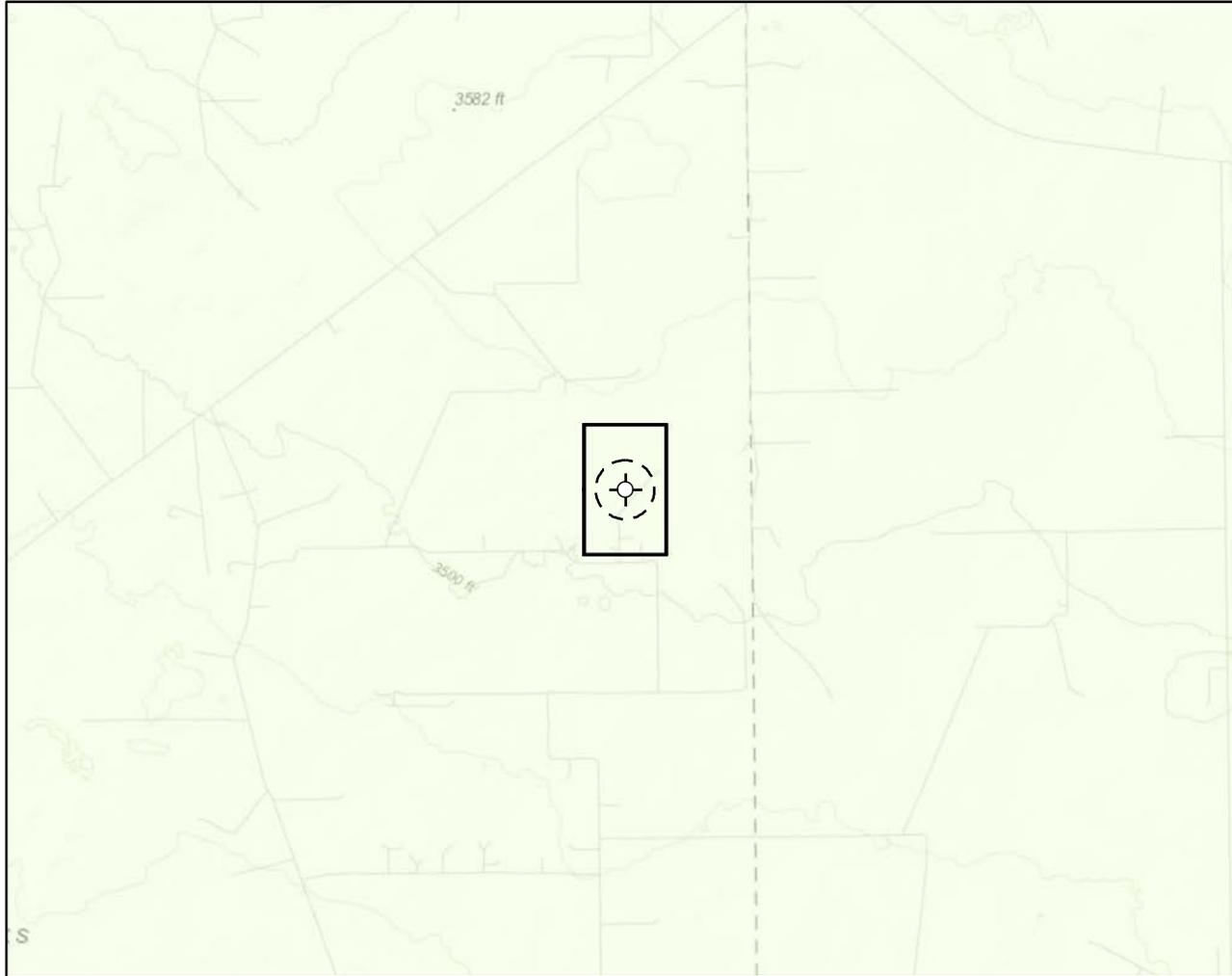
Aggregate, Stone etc.

Aggregate, Stone etc.



U.S. Bureau of Land Management - New Mexico State Office, Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

Document Path: G:\Projects\US PROJECTS\Devon Energy Corporation\2022\22E-00924 - Falcon Compressor Station\Figure X Karst Potential Schematic Falcon Compressor Station (22E-00924).mxd



**Karst Potential**

- Critical
- High
- Medium
- Low

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

**Overview Map**

0 0.25 0.5 1 mi

**Detail Map**

0 150 300 600 ft.



Map Center:  
Lat/Long: 32.185748, -103.736725

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



**Karst Potential Schematic  
Falcon Compressor Station**

FIGURE:

X



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

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

VERSATILITY. EXPERTISE.

# National Flood Hazard Layer FIRMette



103°44'31"W 32°11'24"N



## Legend

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

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

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

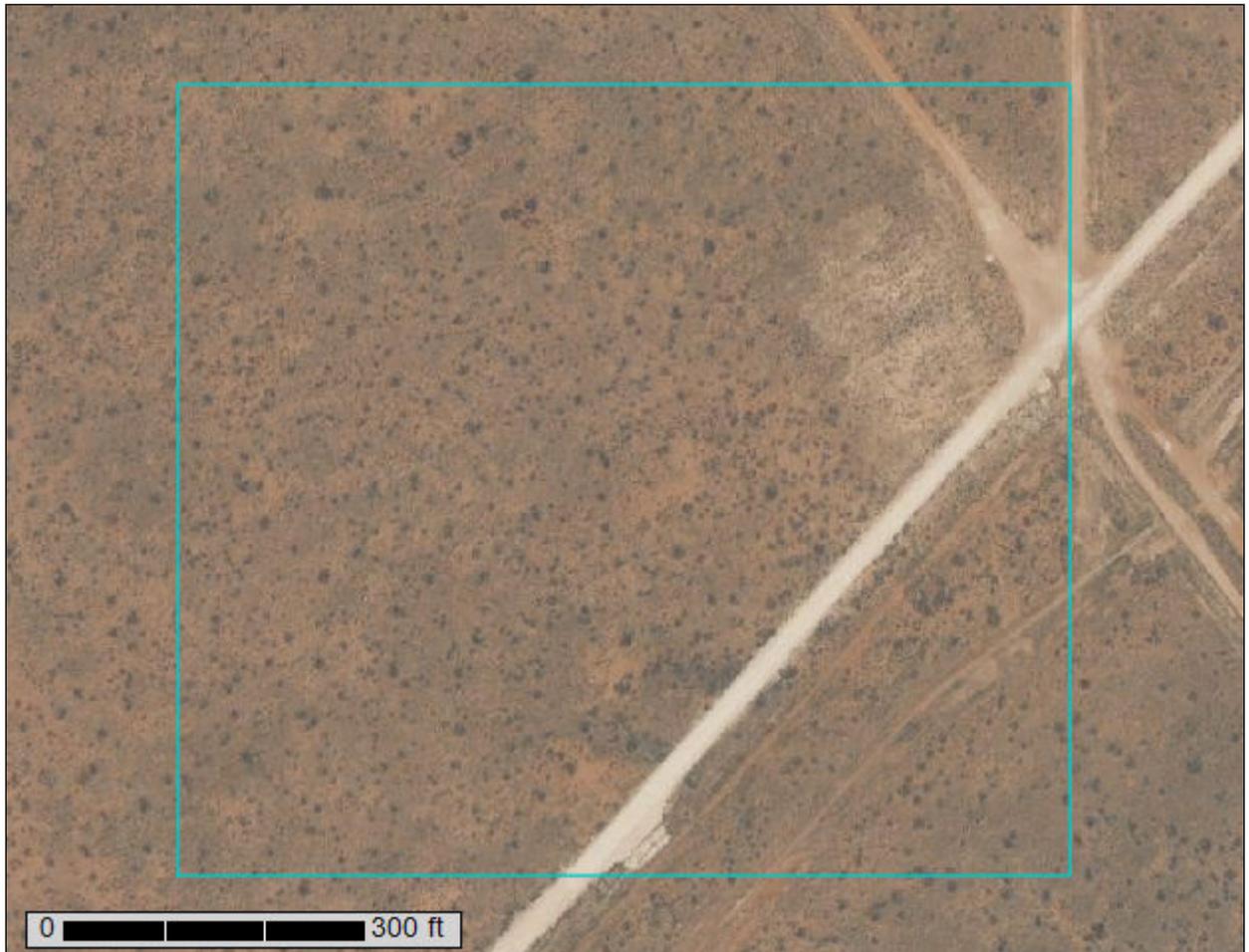
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/28/2022 at 2:05 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by 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.



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



March 28, 2022

# Preface

---

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

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

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist ([http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2\\_053951](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951)).

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

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

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

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## How Soil Surveys Are Made

---

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

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

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

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

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

## Custom Soil Resource Report

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

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

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

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

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

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

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

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

## Soil Map

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

### Custom Soil Resource Report Soil Map



Map Scale: 1:2,020 if printed on A landscape (11" x 8.5") sheet.

0 25 50 100 150 Meters

0 50 100 200 300 Feet

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

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**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 17, Sep 12, 2021

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

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

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

## Custom Soil Resource Report

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BB	Berino complex, 0 to 3 percent slopes, eroded	0.9	5.6%
PA	Pajarito loamy fine sand, 0 to 3 percent slopes, eroded	15.1	94.4%
<b>Totals for Area of Interest</b>		<b>16.0</b>	<b>100.0%</b>

## Map Unit Descriptions

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

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

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

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

## Custom Soil Resource Report

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

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

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

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

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

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

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

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

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

## Custom Soil Resource Report

**Eddy Area, New Mexico****BB—Berino complex, 0 to 3 percent slopes, eroded****Map Unit Setting**

*National map unit symbol:* 1w43  
*Elevation:* 2,000 to 5,700 feet  
*Mean annual precipitation:* 5 to 15 inches  
*Mean annual air temperature:* 57 to 70 degrees F  
*Frost-free period:* 180 to 260 days  
*Farmland classification:* Not prime farmland

**Map Unit Composition**

*Berino and similar soils:* 60 percent  
*Pajarito and similar soils:* 25 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Berino****Setting**

*Landform:* Plains, fan piedmonts  
*Landform position (three-dimensional):* Riser  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Mixed alluvium and/or eolian sands

**Typical profile**

*H1 - 0 to 17 inches:* fine sand  
*H2 - 17 to 58 inches:* sandy clay loam  
*H3 - 58 to 60 inches:* loamy sand

**Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high  
 (0.60 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 40 percent  
*Maximum salinity:* Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water supply, 0 to 60 inches:* Moderate (about 8.0 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* B  
*Ecological site:* R042XC003NM - Loamy Sand  
*Hydric soil rating:* No

## Custom Soil Resource Report

**Description of Pajarito****Setting**

*Landform:* Dunes, plains, interdunes  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Convex, linear  
*Parent material:* Mixed alluvium and/or eolian sands

**Typical profile**

*H1 - 0 to 9 inches:* loamy fine sand  
*H2 - 9 to 72 inches:* fine sandy loam

**Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* 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:* 40 percent  
*Maximum salinity:* Nonsaline (0.0 to 1.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water supply, 0 to 60 inches:* Moderate (about 8.0 inches)

**Interpretive groups**

*Land capability classification (irrigated):* 2e  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* A  
*Ecological site:* R042XC003NM - Loamy Sand  
*Hydric soil rating:* No

**Minor Components****Cacique**

*Percent of map unit:* 4 percent  
*Ecological site:* R042XC004NM - Sandy  
*Hydric soil rating:* No

**Wink**

*Percent of map unit:* 4 percent  
*Ecological site:* R042XC003NM - Loamy Sand  
*Hydric soil rating:* No

**Pajarito**

*Percent of map unit:* 4 percent  
*Ecological site:* R042XC003NM - Loamy Sand  
*Hydric soil rating:* No

**Kermit**

*Percent of map unit:* 3 percent  
*Ecological site:* R042XC005NM - Deep Sand  
*Hydric soil rating:* No

## Custom Soil Resource Report

**PA—Pajarito loamy fine sand, 0 to 3 percent slopes, eroded****Map Unit Setting**

*National map unit symbol:* 1w54  
*Elevation:* 2,700 to 5,500 feet  
*Mean annual precipitation:* 5 to 15 inches  
*Mean annual air temperature:* 57 to 70 degrees F  
*Frost-free period:* 180 to 250 days  
*Farmland classification:* Not prime farmland

**Map Unit Composition**

*Pajarito and similar soils:* 98 percent  
*Minor components:* 2 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Pajarito****Setting**

*Landform:* Plains, interdunes, dunes  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear, convex  
*Parent material:* Mixed alluvium and/or eolian sands

**Typical profile**

*H1 - 0 to 13 inches:* loamy fine sand  
*H2 - 13 to 36 inches:* fine sandy loam  
*H3 - 36 to 60 inches:* fine sandy loam

**Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* 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:* 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:* Moderate (about 7.9 inches)

**Interpretive groups**

*Land capability classification (irrigated):* 2e  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* A  
*Ecological site:* R042XC003NM - Loamy Sand

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*Hydric soil rating:* No

**Minor Components**

**Wink**

*Percent of map unit:* 1 percent

*Ecological site:* R042XC003NM - Loamy Sand

*Hydric soil rating:* No

**Berino**

*Percent of map unit:* 1 percent

*Ecological site:* R042XC003NM - Loamy Sand

*Hydric soil rating:* No

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## Ecological site R042XC003NM Loamy Sand

Accessed: 03/28/2022

### General information



**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

R042XC004NM	<b>Sandy</b> Sandy
R042XC005NM	<b>Deep Sand</b> Deep Sand

**Table 1. Dominant plant species**

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

### Physiographic features

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

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

**Table 2. Representative physiographic features**

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

### Climatic features

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

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes. The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.

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

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

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

**Table 3. Representative climatic features**

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

### Influencing water features

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

### Soil features

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

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

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

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

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

Characteristic soils are:

Maljamar  
Berino

Parjarito  
Palomas  
Wink  
Pyote

**Table 4. Representative soil features**

Surface texture	(1) Fine sand (2) Fine sandy loam (3) Loamy fine sand
Family particle size	(1) Sandy
Drainage class	Well drained to somewhat excessively drained
Permeability class	Moderate to moderately rapid
Soil depth	40–72 in
Surface fragment cover <=3"	0–10%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	5–7 in
Calcium carbonate equivalent (0-40in)	3–40%
Electrical conductivity (0-40in)	2–4 mmhos/cm
Sodium adsorption ratio (0-40in)	0–2
Soil reaction (1:1 water) (0-40in)	6.6–8.4
Subsurface fragment volume <=3" (Depth not specified)	4–12%
Subsurface fragment volume >3" (Depth not specified)	0%

## Ecological dynamics

### Overview

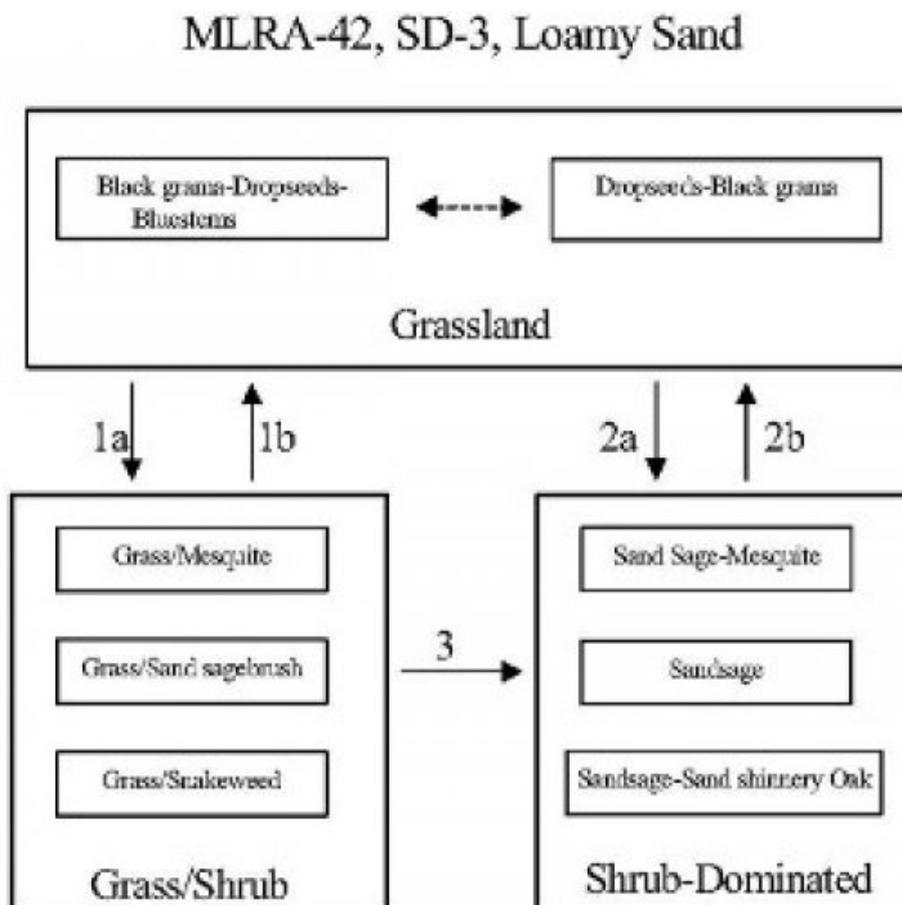
The Loamy Sand site intergrades with the Deep Sand and Sandy sites (SD-3). These sites can be differentiated by surface soil texture and depth to a textural change. Loamy Sand and Deep Sand sites have coarse textured (sands and loamy sand) surface soils while Sandy sites have moderately coarse textured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

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

dominated historic plant community.

**State and transition model**

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



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

Figure 4.

**State 1  
Historic Climax Plant Community**

**Community 1.1  
Historic Climax Plant Community**

Grassland: The historic plant community is a uniformly distributed grassland dominated by black grama, dropseeds, and bluestems. Sand sage and shinnery oak are evenly dispersed throughout the grassland due to the coarse soil surface texture. Perennial and annual forbs are common but their abundance and distribution are reflective of precipitation. Bluestems initially, followed by black grama, decrease with drought and heavy grazing intensity. Historical fire frequency is unknown but likely occurred enough to remove small shrubs to the competitive advantage of grass species. Fire suppression, drought conditions, and excessive grazing drive most grass species out of competition with shrub species.

Diagnosis: Grassland dominated by black grama, dropseeds, and bluestems. Shrubs, such as sand sage, shinnery oak, and mesquite are dispersed throughout the grassland. Forbs are present and populations fluctuate with precipitation variability.

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

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

**Table 6. Ground cover**

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

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

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

**State 2  
Grass/Shrub**

**Community 2.1  
Grass/Shrub**



**Grass/Shrub State:** The grass/shrub state is dominated by communities of grasses/mesquite, grasses/snakeweed, or grasses/sand sage. Decreases in black grama and bluestem species lead to an increase in bare patches and mesquite which further competes with grass species. An increase of dropseeds and threeawns occurs. Grass distribution becomes more patchy with an absence or severe decrease in black grama and bluestems. Mesquite provides nitrogen and soil organic matter to co-dominant grasses (Ansley and Jacoby 1998, Ansley et al. 1998). Mesquite mortality when exposed to fire is low due to aggressive resprouting abilities. Herbicide application combined with subsequent prescribed fire may be more effective in mesquite reduction (Britton and Wright 1971).

**Diagnosis:** This state is dominated by an increased abundance of communities including grass/mesquite, grass/snakeweed, or grass/sand sage. Dropseeds and threeawns have a patchy distribution.

**Transition to Grass/Shrub State (1a):** The historic plant community begins to shift toward the grass/shrub state as drivers such as drought, fire suppression, interspecific competition, and excessive grazing contribute to alterations in soil properties and herbaceous cover. Cover loss and surface soil erosion are initial indicators of transition followed by a decrease in black grama with a subsequent increase of dropseeds, threeawns, mesquite, and snakeweed. Snakeweed has been documented to outcompete black grama especially under conditions of fire suppression and drought (McDaniel et al. 1984).

Key indicators of approach to transition:

- Loss of black grama cover
- Surface soil erosion
- Bare patch expansion
- Increased dropseed/threeawn and mesquite, snakeweed, or sand sage abundances

**Transition to Historic Plant Community (1b):** Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community.

### **State 3 Shrub Dominated**

### Community 3.1 Shrub Dominated

Shrub-Dominated State: The shrub-dominated state results from a severe loss of grass cover. This state’s primary species is sand sage. Shinnery oak and mesquite also occur; however, grass cover is limited to intershrub distribution. Sand sage stabilizes light sandy soils from wind erosion, which enhances protected grass/forb cover (Davis and Bonham 1979). However, shinnery oak also responds to the sandy soils with dense stands due to an aggressive rhizome system. Shinnery oak’s extensive root system promotes competitive exclusion of grasses and forbs. Sand sage, shinnery oak, and mesquite can be controlled with herbicide (Herbel et al. 1979, Pettit 1986).

Transition to Shrub-Dominated (2a): Severe loss of grass species with increased erosion and fire suppression will result in a transition to a shrub-dominated state with sand sage, Shin oak, and honey mesquite directly from the grassland-dominated state.

Key indicators of approach to transition:

- Severe loss of grass species cover
- Surface soil erosion
- Bare patch expansion
- Increased sand sage, shinnery oak, and mesquite abundance

Transition to Historic Plant Community (2b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community. In addition, seeding with native grass species will augment the transition to a grassland-dominated state.

Transition to Shrub-Dominated (3): If the grass/shrub site continues to lose grass cover with soil erosion, the site will transition to a shrub-dominated state with sand sage, shinnery oak, and honey mesquite.

Key indicators of approach to transition:

- Continual loss of dropseeds/threawns cover
- Surface soil erosion
- Bare patch expansion
- Increased sand sage, shinnery oak, and mesquite/dropseed/threawn and mesquite/snakeweed abundance

### Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
<b>Grass/Grasslike</b>					
1	<b>Warm Season</b>			61–123	
	little bluestem	SCSC	<i>Schizachyrium scoparium</i>	61–123	–
2	<b>Warm Season</b>			37–61	
	sand bluestem	ANHA	<i>Andropogon hallii</i>	37–61	–
3	<b>Warm Season</b>			37–61	
	cane bluestem	BOBA3	<i>Bothriochloa barbinodis</i>	37–61	–
	silver bluestem	BOSA	<i>Bothriochloa saccharoides</i>	37–61	–
4	<b>Warm Season</b>			123–184	
	black grama	BOER4	<i>Bouteloua eriopoda</i>	123–184	–
	bush muhly	MUPO2	<i>Muhlenbergia porteri</i>	123–184	–
5	<b>Warm Season</b>			123–184	
	thin paspalum	PASE5	<i>Paspalum setaceum</i>	123–184	–

	prains bristlegress	SEVUZ	<i>Setaria vulpiseta</i>	123-184	-
	fringed signalgrass	URCI	<i>Urochloa ciliatissima</i>	123-184	-
6	<b>Warm Season</b>			123-184	
	spike dropseed	SPCO4	<i>Sporobolus contractus</i>	123-184	-
	sand dropseed	SPCR	<i>Sporobolus cryptandrus</i>	123-184	-
	mesa dropseed	SPFL2	<i>Sporobolus flexuosus</i>	123-184	-
7	<b>Warm Season</b>			61-123	
	hooded windmill grass	CHCU2	<i>Chloris cucullata</i>	61-123	-
	Arizona cottontop	DICA8	<i>Digitaria californica</i>	61-123	-
9	<b>Other Perennial Grasses</b>			37-61	
	Grass, perennial	2GP	<i>Grass, perennial</i>	37-61	-
<b>Shrub/Vine</b>					
8	<b>Warm Season</b>			37-61	
	New Mexico feathergrass	HENE5	<i>Hesperostipa neomexicana</i>	37-61	-
	giant dropseed	SPGI	<i>Sporobolus giganteus</i>	37-61	-
10	<b>Shrub</b>			61-123	
	sand sagebrush	ARFI2	<i>Artemisia filifolia</i>	61-123	-
	Havard oak	QUHA3	<i>Quercus havardii</i>	61-123	-
11	<b>Shrub</b>			34-61	
	fourwing saltbush	ATCA2	<i>Atriplex canescens</i>	37-61	-
	featherplume	DAFO	<i>Dalea formosa</i>	37-61	-
12	<b>Shrub</b>			37-61	
	jointfir	EPHED	<i>Ephedra</i>	37-61	-
	littleleaf ratany	KRER	<i>Krameria erecta</i>	37-61	-
13	<b>Other Shrubs</b>			37-61	
	Shrub (>.5m)	2SHRUB	<i>Shrub (&gt;.5m)</i>	37-61	-
<b>Forb</b>					
14	<b>Forb</b>			61-123	
	leatherweed	CRPOP	<i>Croton pottsii var. pottsii</i>	61-123	-
	Indian blanket	GAPU	<i>Gaillardia pulchella</i>	61-123	-
	globemallow	SPHAE	<i>Sphaeralcea</i>	61-123	-
15	<b>Forb</b>			12-37	
	woolly groundsel	PACA15	<i>Packera cana</i>	12-37	-
16	<b>Forb</b>			61-123	
	touristplant	DIWI2	<i>Dimorphocarpa wislizeni</i>	61-123	-
	woolly plantain	PLPA2	<i>Plantago patagonica</i>	61-123	-
17	<b>Other Forbs</b>			37-61	
	Forb (herbaceous, not grass nor grass-like)	2FORB	<i>Forb (herbaceous, not grass nor grass-like)</i>	37-61	-

## Animal community

This Ecological Site provides habitat which supports a resident animal community that is characterized by pronghorn antelope, desert cottontail, spotted ground squirrel, black-tailed prairie dog, yellow faced pocket gopher, Ord's kangaroo rat, northern grasshopper mouse, southern plains woodrat, badger, roadrunner, meadowlark, burrowing owl, white necked raven, lesser prairie chicken, morning dove, scaled quail, Harris hawk, side blotched

lizard, marbled whiptail, Texas horned lizard, western diamondback rattlesnake, dusty hognose snake and ornate box turtle.

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

## Hydrological functions

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

Hydrologic Interpretations

Soil Series Hydrologic Group

Berino B

Kinco A

Maljamar B

Pajarito B

Palomas B

Wink B

Pyote A

## Recreational uses

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

## Wood products

This site has no potential for wood products.

## Other products

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

## Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month

Similarity Index Ac/AUM

100 - 76 2.3 – 3.5

75 – 51 3.0 – 4.5

50 – 26 4.6 – 9.0

25 – 0 9.1 +

## Inventory data references

Data collection for this site was done in conjunction with the progressive soil surveys within the Southern Desertic Basins, Plains and Mountains, Major Land Resource Areas of New Mexico. This site has been mapped and correlated with soils in the following soil surveys. Eddy County, Lea County, and Chaves County.

## Other references

Literature Cited:

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

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

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

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

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

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

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

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

**Contributors**

Don Sylvester  
Quinn Hodgson

**Rangeland health reference sheet**

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

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

**Indicators**

1. **Number and extent of rills:**

2. **Presence of water flow patterns:**

---

3. **Number and height of erosional pedestals or terracettes:**

---

4. **Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):**

---

5. **Number of gullies and erosion associated with gullies:**

---

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

---

7. **Amount of litter movement (describe size and distance expected to travel):**

---

8. **Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values):**

---

9. **Soil surface structure and SOM content (include type of structure and A-horizon color and thickness):**

---

10. **Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff:**

---

11. **Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site):**

---

12. **Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or live foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):**

Dominant:

Sub-dominant:

Other:

Additional:

---

13. **Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence):**

---

14. **Average percent litter cover (%) and depth ( in):**

---

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

---

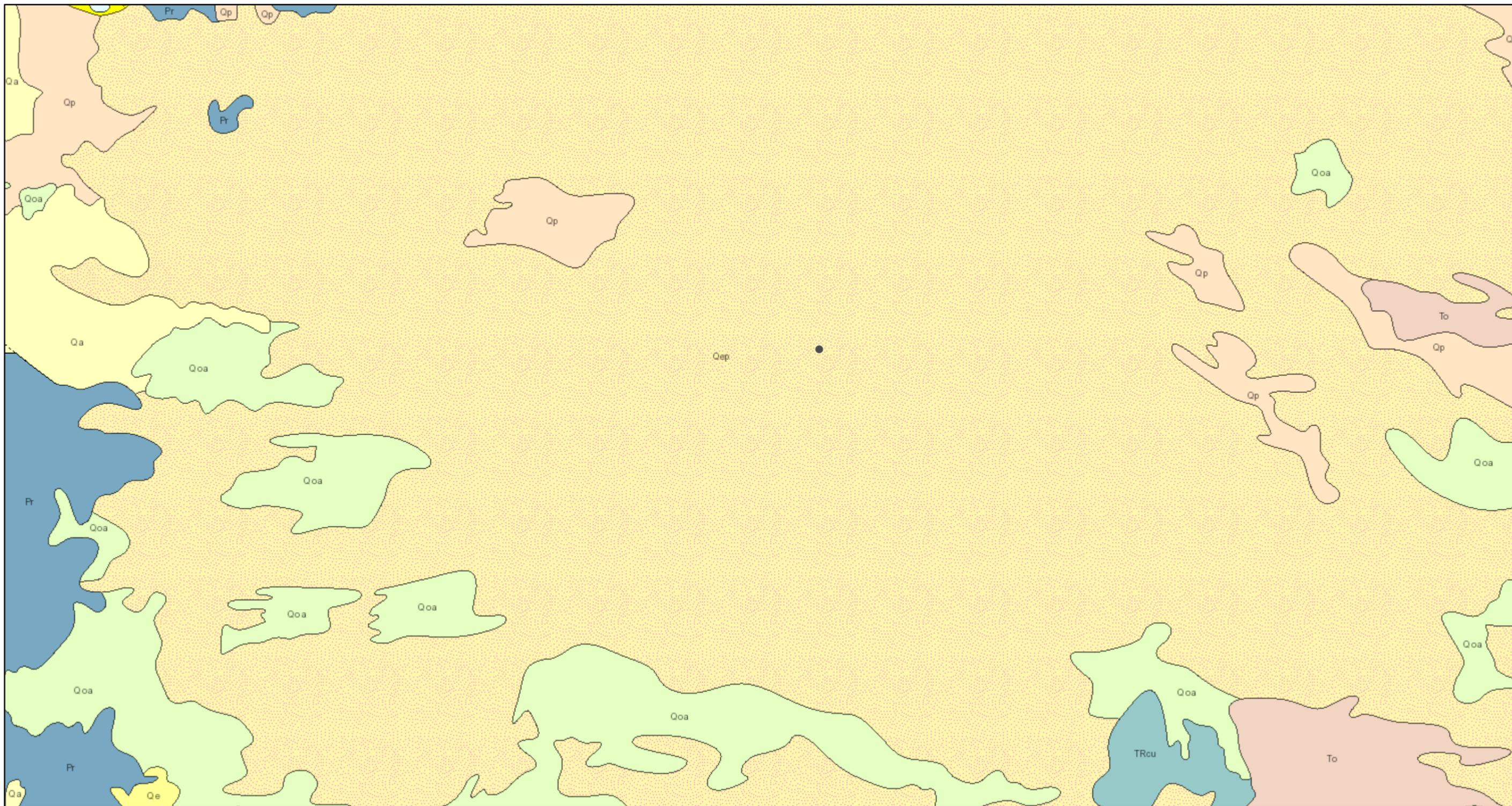
16. **Potential invasive (including noxious) species (native and non-native). List species which BOTH characterize degraded states and have the potential to become a dominant or co-dominant species on the ecological site if their future establishment and growth is not actively controlled by management interventions. Species that become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not invasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state for the ecological site:**

---

17. **Perennial plant reproductive capability:**

---

# ArcGIS Web Map



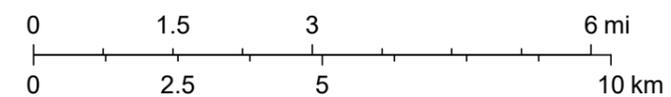
3/28/2022, 1:20:37 PM

1:144,448

### Lithologic Units

- Playa—Alluvium and evaporite deposits (Holocene)
- Water—Perennial 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)



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

**ATTACHMENT 6**

**From:** [Bratcher, Mike, EMNRD](#)  
**To:** [Dhugal Hanton](#); [Enviro, OCD, EMNRD](#); [CFO\\_Spill, BLM, NM](#); [Hamlet, Robert, EMNRD](#)  
**Cc:** [Brandon Schafer](#); [dale.woodall@dvn.com](mailto:dale.woodall@dvn.com)  
**Subject:** RE: [EXTERNAL] Triethylene Glycol Release - nAPP2206735499 - Falcon Compressor Station  
**Date:** Wednesday, March 9, 2022 3:25:45 PM

---

Brandon,

The Division does not have a set parameter for TEG. It would fall under [19.15.29.11](#) A.5 (e) of the spill rule if you wanted to go that route, but the short answer is to just remove it all, as is practicable. If the release was off pad, the top 4' of soil has to be "non-waste" containing, which once the TEG hits the ground, it is considered waste.

Hope this helps.

**Mike Bratcher** • Incident Supervisor  
Environmental Bureau  
EMNRD - Oil Conservation Division  
811S. First St. | Artesia, NM 88210  
(575) 626-0857 | [mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Dhugal Hanton <vertexresourcegroupusa@gmail.com>  
**Sent:** Wednesday, March 9, 2022 12:50 PM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>; CFO\_Spill, BLM\_NM <blm\_nm\_cfo\_spill@blm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>  
**Cc:** bschafer@vertex.ca; dale.woodall@dvn.com; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>  
**Subject:** [EXTERNAL] Triethylene Glycol Release - nAPP2206735499 - Falcon Compressor Station

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

Hi All,

On behalf of Devon Energy, Vertex would like to begin characterization of the following release but, we would like input from the Division:

Site: Falcon Compressor Station (Eddy County) Incident #: nAPP2206735499 DOR: 3/5/2022

**Material: Triethylene Glycol (TEG)**

Is there an established remediation limit the Division has previously used for TEG? Our preferred lab can test for it but, we cannot field screen for it.

Triethylene Glycol is not listed in Table 1 of [19.15.29.12](#) NMAC, Table 1 of 40 C.F.R. 261.24(b), or the Risk Assessment Guidance for Site Investigations and Remediation Volumes 1 and 2. SDS information is attached.

Our plan, if agreeable to the Division, is to delineate based on chlorides, BTEX and TPH field screen values and have the lab analyze for TEG as well as the other 3 analytes. Based on the Division's remediation limit and lab results, we would continue to delineate if the samples were above criteria or begin the remediation process.

DTGW information: No wells are currently known within 0.5 miles - an NMOSE well search is attached.

Thank you,

**Brandon Schafer**  
Project Manager

Vertex Resource Services Inc.

P 701.645.3111 Ext. 706  
C 701.301.1564  
F 780.464.3731

[www.vertex.ca](http://www.vertex.ca)

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## Monica Peppin

---

**From:** Dhugal Hanton <vertexresourcegroupusa@gmail.com>  
**Sent:** Friday, July 22, 2022 9:35 AM  
**To:** CFO\_Spill, BLM\_NM; Enviro, OCD, EMNRD  
**Cc:** Bratcher, Mike, EMNRD; dale.woodall@dvn.com; Monica Peppin  
**Subject:** nAPP2206735499/nAPP2204725407 48 HR Confirmation Sampling Notification

All,

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

nAPP2205735499 DOR: 03/05/2022 Site Name: Falcon Compressor Station  
nAPP2204725407 DOR: 02/14/2022

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

On Wednesday, July 27, 2022 at approximately 8:00 a.m., McKitrick Wier will be on site to conduct additional confirmatory sampling for the above releases and will be continuous through Friday, July 29, 2022. He can be reached at 575-361-9639. If you need directions to the site, please do not hesitate to contact him.

Thank you,

**Monica Peppin**  
Project Manager

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

**P 575.725.5001 Ext. 711**  
**C 575.361.9880**  
**F**

[www.vertex.ca](http://www.vertex.ca)

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## Monica Peppin

---

**From:** Dhugal Hanton <vertexresourcegroupusa@gmail.com>  
**Sent:** August 30, 2022 11:31 AM  
**To:** Nobui, Jennifer, EMNRD; Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD;  
dale.woodall@dvn.com; Mathews, Wesley  
**Cc:** Monica Peppin; mmoffit@vertex.ca  
**Subject:** 48 hour notification-Falcon Compressor station confirmation sampling

All,

Please accept this email as notification that Vertex Resource Services has scheduled a confirmation sampling event to be conducted at the following release:

nAPP 2206735499,

Falcon Compressor Station

On Thursday, September 1, 2022, at approximately 1:00 p.m., Monica Peppin will be on-site to conduct confirmation sampling. The sampling will continue through Friday September 2, 2022. She can be reached at 575-361-9880. If you need directions to the site, please do not hesitate to contact her. If you have any questions regarding this notification, please call Kent Stallings at 346-814-1413.

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**

## **ATTACHMENT 7**



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

June 21, 2022

Monica Peppin

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

RE: Falcon Compressor Station

OrderNo.: 2206705

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 16 sample(s) on 6/14/2022 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order **2206705**

Date Reported: **6/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-01 0'

**Project:** Falcon Compressor Station

**Collection Date:** 6/11/2022 8:25:00 AM

**Lab ID:** 2206705-001

**Matrix:** SOIL

**Received Date:** 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	25	15		mg/Kg	1	6/16/2022 10:40:57 AM
Motor Oil Range Organics (MRO)	520	50		mg/Kg	1	6/16/2022 10:40:57 AM
Surr: DNOP	96.0	51.1-141		%Rec	1	6/16/2022 10:40:57 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/15/2022 1:59:53 PM
Surr: BFB	96.3	37.7-212		%Rec	1	6/15/2022 1:59:53 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	6/15/2022 1:59:53 PM
Toluene	ND	0.050		mg/Kg	1	6/15/2022 1:59:53 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/15/2022 1:59:53 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/15/2022 1:59:53 PM
Surr: 4-Bromofluorobenzene	91.2	70-130		%Rec	1	6/15/2022 1:59:53 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	ND	59		mg/Kg	20	6/16/2022 2:20:23 AM

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

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

**Analytical Report**

Lab Order **2206705**

Date Reported: **6/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-01 2'

**Project:** Falcon Compressor Station

**Collection Date:** 6/11/2022 8:30:00 AM

**Lab ID:** 2206705-002

**Matrix:** SOIL

**Received Date:** 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/16/2022 5:56:35 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/16/2022 5:56:35 PM
Surr: DNOP	102	51.1-141		%Rec	1	6/16/2022 5:56:35 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2022 3:11:39 PM
Surr: BFB	101	37.7-212		%Rec	1	6/15/2022 3:11:39 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	6/15/2022 3:11:39 PM
Toluene	ND	0.049		mg/Kg	1	6/15/2022 3:11:39 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/15/2022 3:11:39 PM
Xylenes, Total	ND	0.098		mg/Kg	1	6/15/2022 3:11:39 PM
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	6/15/2022 3:11:39 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	ND	59		mg/Kg	20	6/16/2022 2:57:26 AM

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

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

**Analytical Report**

Lab Order **2206705**

Date Reported: **6/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-02 0'

**Project:** Falcon Compressor Station

**Collection Date:** 6/11/2022 8:45:00 AM

**Lab ID:** 2206705-003

**Matrix:** SOIL

**Received Date:** 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/16/2022 11:02:26 AM
Motor Oil Range Organics (MRO)	140	49		mg/Kg	1	6/16/2022 11:02:26 AM
Surr: DNOP	117	51.1-141		%Rec	1	6/16/2022 11:02:26 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/15/2022 3:59:32 PM
Surr: BFB	99.8	37.7-212		%Rec	1	6/15/2022 3:59:32 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	6/15/2022 3:59:32 PM
Toluene	ND	0.050		mg/Kg	1	6/15/2022 3:59:32 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/15/2022 3:59:32 PM
Xylenes, Total	ND	0.099		mg/Kg	1	6/15/2022 3:59:32 PM
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	6/15/2022 3:59:32 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	ND	59		mg/Kg	20	6/16/2022 3:09:47 AM

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

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

**Analytical Report**

Lab Order **2206705**

Date Reported: **6/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-02 2'

**Project:** Falcon Compressor Station

**Collection Date:** 6/11/2022 8:55:00 AM

**Lab ID:** 2206705-004

**Matrix:** SOIL

**Received Date:** 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/16/2022 11:13:12 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/16/2022 11:13:12 AM
Surr: DNOP	111	51.1-141		%Rec	1	6/16/2022 11:13:12 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2022 4:23:26 PM
Surr: BFB	98.8	37.7-212		%Rec	1	6/15/2022 4:23:26 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	6/15/2022 4:23:26 PM
Toluene	ND	0.049		mg/Kg	1	6/15/2022 4:23:26 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/15/2022 4:23:26 PM
Xylenes, Total	ND	0.098		mg/Kg	1	6/15/2022 4:23:26 PM
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	1	6/15/2022 4:23:26 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	6/16/2022 3:22:07 AM

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

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

**Analytical Report**

Lab Order **2206705**

Date Reported: **6/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-03 0'

**Project:** Falcon Compressor Station

**Collection Date:** 6/11/2022 9:00:00 AM

**Lab ID:** 2206705-005

**Matrix:** SOIL

**Received Date:** 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/16/2022 11:55:57 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/16/2022 11:55:57 AM
Surr: DNOP	78.3	51.1-141		%Rec	1	6/16/2022 11:55:57 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2022 4:47:28 PM
Surr: BFB	96.6	37.7-212		%Rec	1	6/15/2022 4:47:28 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	6/15/2022 4:47:28 PM
Toluene	ND	0.049		mg/Kg	1	6/15/2022 4:47:28 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/15/2022 4:47:28 PM
Xylenes, Total	ND	0.098		mg/Kg	1	6/15/2022 4:47:28 PM
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	6/15/2022 4:47:28 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	6/16/2022 3:34:28 AM

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

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

**Analytical Report**

Lab Order **2206705**

Date Reported: **6/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-03 2'

**Project:** Falcon Compressor Station

**Collection Date:** 6/11/2022 9:05:00 AM

**Lab ID:** 2206705-006

**Matrix:** SOIL

**Received Date:** 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/16/2022 12:06:40 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/16/2022 12:06:40 PM
Surr: DNOP	92.0	51.1-141		%Rec	1	6/16/2022 12:06:40 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/15/2022 5:11:30 PM
Surr: BFB	99.5	37.7-212		%Rec	1	6/15/2022 5:11:30 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	6/15/2022 5:11:30 PM
Toluene	ND	0.048		mg/Kg	1	6/15/2022 5:11:30 PM
Ethylbenzene	ND	0.048		mg/Kg	1	6/15/2022 5:11:30 PM
Xylenes, Total	ND	0.097		mg/Kg	1	6/15/2022 5:11:30 PM
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	6/15/2022 5:11:30 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	6/16/2022 4:11:30 AM

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

**Qualifiers:**

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

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

**Analytical Report**

Lab Order **2206705**

Date Reported: **6/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-04 0'

**Project:** Falcon Compressor Station

**Collection Date:** 6/11/2022 9:15:00 AM

**Lab ID:** 2206705-007

**Matrix:** SOIL

**Received Date:** 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/16/2022 12:17:31 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/16/2022 12:17:31 PM
Surr: DNOP	114	51.1-141		%Rec	1	6/16/2022 12:17:31 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/15/2022 5:35:32 PM
Surr: BFB	99.0	37.7-212		%Rec	1	6/15/2022 5:35:32 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	6/15/2022 5:35:32 PM
Toluene	ND	0.050		mg/Kg	1	6/15/2022 5:35:32 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/15/2022 5:35:32 PM
Xylenes, Total	ND	0.099		mg/Kg	1	6/15/2022 5:35:32 PM
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	6/15/2022 5:35:32 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	96	60		mg/Kg	20	6/16/2022 4:23:50 AM

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

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

**Analytical Report**

Lab Order **2206705**

Date Reported: **6/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-04 2'

**Project:** Falcon Compressor Station

**Collection Date:** 6/11/2022 9:20:00 AM

**Lab ID:** 2206705-008

**Matrix:** SOIL

**Received Date:** 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/16/2022 12:28:24 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/16/2022 12:28:24 PM
Surr: DNOP	91.8	51.1-141		%Rec	1	6/16/2022 12:28:24 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/15/2022 5:59:38 PM
Surr: BFB	99.7	37.7-212		%Rec	1	6/15/2022 5:59:38 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	6/15/2022 5:59:38 PM
Toluene	ND	0.050		mg/Kg	1	6/15/2022 5:59:38 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/15/2022 5:59:38 PM
Xylenes, Total	ND	0.099		mg/Kg	1	6/15/2022 5:59:38 PM
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	6/15/2022 5:59:38 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	6/16/2022 4:36:11 AM

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

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

**Analytical Report**

Lab Order **2206705**

Date Reported: **6/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-05 0'

**Project:** Falcon Compressor Station

**Collection Date:** 6/11/2022 9:25:00 AM

**Lab ID:** 2206705-009

**Matrix:** SOIL

**Received Date:** 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/16/2022 12:39:17 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/16/2022 12:39:17 PM
Surr: DNOP	80.3	51.1-141		%Rec	1	6/16/2022 12:39:17 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2022 6:23:37 PM
Surr: BFB	104	37.7-212		%Rec	1	6/15/2022 6:23:37 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	6/15/2022 6:23:37 PM
Toluene	ND	0.049		mg/Kg	1	6/15/2022 6:23:37 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/15/2022 6:23:37 PM
Xylenes, Total	ND	0.098		mg/Kg	1	6/15/2022 6:23:37 PM
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	6/15/2022 6:23:37 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	6/16/2022 4:48:31 AM

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

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

**Analytical Report**

Lab Order **2206705**

Date Reported: **6/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-05 2'

**Project:** Falcon Compressor Station

**Collection Date:** 6/11/2022 9:35:00 AM

**Lab ID:** 2206705-010

**Matrix:** SOIL

**Received Date:** 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/16/2022 12:50:08 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/16/2022 12:50:08 PM
Surr: DNOP	106	51.1-141		%Rec	1	6/16/2022 12:50:08 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2022 6:47:39 PM
Surr: BFB	101	37.7-212		%Rec	1	6/15/2022 6:47:39 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	6/15/2022 6:47:39 PM
Toluene	ND	0.049		mg/Kg	1	6/15/2022 6:47:39 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/15/2022 6:47:39 PM
Xylenes, Total	ND	0.097		mg/Kg	1	6/15/2022 6:47:39 PM
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	6/15/2022 6:47:39 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	6/16/2022 5:00:53 AM

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

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

**Analytical Report**

Lab Order **2206705**

Date Reported: **6/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-06 0'

**Project:** Falcon Compressor Station

**Collection Date:** 6/11/2022 9:40:00 AM

**Lab ID:** 2206705-011

**Matrix:** SOIL

**Received Date:** 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/16/2022 1:01:00 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/16/2022 1:01:00 PM
Surr: DNOP	94.2	51.1-141		%Rec	1	6/16/2022 1:01:00 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2022 7:11:39 PM
Surr: BFB	102	37.7-212		%Rec	1	6/15/2022 7:11:39 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	6/15/2022 7:11:39 PM
Toluene	ND	0.049		mg/Kg	1	6/15/2022 7:11:39 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/15/2022 7:11:39 PM
Xylenes, Total	ND	0.098		mg/Kg	1	6/15/2022 7:11:39 PM
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	6/15/2022 7:11:39 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	74	60		mg/Kg	20	6/16/2022 5:13:13 AM

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

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

**Analytical Report**

Lab Order **2206705**

Date Reported: **6/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-06 2'

**Project:** Falcon Compressor Station

**Collection Date:** 6/11/2022 9:50:00 AM

**Lab ID:** 2206705-012

**Matrix:** SOIL

**Received Date:** 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/16/2022 1:11:50 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/16/2022 1:11:50 PM
Surr: DNOP	110	51.1-141		%Rec	1	6/16/2022 1:11:50 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2022 7:35:34 PM
Surr: BFB	99.9	37.7-212		%Rec	1	6/15/2022 7:35:34 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	6/15/2022 7:35:34 PM
Toluene	ND	0.049		mg/Kg	1	6/15/2022 7:35:34 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/15/2022 7:35:34 PM
Xylenes, Total	ND	0.099		mg/Kg	1	6/15/2022 7:35:34 PM
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	6/15/2022 7:35:34 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	64	60		mg/Kg	20	6/16/2022 5:25:34 AM

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

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

**Analytical Report**

Lab Order **2206705**

Date Reported: **6/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-07 0'

**Project:** Falcon Compressor Station

**Collection Date:** 6/11/2022 12:40:00 PM

**Lab ID:** 2206705-013

**Matrix:** SOIL

**Received Date:** 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	28	15		mg/Kg	1	6/16/2022 1:22:41 PM
Motor Oil Range Organics (MRO)	400	51		mg/Kg	1	6/16/2022 1:22:41 PM
Surr: DNOP	97.2	51.1-141		%Rec	1	6/16/2022 1:22:41 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/15/2022 9:58:20 PM
Surr: BFB	96.4	37.7-212		%Rec	1	6/15/2022 9:58:20 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	6/15/2022 9:58:20 PM
Toluene	ND	0.050		mg/Kg	1	6/15/2022 9:58:20 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/15/2022 9:58:20 PM
Xylenes, Total	ND	0.099		mg/Kg	1	6/15/2022 9:58:20 PM
Surr: 4-Bromofluorobenzene	91.7	70-130		%Rec	1	6/15/2022 9:58:20 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	6/16/2022 5:37:54 AM

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

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

**Analytical Report**

Lab Order **2206705**

Date Reported: **6/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-07 2'

**Project:** Falcon Compressor Station

**Collection Date:** 6/11/2022 12:50:00 PM

**Lab ID:** 2206705-014

**Matrix:** SOIL

**Received Date:** 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/16/2022 6:44:09 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/16/2022 6:44:09 PM
Surr: DNOP	97.5	51.1-141		%Rec	1	6/16/2022 6:44:09 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/15/2022 10:21:56 PM
Surr: BFB	97.6	37.7-212		%Rec	1	6/15/2022 10:21:56 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	6/15/2022 10:21:56 PM
Toluene	ND	0.050		mg/Kg	1	6/15/2022 10:21:56 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/15/2022 10:21:56 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/15/2022 10:21:56 PM
Surr: 4-Bromofluorobenzene	93.9	70-130		%Rec	1	6/15/2022 10:21:56 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	6/16/2022 12:05:39 PM

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

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

**Analytical Report**

Lab Order **2206705**

Date Reported: **6/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-08 0'

**Project:** Falcon Compressor Station

**Collection Date:** 6/11/2022 1:00:00 PM

**Lab ID:** 2206705-015

**Matrix:** SOIL

**Received Date:** 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	1800	1500		mg/Kg	100	6/16/2022 7:07:57 PM
Motor Oil Range Organics (MRO)	28000	5000		mg/Kg	100	6/16/2022 7:07:57 PM
Surr: DNOP	0	51.1-141	S	%Rec	100	6/16/2022 7:07:57 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2022 10:45:32 PM
Surr: BFB	97.8	37.7-212		%Rec	1	6/15/2022 10:45:32 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	6/15/2022 10:45:32 PM
Toluene	ND	0.049		mg/Kg	1	6/15/2022 10:45:32 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/15/2022 10:45:32 PM
Xylenes, Total	ND	0.099		mg/Kg	1	6/15/2022 10:45:32 PM
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	6/15/2022 10:45:32 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	67	60		mg/Kg	20	6/16/2022 12:42:52 PM

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

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

**Analytical Report**

Lab Order **2206705**

Date Reported: **6/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-08 2'

**Project:** Falcon Compressor Station

**Collection Date:** 6/11/2022 1:10:00 PM

**Lab ID:** 2206705-016

**Matrix:** SOIL

**Received Date:** 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/17/2022 6:17:37 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/17/2022 6:17:37 AM
Surr: DNOP	108	51.1-141		%Rec	1	6/17/2022 6:17:37 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2022 11:09:05 PM
Surr: BFB	95.5	37.7-212		%Rec	1	6/15/2022 11:09:05 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	6/15/2022 11:09:05 PM
Toluene	ND	0.049		mg/Kg	1	6/15/2022 11:09:05 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/15/2022 11:09:05 PM
Xylenes, Total	ND	0.097		mg/Kg	1	6/15/2022 11:09:05 PM
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	6/15/2022 11:09:05 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	6/16/2022 6:42:49 PM

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2206705

21-Jun-22

**Client:** Vertex Resources Services, Inc.

**Project:** Falcon Compressor Station

Sample ID: <b>MB-68139</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>68139</b>	RunNo: <b>88758</b>								
Prep Date: <b>6/15/2022</b>	Analysis Date: <b>6/16/2022</b>	SeqNo: <b>3152233</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-68139</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>68139</b>	RunNo: <b>88758</b>								
Prep Date: <b>6/15/2022</b>	Analysis Date: <b>6/16/2022</b>	SeqNo: <b>3152234</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.5	90	110			

Sample ID: <b>MB-68162</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>68162</b>	RunNo: <b>88829</b>								
Prep Date: <b>6/16/2022</b>	Analysis Date: <b>6/16/2022</b>	SeqNo: <b>3153783</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-68162</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>68162</b>	RunNo: <b>88829</b>								
Prep Date: <b>6/16/2022</b>	Analysis Date: <b>6/16/2022</b>	SeqNo: <b>3153784</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	90	110			

Sample ID: <b>MB-68176</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>68176</b>	RunNo: <b>88829</b>								
Prep Date: <b>6/16/2022</b>	Analysis Date: <b>6/16/2022</b>	SeqNo: <b>3153815</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-68176</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>68176</b>	RunNo: <b>88829</b>								
Prep Date: <b>6/16/2022</b>	Analysis Date: <b>6/16/2022</b>	SeqNo: <b>3153816</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.8	90	110			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2206705

21-Jun-22

**Client:** Vertex Resources Services, Inc.

**Project:** Falcon Compressor Station

Sample ID: <b>LCS-68114</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>68114</b>	RunNo: <b>88796</b>								
Prep Date: <b>6/14/2022</b>	Analysis Date: <b>6/16/2022</b>	SeqNo: <b>3152882</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	15	50.00	0	118	64.4	127			
Surr: DNOP	5.9		5.000		118	51.1	141			

Sample ID: <b>MB-68114</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>68114</b>	RunNo: <b>88796</b>								
Prep Date: <b>6/14/2022</b>	Analysis Date: <b>6/16/2022</b>	SeqNo: <b>3152883</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		106	51.1	141			

Sample ID: <b>2206705-016AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>BH22-08 2'</b>	Batch ID: <b>68146</b>	RunNo: <b>88796</b>								
Prep Date: <b>6/15/2022</b>	Analysis Date: <b>6/17/2022</b>	SeqNo: <b>3154208</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	15	49.16	0	99.8	36.1	154			
Surr: DNOP	4.6		4.916		94.0	51.1	141			

Sample ID: <b>2206705-016AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>BH22-08 2'</b>	Batch ID: <b>68146</b>	RunNo: <b>88796</b>								
Prep Date: <b>6/15/2022</b>	Analysis Date: <b>6/17/2022</b>	SeqNo: <b>3154209</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	14	47.89	0	106	36.1	154	3.80	33.9	
Surr: DNOP	4.6		4.789		95.0	51.1	141	0	0	

Sample ID: <b>LCS-68146</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>68146</b>	RunNo: <b>88796</b>								
Prep Date: <b>6/15/2022</b>	Analysis Date: <b>6/17/2022</b>	SeqNo: <b>3154228</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	15	50.00	0	117	64.4	127			
Surr: DNOP	5.8		5.000		117	51.1	141			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2206705

21-Jun-22

**Client:** Vertex Resources Services, Inc.

**Project:** Falcon Compressor Station

Sample ID: <b>MB-68146</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>68146</b>	RunNo: <b>88796</b>								
Prep Date: <b>6/15/2022</b>	Analysis Date: <b>6/17/2022</b>	SeqNo: <b>3154229</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		90.7	51.1	141			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2206705

21-Jun-22

**Client:** Vertex Resources Services, Inc.

**Project:** Falcon Compressor Station

Sample ID: <b>2206705-016ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH22-08 2'</b>	Batch ID: <b>68104</b>	RunNo: <b>88769</b>								
Prep Date: <b>6/14/2022</b>	Analysis Date: <b>6/15/2022</b>	SeqNo: <b>3151525</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.9	24.61	0	114	70	130			
Surr: BFB	2200		984.3		222	37.7	212			S

Sample ID: <b>2206705-016amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH22-08 2'</b>	Batch ID: <b>68104</b>	RunNo: <b>88769</b>								
Prep Date: <b>6/14/2022</b>	Analysis Date: <b>6/15/2022</b>	SeqNo: <b>3151526</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	110	70	130	1.56	20	
Surr: BFB	2200		1000		219	37.7	212	0	0	S

Sample ID: <b>lcs-68100</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>68100</b>	RunNo: <b>88769</b>								
Prep Date: <b>6/14/2022</b>	Analysis Date: <b>6/15/2022</b>	SeqNo: <b>3151540</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	72.3	137			
Surr: BFB	2100		1000		213	37.7	212			S

Sample ID: <b>lcs-68104</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>68104</b>	RunNo: <b>88769</b>								
Prep Date: <b>6/14/2022</b>	Analysis Date: <b>6/15/2022</b>	SeqNo: <b>3151541</b>	Units: <b>mg/Kg</b>							
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	2200		1000		217	37.7	212			S

Sample ID: <b>mb-68100</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>68100</b>	RunNo: <b>88769</b>								
Prep Date: <b>6/14/2022</b>	Analysis Date: <b>6/15/2022</b>	SeqNo: <b>3151542</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		98.6	37.7	212			

Sample ID: <b>mb-68104</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>68104</b>	RunNo: <b>88769</b>								
Prep Date: <b>6/14/2022</b>	Analysis Date: <b>6/15/2022</b>	SeqNo: <b>3151543</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

**Qualifiers:**

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2206705

21-Jun-22

**Client:** Vertex Resources Services, Inc.

**Project:** Falcon Compressor Station

Sample ID: <b>mb-68104</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>68104</b>	RunNo: <b>88769</b>								
Prep Date: <b>6/14/2022</b>	Analysis Date: <b>6/15/2022</b>	SeqNo: <b>3151543</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1000		98.1	37.7	212			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2206705

21-Jun-22

**Client:** Vertex Resources Services, Inc.

**Project:** Falcon Compressor Station

Sample ID: <b>2206705-001amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>BH22-01 0'</b>	Batch ID: <b>68100</b>	RunNo: <b>88769</b>								
Prep Date: <b>6/14/2022</b>	Analysis Date: <b>6/15/2022</b>	SeqNo: <b>3151546</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	0.9833	0	87.7	68.8	120	0.762	20	
Toluene	0.91	0.049	0.9833	0	92.3	73.6	124	4.00	20	
Ethylbenzene	0.92	0.049	0.9833	0	93.9	72.7	129	7.66	20	
Xylenes, Total	2.8	0.098	2.950	0	94.6	75.7	126	8.33	20	
Surr: 4-Bromofluorobenzene	0.96		0.9833		97.1	70	130	0	0	

Sample ID: <b>LCS-68100</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>68100</b>	RunNo: <b>88769</b>								
Prep Date: <b>6/14/2022</b>	Analysis Date: <b>6/15/2022</b>	SeqNo: <b>3151577</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	84.8	80	120			
Toluene	0.89	0.050	1.000	0	89.4	80	120			
Ethylbenzene	0.89	0.050	1.000	0	89.3	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.0	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		93.4	70	130			

Sample ID: <b>LCS-68104</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>68104</b>	RunNo: <b>88769</b>								
Prep Date: <b>6/14/2022</b>	Analysis Date: <b>6/15/2022</b>	SeqNo: <b>3151578</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	84.1	80	120			
Toluene	0.88	0.050	1.000	0	88.1	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.6	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.1	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.0	70	130			

Sample ID: <b>mb-68100</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>68100</b>	RunNo: <b>88769</b>								
Prep Date: <b>6/14/2022</b>	Analysis Date: <b>6/15/2022</b>	SeqNo: <b>3151579</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.93		1.000		92.6	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2206705

21-Jun-22

**Client:** Vertex Resources Services, Inc.

**Project:** Falcon Compressor Station

Sample ID: <b>mb-68104</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>68104</b>	RunNo: <b>88769</b>								
Prep Date: <b>6/14/2022</b>	Analysis Date: <b>6/15/2022</b>	SeqNo: <b>3151580</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.93		1.000		92.6	70	130			

**Qualifiers:**

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



# Sample Log-In Check List

Client Name: Vertex Resources Services, Inc.

Work Order Number: 2206705

RcptNo: 1

Received By: Juan Rojas

6/14/2022 7:05:00 AM

*Juan Rojas*

Completed By: Sean Livingston

6/14/2022 8:31:26 AM

*Sean Livingston*

Reviewed By: *KPL*

*6.14.22*

### 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? Yes  No   
(Note discrepancies on chain of custody)
- 12. Are matrices correctly identified on Chain of Custody? Yes  No
- 13. Is it clear what analyses were requested? Yes  No
- 14. Were all holding times able to be met? Yes  No   
(If no, notify customer for authorization.)

# of preserved bottles checked for pH: \_\_\_\_\_  
(<2 or >12 unless noted)  
Adjusted? \_\_\_\_\_  
Checked by: *JR 6/14/22*

### Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

16. Additional remarks:

### Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.5	Good				



# Chain-of-Custody Record

Client: Verdeux

Mailing Address: (Deanna)

Project Name: Falcon Compressor Station

Project #: 22E-00924

Phone #: \_\_\_\_\_

email or Fax#: \_\_\_\_\_

QA/QC Package:

Standard  Level 4 (Full Validation)

Accreditation:  Az Compliance

NELAC  Other

EDD (Type) \_\_\_\_\_

Project Manager: Monica Pappin

Sampler: L. Sullivan

On Ice:  Yes  No

# of Coolers: 1

Cooler Temp (including CF): 4.5-5.5 (°C)

Container Type and # 1 Jar Preservative Type \_\_\_\_\_ HEAL No. 2206105

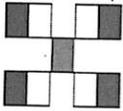
6-12-22 12:40 Soil BH22-07 0'

6-12-22 12:50 Soil BH22-07 2'

6-12-22 13:00 Soil BH22-08 0'

6-12-22 13:10 Soil BH22-08 2'

Turn-Around Time: \_\_\_\_\_  
 Standard  Rush 5 Days  
 Project Name: Falcon Compressor Station  
 Project #: 22E-00924



# HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

BTEX / MTBE / TMB's (8021)	X
TPH:8015D(GRO / DRO / MRO)	X
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	X
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	

Remarks:

Date:	Time:	Relinquished by:	Via:	Date:	Time:
6-13-2022	07:00	Sarah Sullivan	carrier	6/13/22	7:00
6/13/22	1900	Monica Pappin	carrier	6/14/22	7:00



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

May 03, 2022

Monica Peppin

Devon Energy

6488 Seven Rivers Highway

Artesia, NM 88210

TEL: (505) 350-1336

FAX

RE: Falcon Compressor Station

OrderNo.: 2204844

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 21 sample(s) on 4/20/2022 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report**

Lab Order **2204844**

Date Reported: 5/3/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH22-01 0'

**Project:** Falcon Compressor Station

**Collection Date:** 4/16/2022 9:40:00 AM

**Lab ID:** 2204844-001

**Matrix:** SOIL

**Received Date:** 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	27000	950		mg/Kg	100	4/21/2022 9:34:39 PM
Motor Oil Range Organics (MRO)	ND	4700	D	mg/Kg	100	4/21/2022 9:34:39 PM
Surr: DNOP	0	51.1-141	S	%Rec	100	4/21/2022 9:34:39 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	4/21/2022 2:29:09 PM
Surr: BFB	101	37.7-212		%Rec	5	4/21/2022 2:29:09 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	0.36	0.12		mg/Kg	5	4/21/2022 2:29:09 PM
Toluene	3.2	0.24		mg/Kg	5	4/21/2022 2:29:09 PM
Ethylbenzene	0.65	0.24		mg/Kg	5	4/21/2022 2:29:09 PM
Xylenes, Total	3.7	0.49		mg/Kg	5	4/21/2022 2:29:09 PM
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	5	4/21/2022 2:29:09 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>MRA</b>
Chloride	ND	61		mg/Kg	20	4/23/2022 2:55:16 AM

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

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

**Analytical Report**

Lab Order **2204844**

Date Reported: 5/3/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH22-01 1'

**Project:** Falcon Compressor Station

**Collection Date:** 4/16/2022 9:40:00 AM

**Lab ID:** 2204844-002

**Matrix:** SOIL

**Received Date:** 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	560	9.6		mg/Kg	1	4/21/2022 9:56:19 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/21/2022 9:56:19 PM
Surr: DNOP	96.6	51.1-141		%Rec	1	4/21/2022 9:56:19 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/21/2022 3:39:30 PM
Surr: BFB	95.7	37.7-212		%Rec	1	4/21/2022 3:39:30 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	4/21/2022 3:39:30 PM
Toluene	ND	0.049		mg/Kg	1	4/21/2022 3:39:30 PM
Ethylbenzene	ND	0.049		mg/Kg	1	4/21/2022 3:39:30 PM
Xylenes, Total	ND	0.099		mg/Kg	1	4/21/2022 3:39:30 PM
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	1	4/21/2022 3:39:30 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	4/23/2022 3:07:41 AM

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

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

**Analytical Report**

Lab Order **2204844**

Date Reported: 5/3/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH22-01 4'

**Project:** Falcon Compressor Station

**Collection Date:** 4/16/2022 9:45:00 AM

**Lab ID:** 2204844-003

**Matrix:** SOIL

**Received Date:** 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/21/2022 3:05:16 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/21/2022 3:05:16 PM
Surr: DNOP	101	51.1-141		%Rec	1	4/21/2022 3:05:16 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/21/2022 4:49:48 PM
Surr: BFB	95.5	37.7-212		%Rec	1	4/21/2022 4:49:48 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	4/21/2022 4:49:48 PM
Toluene	ND	0.050		mg/Kg	1	4/21/2022 4:49:48 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/21/2022 4:49:48 PM
Xylenes, Total	ND	0.099		mg/Kg	1	4/21/2022 4:49:48 PM
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	1	4/21/2022 4:49:48 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	4/23/2022 3:20:05 AM

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

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

**Analytical Report**

Lab Order **2204844**

Date Reported: 5/3/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH22-02 0'

**Project:** Falcon Compressor Station

**Collection Date:** 4/16/2022 10:15:00 AM

**Lab ID:** 2204844-004

**Matrix:** SOIL

**Received Date:** 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	17000	940		mg/Kg	100	4/22/2022 2:57:45 PM
Motor Oil Range Organics (MRO)	ND	4700	D	mg/Kg	100	4/22/2022 2:57:45 PM
Surr: DNOP	0	51.1-141	S	%Rec	100	4/22/2022 2:57:45 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/21/2022 5:13:15 PM
Surr: BFB	92.8	37.7-212		%Rec	1	4/21/2022 5:13:15 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	0.033	0.024		mg/Kg	1	4/21/2022 5:13:15 PM
Toluene	0.083	0.048		mg/Kg	1	4/21/2022 5:13:15 PM
Ethylbenzene	ND	0.048		mg/Kg	1	4/21/2022 5:13:15 PM
Xylenes, Total	0.15	0.096		mg/Kg	1	4/21/2022 5:13:15 PM
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	4/21/2022 5:13:15 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	4/23/2022 3:57:18 AM

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

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

**Analytical Report**

Lab Order **2204844**

Date Reported: 5/3/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH22-02 1'

**Project:** Falcon Compressor Station

**Collection Date:** 4/16/2022 10:15:00 AM

**Lab ID:** 2204844-005

**Matrix:** SOIL

**Received Date:** 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	15	10		mg/Kg	1	4/21/2022 3:48:04 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/21/2022 3:48:04 PM
Surr: DNOP	115	51.1-141		%Rec	1	4/21/2022 3:48:04 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/21/2022 5:36:43 PM
Surr: BFB	95.8	37.7-212		%Rec	1	4/21/2022 5:36:43 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	4/21/2022 5:36:43 PM
Toluene	ND	0.050		mg/Kg	1	4/21/2022 5:36:43 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/21/2022 5:36:43 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/21/2022 5:36:43 PM
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	4/21/2022 5:36:43 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	4/23/2022 4:09:43 AM

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

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

**Analytical Report**

Lab Order **2204844**

Date Reported: 5/3/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH22-02 4'

**Project:** Falcon Compressor Station

**Collection Date:** 4/16/2022 10:20:00 AM

**Lab ID:** 2204844-006

**Matrix:** SOIL

**Received Date:** 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/21/2022 4:09:30 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/21/2022 4:09:30 PM
Surr: DNOP	109	51.1-141		%Rec	1	4/21/2022 4:09:30 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/21/2022 7:10:32 PM
Surr: BFB	96.2	37.7-212		%Rec	1	4/21/2022 7:10:32 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	4/21/2022 7:10:32 PM
Toluene	ND	0.047		mg/Kg	1	4/21/2022 7:10:32 PM
Ethylbenzene	ND	0.047		mg/Kg	1	4/21/2022 7:10:32 PM
Xylenes, Total	ND	0.094		mg/Kg	1	4/21/2022 7:10:32 PM
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	4/21/2022 7:10:32 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	4/23/2022 5:11:46 AM

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

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

**Analytical Report**

Lab Order **2204844**

Date Reported: 5/3/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH22-03 0'

**Project:** Falcon Compressor Station

**Collection Date:** 4/16/2022 10:30:00 AM

**Lab ID:** 2204844-007

**Matrix:** SOIL

**Received Date:** 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	17000	1000		mg/Kg	100	4/22/2022 3:21:33 PM
Motor Oil Range Organics (MRO)	ND	5000	D	mg/Kg	100	4/22/2022 3:21:33 PM
Surr: DNOP	0	51.1-141	S	%Rec	100	4/22/2022 3:21:33 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/21/2022 7:33:56 PM
Surr: BFB	103	37.7-212		%Rec	1	4/21/2022 7:33:56 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	0.036	0.023		mg/Kg	1	4/21/2022 7:33:56 PM
Toluene	0.21	0.047		mg/Kg	1	4/21/2022 7:33:56 PM
Ethylbenzene	0.076	0.047		mg/Kg	1	4/21/2022 7:33:56 PM
Xylenes, Total	0.50	0.093		mg/Kg	1	4/21/2022 7:33:56 PM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	4/21/2022 7:33:56 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	4/23/2022 5:24:10 AM

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

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

**Analytical Report**

Lab Order **2204844**

Date Reported: 5/3/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH22-03 1'

**Project:** Falcon Compressor Station

**Collection Date:** 4/16/2022 10:50:00 AM

**Lab ID:** 2204844-008

**Matrix:** SOIL

**Received Date:** 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	19	9.7		mg/Kg	1	4/21/2022 4:52:19 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/21/2022 4:52:19 PM
Surr: DNOP	113	51.1-141		%Rec	1	4/21/2022 4:52:19 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/21/2022 7:57:21 PM
Surr: BFB	96.8	37.7-212		%Rec	1	4/21/2022 7:57:21 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	4/21/2022 7:57:21 PM
Toluene	ND	0.047		mg/Kg	1	4/21/2022 7:57:21 PM
Ethylbenzene	ND	0.047		mg/Kg	1	4/21/2022 7:57:21 PM
Xylenes, Total	ND	0.094		mg/Kg	1	4/21/2022 7:57:21 PM
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	4/21/2022 7:57:21 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>MRA</b>
Chloride	ND	59		mg/Kg	20	4/23/2022 5:36:35 AM

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

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

**Analytical Report**

Lab Order **2204844**

Date Reported: 5/3/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH22-03 4'

**Project:** Falcon Compressor Station

**Collection Date:** 4/16/2022 11:00:00 AM

**Lab ID:** 2204844-009

**Matrix:** SOIL

**Received Date:** 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/21/2022 5:13:43 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/21/2022 5:13:43 PM
Surr: DNOP	92.9	51.1-141		%Rec	1	4/21/2022 5:13:43 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/21/2022 8:21:00 PM
Surr: BFB	95.3	37.7-212		%Rec	1	4/21/2022 8:21:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	4/21/2022 8:21:00 PM
Toluene	ND	0.048		mg/Kg	1	4/21/2022 8:21:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	4/21/2022 8:21:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	4/21/2022 8:21:00 PM
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	4/21/2022 8:21:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	4/23/2022 5:49:00 AM

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

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

**Analytical Report**

Lab Order **2204844**

Date Reported: 5/3/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH22-04 0'

**Project:** Falcon Compressor Station

**Collection Date:** 4/16/2022 4:15:00 PM

**Lab ID:** 2204844-010

**Matrix:** SOIL

**Received Date:** 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	12	9.8		mg/Kg	1	4/21/2022 5:35:17 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/21/2022 5:35:17 PM
Surr: DNOP	87.5	51.1-141		%Rec	1	4/21/2022 5:35:17 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/21/2022 8:44:25 PM
Surr: BFB	93.3	37.7-212		%Rec	1	4/21/2022 8:44:25 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	4/21/2022 8:44:25 PM
Toluene	0.064	0.046		mg/Kg	1	4/21/2022 8:44:25 PM
Ethylbenzene	ND	0.046		mg/Kg	1	4/21/2022 8:44:25 PM
Xylenes, Total	ND	0.093		mg/Kg	1	4/21/2022 8:44:25 PM
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	4/21/2022 8:44:25 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	4/25/2022 1:31:02 PM

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

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

**Analytical Report**

Lab Order **2204844**

Date Reported: 5/3/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH22-04 1'

**Project:** Falcon Compressor Station

**Collection Date:** 4/16/2022 4:15:00 PM

**Lab ID:** 2204844-011

**Matrix:** SOIL

**Received Date:** 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/21/2022 5:57:03 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/21/2022 5:57:03 PM
Surr: DNOP	112	51.1-141		%Rec	1	4/21/2022 5:57:03 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/21/2022 9:07:47 PM
Surr: BFB	92.8	37.7-212		%Rec	1	4/21/2022 9:07:47 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	4/21/2022 9:07:47 PM
Toluene	ND	0.048		mg/Kg	1	4/21/2022 9:07:47 PM
Ethylbenzene	ND	0.048		mg/Kg	1	4/21/2022 9:07:47 PM
Xylenes, Total	ND	0.096		mg/Kg	1	4/21/2022 9:07:47 PM
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	4/21/2022 9:07:47 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	4/25/2022 1:43:23 PM

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

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

**Analytical Report**

Lab Order **2204844**

Date Reported: 5/3/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH22-04 4'

**Project:** Falcon Compressor Station

**Collection Date:** 4/16/2022 4:20:00 PM

**Lab ID:** 2204844-012

**Matrix:** SOIL

**Received Date:** 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	11	9.4		mg/Kg	1	4/21/2022 6:18:59 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/21/2022 6:18:59 PM
Surr: DNOP	88.6	51.1-141		%Rec	1	4/21/2022 6:18:59 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/21/2022 9:31:10 PM
Surr: BFB	93.7	37.7-212		%Rec	1	4/21/2022 9:31:10 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	4/21/2022 9:31:10 PM
Toluene	ND	0.047		mg/Kg	1	4/21/2022 9:31:10 PM
Ethylbenzene	ND	0.047		mg/Kg	1	4/21/2022 9:31:10 PM
Xylenes, Total	ND	0.095		mg/Kg	1	4/21/2022 9:31:10 PM
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	4/21/2022 9:31:10 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	4/25/2022 1:55:42 PM

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

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

**Analytical Report**

Lab Order **2204844**

Date Reported: 5/3/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH22-05 0'

**Project:** Falcon Compressor Station

**Collection Date:** 4/17/2022 7:25:00 AM

**Lab ID:** 2204844-013

**Matrix:** SOIL

**Received Date:** 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/21/2022 6:40:54 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/21/2022 6:40:54 PM
Surr: DNOP	88.4	51.1-141		%Rec	1	4/21/2022 6:40:54 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/21/2022 9:54:30 PM
Surr: BFB	94.3	37.7-212		%Rec	1	4/21/2022 9:54:30 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	4/21/2022 9:54:30 PM
Toluene	ND	0.050		mg/Kg	1	4/21/2022 9:54:30 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/21/2022 9:54:30 PM
Xylenes, Total	ND	0.099		mg/Kg	1	4/21/2022 9:54:30 PM
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	4/21/2022 9:54:30 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	110	60		mg/Kg	20	4/25/2022 2:08:03 PM

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

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

**Analytical Report**

Lab Order **2204844**

Date Reported: 5/3/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH22-05 1'

**Project:** Falcon Compressor Station

**Collection Date:** 4/17/2022 7:25:00 AM

**Lab ID:** 2204844-014

**Matrix:** SOIL

**Received Date:** 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/21/2022 7:02:45 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/21/2022 7:02:45 PM
Surr: DNOP	86.1	51.1-141		%Rec	1	4/21/2022 7:02:45 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/21/2022 10:17:56 PM
Surr: BFB	93.5	37.7-212		%Rec	1	4/21/2022 10:17:56 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	4/21/2022 10:17:56 PM
Toluene	ND	0.047		mg/Kg	1	4/21/2022 10:17:56 PM
Ethylbenzene	ND	0.047		mg/Kg	1	4/21/2022 10:17:56 PM
Xylenes, Total	ND	0.094		mg/Kg	1	4/21/2022 10:17:56 PM
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	1	4/21/2022 10:17:56 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	4/25/2022 2:20:23 PM

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

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

**Analytical Report**

Lab Order **2204844**

Date Reported: 5/3/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH22-05 4'

**Project:** Falcon Compressor Station

**Collection Date:** 4/17/2022 7:30:00 AM

**Lab ID:** 2204844-015

**Matrix:** SOIL

**Received Date:** 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/21/2022 7:24:34 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/21/2022 7:24:34 PM
Surr: DNOP	97.4	51.1-141		%Rec	1	4/21/2022 7:24:34 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/21/2022 10:41:25 PM
Surr: BFB	96.7	37.7-212		%Rec	1	4/21/2022 10:41:25 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	4/21/2022 10:41:25 PM
Toluene	ND	0.050		mg/Kg	1	4/21/2022 10:41:25 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/21/2022 10:41:25 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/21/2022 10:41:25 PM
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	4/21/2022 10:41:25 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	4/25/2022 3:22:07 PM

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

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

**Analytical Report**

Lab Order **2204844**

Date Reported: 5/3/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH22-06 0'

**Project:** Falcon Compressor Station

**Collection Date:** 4/17/2022 7:55:00 AM

**Lab ID:** 2204844-016

**Matrix:** SOIL

**Received Date:** 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/21/2022 7:46:22 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/21/2022 7:46:22 PM
Surr: DNOP	95.4	51.1-141		%Rec	1	4/21/2022 7:46:22 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/21/2022 11:51:42 PM
Surr: BFB	96.6	37.7-212		%Rec	1	4/21/2022 11:51:42 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	4/21/2022 11:51:42 PM
Toluene	ND	0.046		mg/Kg	1	4/21/2022 11:51:42 PM
Ethylbenzene	ND	0.046		mg/Kg	1	4/21/2022 11:51:42 PM
Xylenes, Total	ND	0.093		mg/Kg	1	4/21/2022 11:51:42 PM
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	4/21/2022 11:51:42 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	140	60		mg/Kg	20	4/25/2022 3:34:28 PM

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

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

**Analytical Report**

Lab Order **2204844**

Date Reported: 5/3/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH22-06 1'

**Project:** Falcon Compressor Station

**Collection Date:** 4/17/2022 7:55:00 AM

**Lab ID:** 2204844-017

**Matrix:** SOIL

**Received Date:** 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	11	9.7		mg/Kg	1	4/21/2022 8:08:07 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/21/2022 8:08:07 PM
Surr: DNOP	92.2	51.1-141		%Rec	1	4/21/2022 8:08:07 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/22/2022 12:15:02 AM
Surr: BFB	94.1	37.7-212		%Rec	1	4/22/2022 12:15:02 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	4/22/2022 12:15:02 AM
Toluene	ND	0.049		mg/Kg	1	4/22/2022 12:15:02 AM
Ethylbenzene	ND	0.049		mg/Kg	1	4/22/2022 12:15:02 AM
Xylenes, Total	ND	0.098		mg/Kg	1	4/22/2022 12:15:02 AM
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	1	4/22/2022 12:15:02 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	4/25/2022 3:46:48 PM

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

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

**Analytical Report**

Lab Order **2204844**

Date Reported: 5/3/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH22-06 4'

**Project:** Falcon Compressor Station

**Collection Date:** 4/17/2022 8:00:00 AM

**Lab ID:** 2204844-018

**Matrix:** SOIL

**Received Date:** 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/21/2022 8:29:50 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/21/2022 8:29:50 PM
Surr: DNOP	102	51.1-141		%Rec	1	4/21/2022 8:29:50 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/22/2022 12:38:19 AM
Surr: BFB	94.1	37.7-212		%Rec	1	4/22/2022 12:38:19 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	4/22/2022 12:38:19 AM
Toluene	ND	0.047		mg/Kg	1	4/22/2022 12:38:19 AM
Ethylbenzene	ND	0.047		mg/Kg	1	4/22/2022 12:38:19 AM
Xylenes, Total	ND	0.094		mg/Kg	1	4/22/2022 12:38:19 AM
Surr: 4-Bromofluorobenzene	96.5	70-130		%Rec	1	4/22/2022 12:38:19 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	4/25/2022 3:59:09 PM

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

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

**Analytical Report**

Lab Order **2204844**

Date Reported: 5/3/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH22-07 0'

**Project:** Falcon Compressor Station

**Collection Date:** 4/17/2022 8:25:00 AM

**Lab ID:** 2204844-019

**Matrix:** SOIL

**Received Date:** 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/21/2022 8:51:31 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/21/2022 8:51:31 PM
Surr: DNOP	85.9	51.1-141		%Rec	1	4/21/2022 8:51:31 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/22/2022 1:01:43 AM
Surr: BFB	97.8	37.7-212		%Rec	1	4/22/2022 1:01:43 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	4/22/2022 1:01:43 AM
Toluene	ND	0.047		mg/Kg	1	4/22/2022 1:01:43 AM
Ethylbenzene	ND	0.047		mg/Kg	1	4/22/2022 1:01:43 AM
Xylenes, Total	ND	0.094		mg/Kg	1	4/22/2022 1:01:43 AM
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	1	4/22/2022 1:01:43 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	66	60		mg/Kg	20	4/25/2022 4:11:30 PM

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

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

**Analytical Report**

Lab Order **2204844**

Date Reported: 5/3/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH22-07 1'

**Project:** Falcon Compressor Station

**Collection Date:** 4/17/2022 8:25:00 AM

**Lab ID:** 2204844-020

**Matrix:** SOIL

**Received Date:** 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/25/2022 12:04:23 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/25/2022 12:04:23 PM
Surr: DNOP	79.8	51.1-141		%Rec	1	4/25/2022 12:04:23 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/22/2022 1:25:00 AM
Surr: BFB	96.8	37.7-212		%Rec	1	4/22/2022 1:25:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	4/22/2022 1:25:00 AM
Toluene	ND	0.048		mg/Kg	1	4/22/2022 1:25:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	4/22/2022 1:25:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	4/22/2022 1:25:00 AM
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	4/22/2022 1:25:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	4/25/2022 4:23:51 PM

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

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

**Analytical Report**

Lab Order **2204844**

Date Reported: 5/3/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH22-07 4'

**Project:** Falcon Compressor Station

**Collection Date:** 4/17/2022 8:30:00 AM

**Lab ID:** 2204844-021

**Matrix:** SOIL

**Received Date:** 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/25/2022 12:28:08 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/25/2022 12:28:08 PM
Surr: DNOP	79.1	51.1-141		%Rec	1	4/25/2022 12:28:08 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/21/2022 9:26:00 PM
Surr: BFB	108	37.7-212		%Rec	1	4/21/2022 9:26:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	4/21/2022 9:26:00 PM
Toluene	ND	0.049		mg/Kg	1	4/21/2022 9:26:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	4/21/2022 9:26:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	4/21/2022 9:26:00 PM
Surr: 4-Bromofluorobenzene	87.5	70-130		%Rec	1	4/21/2022 9:26:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	4/25/2022 4:36:12 PM

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

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



# ANALYTICAL REPORT

April 29, 2022

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Gl
- 6 Al
- 7 Sc

## Hall Environmental Analysis Laboratory

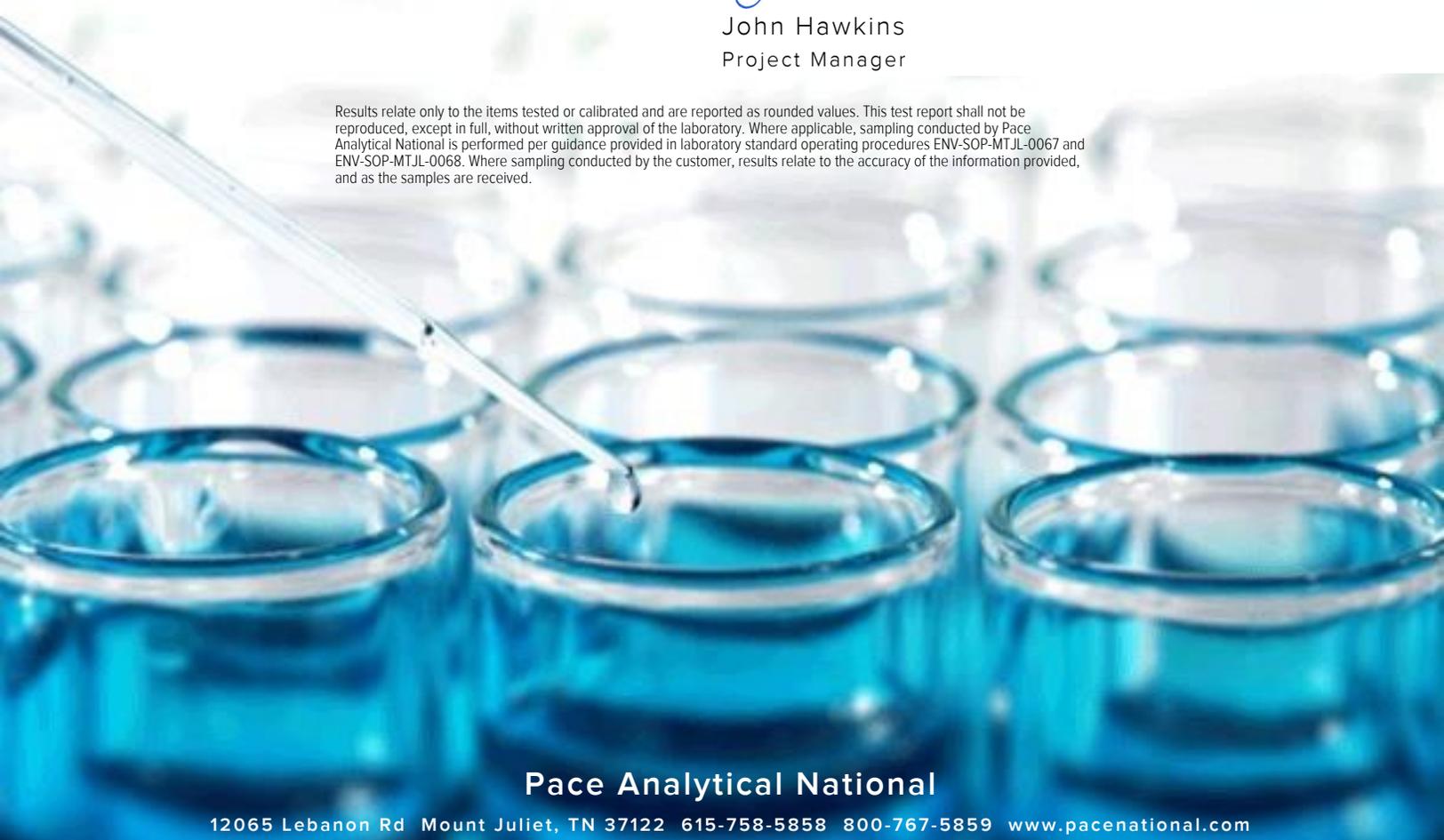
Sample Delivery Group: L1484919  
 Samples Received: 04/21/2022  
 Project Number:  
 Description:

Report To: Andy Freeman  
 4901 Hawkins NE  
 Albuquerque, NM 87109

Entire Report Reviewed By:

John Hawkins  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

<b>Cp: Cover Page</b>	<b>1</b>	
<b>Tc: Table of Contents</b>	<b>2</b>	
<b>Ss: Sample Summary</b>	<b>3</b>	
<b>Cn: Case Narrative</b>	<b>6</b>	
<b>Gl: Glossary of Terms</b>	<b>7</b>	
<b>Al: Accreditations &amp; Locations</b>	<b>8</b>	
<b>Sc: Sample Chain of Custody</b>	<b>9</b>	
		
		
		

# SAMPLE SUMMARY

2204844-001B L1484919-01 Solid

Collected by  
Collected date/time  
Received date/time  
04/16/22 09:40 04/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1852399	1	04/29/22 00:00	04/29/22 00:00	-	Baton Rouge, LA 70820

1 Cp

2 Tc

3 Ss

4 Cn

5 Gl

6 Al

7 Sc

2204844-002B L1484919-02 Solid

Collected by  
Collected date/time  
Received date/time  
04/16/22 09:40 04/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1852399	1	04/29/22 00:00	04/29/22 00:00	-	Baton Rouge, LA 70820

2204844-003B L1484919-03 Solid

Collected by  
Collected date/time  
Received date/time  
04/16/22 09:40 04/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1852399	1	04/29/22 00:00	04/29/22 00:00	-	Baton Rouge, LA 70820

2204844-004B L1484919-04 Solid

Collected by  
Collected date/time  
Received date/time  
04/16/22 09:40 04/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1852399	1	04/29/22 00:00	04/29/22 00:00	-	Baton Rouge, LA 70820

2204844-005B L1484919-05 Solid

Collected by  
Collected date/time  
Received date/time  
04/16/22 09:40 04/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1852399	1	04/29/22 00:00	04/29/22 00:00	-	Baton Rouge, LA 70820

2204844-006B L1484919-06 Solid

Collected by  
Collected date/time  
Received date/time  
04/16/22 09:40 04/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1852399	1	04/29/22 00:00	04/29/22 00:00	-	Baton Rouge, LA 70820

2204844-007B L1484919-07 Solid

Collected by  
Collected date/time  
Received date/time  
04/16/22 09:40 04/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1852399	1	04/29/22 00:00	04/29/22 00:00	-	Baton Rouge, LA 70820

2204844-008B L1484919-08 Solid

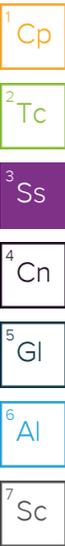
Collected by  
Collected date/time  
Received date/time  
04/16/22 09:40 04/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1852399	1	04/29/22 00:00	04/29/22 00:00	-	Baton Rouge, LA 70820

2204844-009B L1484919-09 Solid

Collected by  
Collected date/time  
Received date/time  
04/16/22 09:40 04/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1852399	1	04/29/22 00:00	04/29/22 00:00	-	Baton Rouge, LA 70820



2204844-010B L1484919-10 Solid

Collected by  
Collected date/time  
Received date/time  
04/16/22 09:40 04/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1852399	1	04/29/22 00:00	04/29/22 00:00	-	Baton Rouge, LA 70820

2204844-011B L1484919-11 Solid

Collected by  
Collected date/time  
Received date/time  
04/16/22 09:40 04/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1852399	1	04/29/22 00:00	04/29/22 00:00	-	Baton Rouge, LA 70820

2204844-012B L1484919-12 Solid

Collected by  
Collected date/time  
Received date/time  
04/16/22 09:40 04/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1852399	1	04/29/22 00:00	04/29/22 00:00	-	Baton Rouge, LA 70820

2204844-013B L1484919-13 Solid

Collected by  
Collected date/time  
Received date/time  
04/16/22 09:40 04/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1852399	1	04/29/22 00:00	04/29/22 00:00	-	Baton Rouge, LA 70820

2204844-014B L1484919-14 Solid

Collected by  
Collected date/time  
Received date/time  
04/16/22 09:40 04/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1852399	1	04/29/22 00:00	04/29/22 00:00	-	Baton Rouge, LA 70820

2204844-015B L1484919-15 Solid

Collected by  
Collected date/time  
Received date/time  
04/16/22 09:40 04/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1852399	1	04/29/22 00:00	04/29/22 00:00	-	Baton Rouge, LA 70820

2204844-016B L1484919-16 Solid

Collected by  
Collected date/time  
Received date/time  
04/16/22 09:40 04/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1852399	1	04/29/22 00:00	04/29/22 00:00	-	Baton Rouge, LA 70820

2204844-017B L1484919-17 Solid

Collected by  
04/16/22 09:40  
Received date/time  
04/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1852399	1	04/29/22 00:00	04/29/22 00:00	-	Baton Rouge, LA 70820

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Gl
- 6 Al
- 7 Sc

2204844-018B L1484919-18 Solid

Collected by  
04/16/22 09:40  
Received date/time  
04/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1852399	1	04/29/22 00:00	04/29/22 00:00	-	Baton Rouge, LA 70820

2204844-019B L1484919-19 Solid

Collected by  
04/16/22 09:40  
Received date/time  
04/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1852399	1	04/29/22 00:00	04/29/22 00:00	-	Baton Rouge, LA 70820

2204844-020B L1484919-20 Solid

Collected by  
04/16/22 09:40  
Received date/time  
04/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1852399	1	04/29/22 00:00	04/29/22 00:00	-	Baton Rouge, LA 70820

2204844-021B L1484919-21 Solid

Collected by  
04/16/22 09:40  
Received date/time  
04/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1852399	1	04/29/22 00:00	04/29/22 00:00	-	Baton Rouge, LA 70820

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

John Hawkins  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Gl
- <sup>6</sup> Al
- <sup>7</sup> Sc

Project Narrative

---

L1484919 -01, -02, -03, -04, -05, -06, -07, -08, -09, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -20, -21 contains subout data that is included after the chain of custody.

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

SDG	Sample Delivery Group.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

1 Cp

2 Tc

3 Ss

4 Cn

5 Gl

6 Al

7 Sc

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

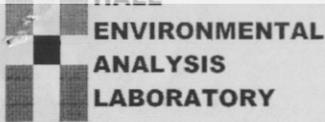
<sup>5</sup> Gl

<sup>6</sup> Al

<sup>7</sup> Sc

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 2



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

D232

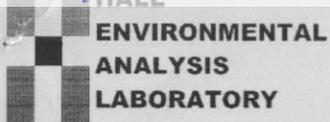
SUB CONTRACTOR: <b>Pace TN</b>	COMPANY: <b>PACE TN</b>	PHONE: <b>(800) 767-5859</b>	FAX: <b>(615) 758-5859</b>
ADDRESS: <b>12065 Lebanon Rd</b>		ACCOUNT #:	EMAIL:
CITY, STATE, ZIP: <b>Mt. Juliet, TN 37122</b>			

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2204844-001B	BH22-01 0'	4OZGU	Soil	4/16/2022 9:40:00 AM	1	5 DAY TAT, Triethyleneglycol L14249A-01
2	2204844-002B	BH22-01 1'	4OZGU	Soil	4/16/2022 9:40:00 AM	1	5 DAY TAT, Triethyleneglycol 02
3	2204844-003B	BH22-01 4'	4OZGU	Soil	4/16/2022 9:45:00 AM	1	5 DAY TAT, Triethyleneglycol 03
4	2204844-004B	BH22-02 0'	4OZGU	Soil	4/16/2022 10:15:00 AM	1	5 DAY TAT, Triethyleneglycol -4
5	2204844-005B	BH22-02 1'	4OZGU	Soil	4/16/2022 10:15:00 AM	1	5 DAY TAT, Triethyleneglycol 05
6	2204844-006B	BH22-02 4'	4OZGU	Soil	4/16/2022 10:20:00 AM	1	5 DAY TAT, Triethyleneglycol 06
7	2204844-007B	BH22-03 0'	4OZGU	Soil	4/16/2022 10:30:00 AM	1	5 DAY TAT, Triethyleneglycol 07
8	2204844-008B	BH22-03 1'	4OZGU	Soil	4/16/2022 10:50:00 AM	1	5 DAY TAT, Triethyleneglycol 08
9	2204844-009B	BH22-03 4'	4OZGU	Soil	4/16/2022 11:00:00 AM	1	5 DAY TAT, Triethyleneglycol 09
10	2204844-010B	BH22-04 0'	4OZGU	Soil	4/16/2022 4:15:00 PM	1	5 DAY TAT, Triethyleneglycol 10
11	2204844-011B	BH22-04 1'	4OZGU	Soil	4/16/2022 4:15:00 PM	1	5 DAY TAT, Triethyleneglycol 11
12	2204844-012B	BH22-04 4'	4OZGU	Soil	4/16/2022 4:20:00 PM	1	5 DAY TAT, Triethyleneglycol 12
13	2204844-013B	BH22-05 0'	4OZGU	Soil	4/17/2022 7:25:00 AM	1	5 DAY TAT, Triethyleneglycol 13

SPECIAL INSTRUCTIONS / COMMENTS: 5528 5917 91083 2.0+0.20 5A106

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By:	Date: 4/20/2022	Time: 10:31 AM	Received By:	Date: 4/20/22	Time: 0900	REPORT TRANSMITTAL DESIRED: <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE  FOR LAB USE ONLY  Temp of samples _____ °C    Attempt to Cool? _____  Comments: _____
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
TAT:    Standard <input type="checkbox"/> <b>RUSH</b> Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/>						



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

SUB CONTRACTOR: <b>Pace TN</b>	COMPANY: <b>PACE TN</b>	PHONE: <b>(800) 767-5859</b>	FAX: <b>(615) 758-5859</b>
ADDRESS: <b>12065 Lebanon Rd</b>		ACCOUNT #:	EMAIL:
CITY, STATE, ZIP: <b>Mt. Juliet, TN 37122</b>			

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
14	2204844-014B	BH22-05 1'	4OZGU	Soil	4/17/2022 7:25:00 AM	1	5 DAY TAT, Triethyleneglycol <i>L148 4919-14</i>
15	2204844-015B	BH22-05 4'	4OZGU	Soil	4/17/2022 7:30:00 AM	1	5 DAY TAT, Triethyleneglycol <i>15</i>
16	2204844-016B	BH22-06 0'	4OZGU	Soil	4/17/2022 7:55:00 AM	1	5 DAY TAT, Triethyleneglycol <i>16</i>
17	2204844-017B	BH22-06 1'	4OZGU	Soil	4/17/2022 7:55:00 AM	1	5 DAY TAT, Triethyleneglycol <i>17</i>
18	2204844-018B	BH22-06 4'	4OZGU	Soil	4/17/2022 8:00:00 AM	1	5 DAY TAT, Triethyleneglycol <i>18</i>
19	2204844-019B	BH22-07 0'	4OZGU	Soil	4/17/2022 8:25:00 AM	1	5 DAY TAT, Triethyleneglycol <i>19</i>
20	2204844-020B	BH22-07 1'	4OZGU	Soil	4/17/2022 8:25:00 AM	1	5 DAY TAT, Triethyleneglycol <i>20</i>
21	2204844-021B	BH22-07 4'	4OZGU	Soil	4/17/2022 8:30:00 AM	1	5 DAY TAT, Triethyleneglycol <i>21</i>

**Sample Receipt Checklist**

COC Seal Present/Intact:  Y  N If Applicable

COC Signed/Accurate:  Y  N VOA Zero Headspace:  Y  N

Bottles arrive intact:  Y  N Pres. Correct/Check:  Y  N

Correct bottles used:  Y  N

Sufficient volume sent:  Y  N

rad Screen < 0.5 mR/hr:  Y  N

**SPECIAL INSTRUCTIONS / COMMENTS:**  
 Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By: <i>[Signature]</i>	Date: <b>4/20/2022</b>	Time: <b>10:31 AM</b>	Received By: <i>[Signature]</i>	Date: <b>4/21/2022</b>	Time: <b>09:00</b>	REPORT TRANSMITTAL DESIRED: <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE  FOR LAB USE ONLY  Temp of samples _____ °C    Attempt to Cool? _____  Comments: _____
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
TAT:    Standard <input type="checkbox"/> <b>RUSH</b> <input checked="" type="checkbox"/> Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/>						



LELAP CERTIFICATE NUMBER: 01955  
DOD-ELAP ACCREDITATION NUMBER: 74960

# ANALYTICAL RESULTS

## PERFORMED BY

**Pace Analytical Gulf Coast**  
7979 Innovation Park Dr.  
Baton Rouge, LA 70820  
(225) 769-4900

**Report Date** 04/28/2022

**Report #** 222042306



**Project** WG1852399 L1484919

**Samples Collected** 4/16/22

<b>Deliver To</b>	<b>Additional Recipients</b>
John Hawkins Pace Analytical Services, Inc. 12065 Lebanon Road Mount Juliet, TN 37122	SuboutTeam, Pace Analytical Services Jimmy Huckaba, Pace Analytical Services, Inc. Angela Ford, Pace Analytical Services, Inc.





**Report#:** 222042306  
**Project ID:** WG1852399 L1484919

**Report Date:** 04/28/2022

## Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with Pace Gulf Coast's Standard Operating Procedures.

### Common Abbreviations that may be Utilized in this Report

<b>ND</b>	Indicates the result was Not Detected at the specified reporting limit
<b>NO</b>	Indicates the sample did not ignite when preliminary test performed for EPA Method 1030
<b>DO</b>	Indicates the result was Diluted Out
<b>MI</b>	Indicates the result was subject to Matrix Interference
<b>TNTC</b>	Indicates the result was Too Numerous To Count
<b>SUBC</b>	Indicates the analysis was Sub-Contracted
<b>FLD</b>	Indicates the analysis was performed in the Field
<b>DL</b>	Detection Limit
<b>LOD</b>	Limit of Detection
<b>LOQ</b>	Limit of Quantitation
<b>RE</b>	Re-analysis
<b>CF</b>	HPLC or GC Confirmation
<b>00:01</b>	Reported as a time equivalent to 12:00 AM

### Reporting Flags that may be Utilized in this Report

<b>J or I</b>	Indicates the result is between the MDL and LOQ
<b>J</b>	DOD flag on analyte in the parent sample for MS/MSD outside acceptance criteria
<b>U</b>	Indicates the compound was analyzed for but not detected
<b>B or V</b>	Indicates the analyte was detected in the associated Method Blank
<b>Q</b>	Indicates a non-compliant QC Result (See Q Flag Application Report)
<b>*</b>	Indicates a non-compliant or not applicable QC recovery or RPD – see narrative
<b>E</b>	Organics - The result is estimated because it exceeded the instrument calibration range
<b>E</b>	Metals - % difference for the serial dilution is > 10%
<b>L</b>	Reporting Limits adjusted to meet risk-based limit.
<b>P</b>	RPD between primary and confirmation result is greater than 40
<b>DL</b>	Diluted analysis – when appended to Client Sample ID

Sample receipt at Pace Gulf Coast is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of Pace Gulf Coast. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with The NELAC Institute (TNI) Standard 2009 and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Authorized Signature  
 Pace Gulf Coast Report 222042306



**Report#:** 222042306  
**Project ID:** WG1852399 L1484919

**Report Date:** 04/28/2022

## Certifications

Certification	Certification Number
DOD ELAP	74960
Alabama	01955
Arkansas	88-0655
Colorado	01955
Delaware	01955
Florida	E87854
Georgia	01955
Hawaii	01955
Idaho	01955
Illinois	200048
Indiana	01955
Kansas	E-10354
Kentucky	95
Louisiana	01955
Maryland	01955
Massachusetts	01955
Michigan	01955
Mississippi	01955
Missouri	01955
Montana	N/A
Nebraska	01955
New Mexico	01955
North Carolina	618
North Dakota	R-195
Oklahoma	9403
South Carolina	73006001
South Dakota	01955
Tennessee	01955
Texas	T104704178
Vermont	01955
Virginia	460215
Washington	C929
USDA Soil Permit	P330-16-00234



**Report#:** 222042306  
**Project ID:** WG1852399 L1484919

**Report Date:** 04/28/2022

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## Case Narrative

**Client:** Pace Analytical Services      **Report:** 222042306

Pace Analytical Gulf Coast received and analyzed the sample(s) listed on the Report Sample Summary page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

**No anomalies were found for the analyzed sample(s).**



**Report#:** 222042306  
**Project ID:** WG1852399 L1484919

**Report Date:** 04/28/2022

## Sample Summary

Lab ID	Client ID	Matrix	Collect Date	Receive Date
22204230601	2204844-001B	Solid	4/16/22 09:40	4/22/22 09:30
22204230602	2204844-002B	Solid	4/16/22 09:40	4/22/22 09:30
22204230603	2204844-003B	Solid	4/16/22 09:40	4/22/22 09:30
22204230604	2204844-004B	Solid	4/16/22 09:40	4/22/22 09:30
22204230605	2204844-005B	Solid	4/16/22 09:40	4/22/22 09:30
22204230606	2204844-006B	Solid	4/16/22 09:40	4/22/22 09:30
22204230607	2204844-007B	Solid	4/16/22 09:40	4/22/22 09:30
22204230608	2204844-008B	Solid	4/16/22 09:40	4/22/22 09:30
22204230609	2204844-009B	Solid	4/16/22 09:40	4/22/22 09:30
22204230610	2204844-010B	Solid	4/16/22 09:40	4/22/22 09:30
22204230611	2204844-011B	Solid	4/16/22 09:40	4/22/22 09:30
22204230612	2204844-012B	Solid	4/16/22 09:40	4/22/22 09:30
22204230613	2204844-013B	Solid	4/16/22 09:40	4/22/22 09:30
22204230614	2204844-014B	Solid	4/16/22 09:40	4/22/22 09:30
22204230615	2204844-015B	Solid	4/16/22 09:40	4/22/22 09:30
22204230616	2204844-016B	Solid	4/16/22 09:40	4/22/22 09:30
22204230617	2204844-017B	Solid	4/16/22 09:40	4/22/22 09:30
22204230618	2204844-018B	Solid	4/16/22 09:40	4/22/22 09:30
22204230619	2204844-019B	Solid	4/16/22 09:40	4/22/22 09:30
22204230620	2204844-020B	Solid	4/16/22 09:40	4/22/22 09:30
22204230621	2204844-021B	Solid	4/16/22 09:40	4/22/22 09:30



**Report#:** 222042306  
**Project ID:** WG1852399 L1484919

**Report Date:** 04/28/2022

## Detect Summary

Results and Detection Limits are adjusted for dilution and moisture when applicable

EPA 8015C						
Lab ID	Client ID	Parameter	Units	Result	Dil.	%Moist
22204230601	2204844-001B	Triethylene Glycol	ug/Kg	121000000	500	6.36
22204230602	2204844-002B	Triethylene Glycol	ug/Kg	8270000	100	1.42
22204230603	2204844-003B	Triethylene Glycol	ug/Kg	571000	10	2.52
22204230604	2204844-004B	Triethylene Glycol	ug/Kg	92900000	500	5.98
22204230605	2204844-005B	Triethylene Glycol	ug/Kg	581000	10	1.59
22204230606	2204844-006B	Triethylene Glycol	ug/Kg	34100	1	2.45
22204230607	2204844-007B	Triethylene Glycol	ug/Kg	98900000	500	5.04
22204230608	2204844-008B	Triethylene Glycol	ug/Kg	1310000	50	.99
22204230609	2204844-009B	Triethylene Glycol	ug/Kg	319000	10	2.47
22204230610	2204844-010B	Triethylene Glycol	ug/Kg	74400	1	.56
22204230611	2204844-011B	Triethylene Glycol	ug/Kg	14900	1	1.63
22204230613	2204844-013B	Triethylene Glycol	ug/Kg	34800	1	2.02
22204230620	2204844-020B	Triethylene Glycol	ug/Kg	8860	1	.95



**Report#:** 222042306  
**Project ID:** WG1852399 L1484919

**Report Date:** 04/28/2022

## Sample Results

<b>2204844-001B</b>	<b>Collect Date</b> 04/16/2022 09:40	<b>Lab ID</b> 22204230601
	<b>Receive Date</b> 04/22/2022 09:30	<b>Matrix</b> Solid

EPA 8015C \*Results and limits are adjusted for dilution and moisture content.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	500	04/28/22 10:53	739343	ARW	6.36

<b>CAS#</b> 112-27-6	<b>Parameter</b> <b>Triethylene Glycol</b>	<b>Result</b> <b>121000000</b>	<b>LOQ</b> <b>2670000</b>	<b>Units</b> ug/Kg
-------------------------	---	-----------------------------------	------------------------------	-----------------------

<b>2204844-002B</b>	<b>Collect Date</b> 04/16/2022 09:40	<b>Lab ID</b> 22204230602
	<b>Receive Date</b> 04/22/2022 09:30	<b>Matrix</b> Solid

EPA 8015C \*Results and limits are adjusted for dilution and moisture content.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	100	04/28/22 11:06	739343	ARW	1.42

<b>CAS#</b> 112-27-6	<b>Parameter</b> <b>Triethylene Glycol</b>	<b>Result</b> <b>8270000</b>	<b>LOQ</b> <b>507000</b>	<b>Units</b> ug/Kg
-------------------------	---	---------------------------------	-----------------------------	-----------------------

<b>2204844-003B</b>	<b>Collect Date</b> 04/16/2022 09:40	<b>Lab ID</b> 22204230603
	<b>Receive Date</b> 04/22/2022 09:30	<b>Matrix</b> Solid

EPA 8015C \*Results and limits are adjusted for dilution and moisture content.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	10	04/28/22 11:15	739343	ARW	2.52

<b>CAS#</b> 112-27-6	<b>Parameter</b> <b>Triethylene Glycol</b>	<b>Result</b> <b>571000</b>	<b>LOQ</b> <b>51300</b>	<b>Units</b> ug/Kg
-------------------------	---	--------------------------------	----------------------------	-----------------------

<b>2204844-004B</b>	<b>Collect Date</b> 04/16/2022 09:40	<b>Lab ID</b> 22204230604
	<b>Receive Date</b> 04/22/2022 09:30	<b>Matrix</b> Solid

EPA 8015C \*Results and limits are adjusted for dilution and moisture content.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	500	04/28/22 11:25	739343	ARW	5.98

<b>CAS#</b> 112-27-6	<b>Parameter</b> <b>Triethylene Glycol</b>	<b>Result</b> <b>92900000</b>	<b>LOQ</b> <b>2660000</b>	<b>Units</b> ug/Kg
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Report#: 222042306  
Project ID: WG1852399 L1484919

Report Date: 04/28/2022

## Sample Results

<b>2204844-005B</b>	Collect Date	04/16/2022 09:40	Lab ID	22204230605
	Receive Date	04/22/2022 09:30	Matrix	Solid

EPA 8015C

\*Results and limits are adjusted for dilution and moisture content.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	10	04/28/22 12:02	739343	ARW	1.59

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	581000	50800	ug/Kg

<b>2204844-006B</b>	Collect Date	04/16/2022 09:40	Lab ID	22204230606
	Receive Date	04/22/2022 09:30	Matrix	Solid

EPA 8015C

\*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	04/28/22 10:09	739343	ARW	2.45

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	34100	5130	ug/Kg

<b>2204844-007B</b>	Collect Date	04/16/2022 09:40	Lab ID	22204230607
	Receive Date	04/22/2022 09:30	Matrix	Solid

EPA 8015C

\*Results and limits are adjusted for dilution and moisture content.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	500	04/28/22 11:51	739343	ARW	5.04

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	98900000	2630000	ug/Kg

<b>2204844-008B</b>	Collect Date	04/16/2022 09:40	Lab ID	22204230608
	Receive Date	04/22/2022 09:30	Matrix	Solid

EPA 8015C

\*Results and limits are adjusted for dilution and moisture content.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	50	04/28/22 11:43	739343	ARW	.99

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	1310000	252000	ug/Kg



**Report#:** 222042306  
**Project ID:** WG1852399 L1484919

**Report Date:** 04/28/2022

## Sample Results

<b>2204844-009B</b>	<b>Collect Date</b> 04/16/2022 09:40	<b>Lab ID</b> 22204230609
	<b>Receive Date</b> 04/22/2022 09:30	<b>Matrix</b> Solid

EPA 8015C \*Results and limits are adjusted for dilution and moisture content.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	10	04/28/22 11:34	739343	ARW	2.47

<b>CAS#</b> 112-27-6	<b>Parameter</b> <b>Triethylene Glycol</b>	<b>Result</b> <b>319000</b>	<b>LOQ</b> <b>51300</b>	<b>Units</b> ug/Kg
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<b>2204844-010B</b>	<b>Collect Date</b> 04/16/2022 09:40	<b>Lab ID</b> 22204230610
	<b>Receive Date</b> 04/22/2022 09:30	<b>Matrix</b> Solid

EPA 8015C \*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	04/28/22 10:19	739343	ARW	.56

<b>CAS#</b> 112-27-6	<b>Parameter</b> <b>Triethylene Glycol</b>	<b>Result</b> <b>74400</b>	<b>LOQ</b> <b>5030</b>	<b>Units</b> ug/Kg
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<b>2204844-011B</b>	<b>Collect Date</b> 04/16/2022 09:40	<b>Lab ID</b> 22204230611
	<b>Receive Date</b> 04/22/2022 09:30	<b>Matrix</b> Solid

EPA 8015C \*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	04/28/22 10:28	739343	ARW	1.63

<b>CAS#</b> 112-27-6	<b>Parameter</b> <b>Triethylene Glycol</b>	<b>Result</b> <b>14900</b>	<b>LOQ</b> <b>5080</b>	<b>Units</b> ug/Kg
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<b>2204844-012B</b>	<b>Collect Date</b> 04/16/2022 09:40	<b>Lab ID</b> 22204230612
	<b>Receive Date</b> 04/22/2022 09:30	<b>Matrix</b> Solid

EPA 8015C \*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	04/28/22 10:37	739343	ARW	3.22

<b>CAS#</b> 112-27-6	<b>Parameter</b> Triethylene Glycol	<b>Result</b> ND	<b>LOQ</b> 5170	<b>Units</b> ug/Kg
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**Report#:** 222042306  
**Project ID:** WG1852399 L1484919

**Report Date:** 04/28/2022

## Sample Results

<b>2204844-013B</b>	<b>Collect Date</b> 04/16/2022 09:40	<b>Lab ID</b> 22204230613
	<b>Receive Date</b> 04/22/2022 09:30	<b>Matrix</b> Solid

EPA 8015C \*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	04/28/22 13:38	739659	ARW	2.02

<b>CAS#</b> 112-27-6	<b>Parameter</b> <b>Triethylene Glycol</b>	<b>Result</b> <b>34800</b>	<b>LOQ</b> <b>5100</b>	<b>Units</b> ug/Kg
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<b>2204844-014B</b>	<b>Collect Date</b> 04/16/2022 09:40	<b>Lab ID</b> 22204230614
	<b>Receive Date</b> 04/22/2022 09:30	<b>Matrix</b> Solid

EPA 8015C \*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	04/28/22 15:11	739659	ARW	1.63

<b>CAS#</b> 112-27-6	<b>Parameter</b> Triethylene Glycol	<b>Result</b> ND	<b>LOQ</b> 5080	<b>Units</b> ug/Kg
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<b>2204844-015B</b>	<b>Collect Date</b> 04/16/2022 09:40	<b>Lab ID</b> 22204230615
	<b>Receive Date</b> 04/22/2022 09:30	<b>Matrix</b> Solid

EPA 8015C \*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	04/28/22 13:57	739659	ARW	1.57

<b>CAS#</b> 112-27-6	<b>Parameter</b> Triethylene Glycol	<b>Result</b> ND	<b>LOQ</b> 5080	<b>Units</b> ug/Kg
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<b>2204844-016B</b>	<b>Collect Date</b> 04/16/2022 09:40	<b>Lab ID</b> 22204230616
	<b>Receive Date</b> 04/22/2022 09:30	<b>Matrix</b> Solid

EPA 8015C \*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	04/28/22 14:06	739659	ARW	3.43

<b>CAS#</b> 112-27-6	<b>Parameter</b> Triethylene Glycol	<b>Result</b> ND	<b>LOQ</b> 5180	<b>Units</b> ug/Kg
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**Report#:** 222042306  
**Project ID:** WG1852399 L1484919

**Report Date:** 04/28/2022

## Sample Results

<b>2204844-017B</b>	<b>Collect Date</b> 04/16/2022 09:40	<b>Lab ID</b> 22204230617
	<b>Receive Date</b> 04/22/2022 09:30	<b>Matrix</b> Solid

EPA 8015C \*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	04/28/22 14:15	739659	ARW	1.35

<b>CAS#</b> 112-27-6	<b>Parameter</b> Triethylene Glycol	<b>Result</b> ND	<b>LOQ</b> 5070	<b>Units</b> ug/Kg
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<b>2204844-018B</b>	<b>Collect Date</b> 04/16/2022 09:40	<b>Lab ID</b> 22204230618
	<b>Receive Date</b> 04/22/2022 09:30	<b>Matrix</b> Solid

EPA 8015C \*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	04/28/22 14:24	739659	ARW	2.5

<b>CAS#</b> 112-27-6	<b>Parameter</b> Triethylene Glycol	<b>Result</b> ND	<b>LOQ</b> 5130	<b>Units</b> ug/Kg
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<b>2204844-019B</b>	<b>Collect Date</b> 04/16/2022 09:40	<b>Lab ID</b> 22204230619
	<b>Receive Date</b> 04/22/2022 09:30	<b>Matrix</b> Solid

EPA 8015C \*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	04/28/22 14:34	739659	ARW	1.91

<b>CAS#</b> 112-27-6	<b>Parameter</b> Triethylene Glycol	<b>Result</b> ND	<b>LOQ</b> 5100	<b>Units</b> ug/Kg
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<b>2204844-020B</b>	<b>Collect Date</b> 04/16/2022 09:40	<b>Lab ID</b> 22204230620
	<b>Receive Date</b> 04/22/2022 09:30	<b>Matrix</b> Solid

EPA 8015C \*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	04/28/22 14:43	739659	ARW	.95

<b>CAS#</b> 112-27-6	<b>Parameter</b> <b>Triethylene Glycol</b>	<b>Result</b> <b>8860</b>	<b>LOQ</b> <b>5050</b>	<b>Units</b> ug/Kg
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**Report#:** 222042306  
**Project ID:** WG1852399 L1484919

**Report Date:** 04/28/2022

## Sample Results

<b>2204844-021B</b>	<b>Collect Date</b> 04/16/2022 09:40	<b>Lab ID</b> 22204230621
	<b>Receive Date</b> 04/22/2022 09:30	<b>Matrix</b> Solid

EPA 8015C

\*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	04/28/22 14:51	739659	ARW	2.42

CAS#	Parameter	Result	LOQ		Units
112-27-6	Triethylene Glycol	ND	5120		ug/Kg



**Report#:** 222042306  
**Project ID:** WG1852399 L1484919

**Report Date:** 04/28/2022

## GC Semi-Volatiles QC Summary

<b>Analytical Batch</b> 739343		Client ID MB739343	Lab ID 2337650	LCS739343 2337651 LCS NA			LCSD739343 2338593 LCSD NA					
		Sample Type MB	Prep Date NA	04/28/22 09:26			04/28/22 09:36					
		Analysis Date 04/28/22 10:00	Matrix Solid	Solid			Solid					
<b>EPA 8015C</b>		Units Result	ug/Kg LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Triethylene Glycol	112-27-6	ND	5000	62500	65900	105	40 - 140	62500	49700	80	28	40

<b>Analytical Batch</b> 739659		Client ID MB739659	Lab ID 2339442	LCS739659 2339443 LCS NA			LCSD739659 2339444 LCSD NA					
		Sample Type MB	Prep Date NA	04/28/22 12:58			04/28/22 13:07					
		Analysis Date 04/28/22 13:29	Matrix Solid	Solid			Solid					
<b>EPA 8015C</b>		Units Result	ug/Kg LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Triethylene Glycol	112-27-6	ND	5000	62500	54500	87	40 - 140	62500	51700	83	5	40







# SAMPLE RECEIVING CHECKLIST



SAMPLE DELIVERY GROUP 222042306		CHECKLIST		YES	NO
<b>Client</b> 4367 - Pace Analytical Services	<b>PM R/W</b> R/W	<b>Transport Method</b> FEDEX	Samples received with proper thermal preservation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Profile Number</b> 297536	<b>Received By</b> Roberts, George S.		Radioactivity is <1600 cpm? If no, record cpm value in notes section.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Line Item(s)</b> 1 - Glycol - Soil	<b>Receive Date(s)</b> 04/22/22		COC relinquished and complete (including sampleIDs, collect times, and sampler)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			All containers received in good condition and within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			All sample labels and containers received match the chain of custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Preservative added to any containers?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			If received, was headspace for VOC water containers < 6mm?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Samples collected in containers provided by Pace Gulf Coast?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COOLERS		DISCREPANCIES	LAB PRESERVATIONS		
<b>Airbill</b> 571961810120	<b>Thermometer ID:</b> E34	<b>Temp °C</b> 3.7	None	None	
<b>NOTES</b>					

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2204844

03-May-22

**Client:** Devon Energy  
**Project:** Falcon Compressor Station

Sample ID: <b>MB-67027</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67027</b>	RunNo: <b>87446</b>								
Prep Date: <b>4/22/2022</b>	Analysis Date: <b>4/22/2022</b>	SeqNo: <b>3094513</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-67027</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67027</b>	RunNo: <b>87446</b>								
Prep Date: <b>4/22/2022</b>	Analysis Date: <b>4/23/2022</b>	SeqNo: <b>3094514</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.5	90	110			

Sample ID: <b>MB-67043</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67043</b>	RunNo: <b>87477</b>								
Prep Date: <b>4/25/2022</b>	Analysis Date: <b>4/25/2022</b>	SeqNo: <b>3096784</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-67043</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67043</b>	RunNo: <b>87477</b>								
Prep Date: <b>4/25/2022</b>	Analysis Date: <b>4/25/2022</b>	SeqNo: <b>3096785</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	90	110			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2204844

03-May-22

**Client:** Devon Energy  
**Project:** Falcon Compressor Station

Sample ID: <b>LCS-66957</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66957</b>	RunNo: <b>87442</b>								
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/21/2022</b>	SeqNo: <b>3093764</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.0	68.9	135			
Surr: DNOP	3.9		5.000		77.2	51.1	141			

Sample ID: <b>MB-66957</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66957</b>	RunNo: <b>87453</b>								
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/22/2022</b>	SeqNo: <b>3094095</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		105	51.1	141			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2204844

03-May-22

**Client:** Devon Energy  
**Project:** Falcon Compressor Station

Sample ID: <b>mb-66955</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66955</b>	RunNo: <b>87428</b>								
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/21/2022</b>	SeqNo: <b>3092876</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		94.8	37.7	212			

Sample ID: <b>ics-66955</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66955</b>	RunNo: <b>87428</b>								
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/21/2022</b>	SeqNo: <b>3092888</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	72.3	137			
Surr: BFB	2000		1000		204	37.7	212			

Sample ID: <b>2204844-001ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH22-01 0'</b>	Batch ID: <b>66955</b>	RunNo: <b>87428</b>								
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/21/2022</b>	SeqNo: <b>3092908</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	47	25	24.83	19.98	107	70	130			
Surr: BFB	6100		4965		124	37.7	212			

Sample ID: <b>2204844-001amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH22-01 0'</b>	Batch ID: <b>66955</b>	RunNo: <b>87428</b>								
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/21/2022</b>	SeqNo: <b>3092917</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	42	25	24.58	19.98	88.9	70	130	10.7	20	
Surr: BFB	5900		4916		119	37.7	212	0	0	

Sample ID: <b>ics-66961</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66961</b>	RunNo: <b>87430</b>								
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/21/2022</b>	SeqNo: <b>3093143</b>	Units: <b>mg/Kg</b>							
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	2200		1000		222	37.7	212			S

Sample ID: <b>mb-66961</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66961</b>	RunNo: <b>87430</b>								
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/21/2022</b>	SeqNo: <b>3093144</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

**Qualifiers:**

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204844

03-May-22

**Client:** Devon Energy  
**Project:** Falcon Compressor Station

Sample ID: <b>mb-66961</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66961</b>	RunNo: <b>87430</b>								
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/21/2022</b>	SeqNo: <b>3093144</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	37.7	212			

Sample ID: <b>2204844-021ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH22-07 4'</b>	Batch ID: <b>66961</b>	RunNo: <b>87430</b>								
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/21/2022</b>	SeqNo: <b>3093154</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	5.0	24.75	0	131	70	130			S
Surr: BFB	2400		990.1		246	37.7	212			S

Sample ID: <b>2204844-021amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH22-07 4'</b>	Batch ID: <b>66961</b>	RunNo: <b>87430</b>								
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/21/2022</b>	SeqNo: <b>3093155</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.9	24.58	0	119	70	130	10.4	20	
Surr: BFB	2300		983.3		234	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2204844

03-May-22

**Client:** Devon Energy  
**Project:** Falcon Compressor Station

Sample ID: <b>mb-66955</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66955</b>	RunNo: <b>87428</b>								
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/21/2022</b>	SeqNo: <b>3093075</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.3	70	130			

Sample ID: <b>LCS-66955</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66955</b>	RunNo: <b>87428</b>								
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/21/2022</b>	SeqNo: <b>3093076</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	82.9	80	120			
Toluene	0.88	0.050	1.000	0	88.0	80	120			
Ethylbenzene	0.89	0.050	1.000	0	89.2	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: <b>2204844-002ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>BH22-01 1'</b>	Batch ID: <b>66955</b>	RunNo: <b>87428</b>								
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/21/2022</b>	SeqNo: <b>3093079</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.024	0.9775	0	91.2	68.8	120			
Toluene	0.95	0.049	0.9775	0.01255	95.7	73.6	124			
Ethylbenzene	0.97	0.049	0.9775	0	99.5	72.7	129			
Xylenes, Total	2.9	0.098	2.933	0.03073	98.7	75.7	126			
Surr: 4-Bromofluorobenzene	0.98		0.9775		99.8	70	130			

Sample ID: <b>2204844-002amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>BH22-01 1'</b>	Batch ID: <b>66955</b>	RunNo: <b>87428</b>								
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/21/2022</b>	SeqNo: <b>3093080</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	0.9804	0	88.9	68.8	120	2.23	20	
Toluene	0.92	0.049	0.9804	0.01255	93.0	73.6	124	2.47	20	
Ethylbenzene	0.96	0.049	0.9804	0	98.0	72.7	129	1.28	20	
Xylenes, Total	2.9	0.098	2.941	0.03073	96.9	75.7	126	1.57	20	
Surr: 4-Bromofluorobenzene	0.98		0.9804		100	70	130	0	0	

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2204844

03-May-22

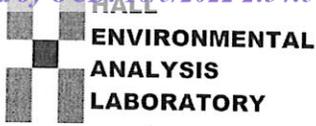
**Client:** Devon Energy  
**Project:** Falcon Compressor Station

Sample ID: <b>ics-66961</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>66961</b>		RunNo: <b>87430</b>							
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/21/2022</b>		SeqNo: <b>3093183</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	82.7	80	120			
Toluene	0.85	0.050	1.000	0	84.6	80	120			
Ethylbenzene	0.86	0.050	1.000	0	85.9	80	120			
Xylenes, Total	2.6	0.10	3.000	0	86.4	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.0	70	130			

Sample ID: <b>mb-66961</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>66961</b>		RunNo: <b>87430</b>							
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/21/2022</b>		SeqNo: <b>3093184</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.83		1.000		83.4	70	130			

**Qualifiers:**

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



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: 2204844

RcptNo: 1

Received By: Tracy Casarrubias 4/20/2022 7:40:00 AM

Completed By: Tracy Casarrubias 4/20/2022 8:24:10 AM

Reviewed By: DAD 4/20/22

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [ ] Not Present [ ]
2. How was the sample delivered? Courier

Log In

- 3. Was an attempt made to cool the samples? Yes [checked] No [ ] NA [ ]
4. Were all samples received at a temperature of >0° C to 6.0°C Yes [checked] No [ ] NA [ ]
5. Sample(s) in proper container(s)? Yes [checked] No [ ]
6. Sufficient sample volume for indicated test(s)? Yes [checked] No [ ]
7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No [ ]
8. Was preservative added to bottles? Yes [ ] No [checked] NA [ ]
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [ ] No [ ] NA [checked]
10. Were any sample containers received broken? Yes [ ] No [checked]
11. Does paperwork match bottle labels? Yes [checked] No [ ]
12. Are matrices correctly identified on Chain of Custody? Yes [checked] No [ ]
13. Is it clear what analyses were requested? Yes [checked] No [ ]
14. Were all holding times able to be met? Yes [checked] No [ ]

# of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: [signature] 4/20/22

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [checked]

Person Notified: [ ] Date: [ ]
By Whom: [ ] Via: [ ] eMail [ ] Phone [ ] Fax [ ] In Person [ ]
Regarding: [ ]
Client Instructions: [ ]

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Rows 1 and 2.







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

August 18, 2022

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Falcon Compressor Station

OrderNo.: 2208801

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 11 sample(s) on 8/12/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report**

Lab Order **2208801**

Date Reported: **8/18/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS22-11

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 9:30:00 AM

**Lab ID:** 2208801-001

**Matrix:** SOIL

**Received Date:** 8/12/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	55	15		mg/Kg	1	8/16/2022 9:09:47 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/16/2022 9:09:47 AM
Surr: DNOP	97.8	21-129		%Rec	1	8/16/2022 9:09:47 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/15/2022 1:16:00 PM
Surr: BFB	108	37.7-212		%Rec	1	8/15/2022 1:16:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	8/15/2022 1:16:00 PM
Toluene	ND	0.049		mg/Kg	1	8/15/2022 1:16:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	8/15/2022 1:16:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	8/15/2022 1:16:00 PM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	8/15/2022 1:16:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	ND	61		mg/Kg	20	8/15/2022 8:33:56 PM

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

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

**Analytical Report**

Lab Order **2208801**

Date Reported: **8/18/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS22-12

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 9:35:00 AM

**Lab ID:** 2208801-002

**Matrix:** SOIL

**Received Date:** 8/12/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	8/16/2022 9:34:15 AM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	8/16/2022 9:34:15 AM
Surr: DNOP	92.6	21-129		%Rec	1	8/16/2022 9:34:15 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/15/2022 2:15:00 PM
Surr: BFB	109	37.7-212		%Rec	1	8/15/2022 2:15:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	8/15/2022 2:15:00 PM
Toluene	ND	0.049		mg/Kg	1	8/15/2022 2:15:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	8/15/2022 2:15:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	8/15/2022 2:15:00 PM
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	8/15/2022 2:15:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	8/15/2022 8:46:17 PM

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

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

**Analytical Report**

Lab Order **2208801**

Date Reported: **8/18/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS22-13

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 9:40:00 AM

**Lab ID:** 2208801-003

**Matrix:** SOIL

**Received Date:** 8/12/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/16/2022 9:58:29 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/16/2022 9:58:29 AM
Surr: DNOP	85.9	21-129		%Rec	1	8/16/2022 9:58:29 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/15/2022 3:15:00 PM
Surr: BFB	98.3	37.7-212		%Rec	1	8/15/2022 3:15:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	8/15/2022 3:15:00 PM
Toluene	ND	0.049		mg/Kg	1	8/15/2022 3:15:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	8/15/2022 3:15:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	8/15/2022 3:15:00 PM
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	8/15/2022 3:15:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	8/15/2022 9:23:20 PM

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

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

**Analytical Report**

Lab Order **2208801**

Date Reported: **8/18/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS22-14

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 9:45:00 AM

**Lab ID:** 2208801-004

**Matrix:** SOIL

**Received Date:** 8/12/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/16/2022 10:22:50 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/16/2022 10:22:50 AM
Surr: DNOP	82.1	21-129		%Rec	1	8/16/2022 10:22:50 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/15/2022 3:34:00 PM
Surr: BFB	100	37.7-212		%Rec	1	8/15/2022 3:34:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	8/15/2022 3:34:00 PM
Toluene	ND	0.048		mg/Kg	1	8/15/2022 3:34:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	8/15/2022 3:34:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	8/15/2022 3:34:00 PM
Surr: 4-Bromofluorobenzene	97.5	70-130		%Rec	1	8/15/2022 3:34:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	8/15/2022 9:35:41 PM

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

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

**Analytical Report**

Lab Order **2208801**

Date Reported: **8/18/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS22-15

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 9:50:00 AM

**Lab ID:** 2208801-005

**Matrix:** SOIL

**Received Date:** 8/12/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/16/2022 10:47:00 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/16/2022 10:47:00 AM
Surr: DNOP	85.3	21-129		%Rec	1	8/16/2022 10:47:00 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/15/2022 3:54:00 PM
Surr: BFB	100	37.7-212		%Rec	1	8/15/2022 3:54:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	8/15/2022 3:54:00 PM
Toluene	ND	0.048		mg/Kg	1	8/15/2022 3:54:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	8/15/2022 3:54:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	8/15/2022 3:54:00 PM
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	1	8/15/2022 3:54:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	8/15/2022 9:48:02 PM

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

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

**Analytical Report**

Lab Order **2208801**

Date Reported: **8/18/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS22-09

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 9:55:00 AM

**Lab ID:** 2208801-006

**Matrix:** SOIL

**Received Date:** 8/12/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/16/2022 11:11:24 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/16/2022 11:11:24 AM
Surr: DNOP	82.3	21-129		%Rec	1	8/16/2022 11:11:24 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/15/2022 4:14:00 PM
Surr: BFB	103	37.7-212		%Rec	1	8/15/2022 4:14:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	8/15/2022 4:14:00 PM
Toluene	ND	0.049		mg/Kg	1	8/15/2022 4:14:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	8/15/2022 4:14:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	8/15/2022 4:14:00 PM
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	8/15/2022 4:14:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	8/15/2022 10:00:23 PM

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

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

**Analytical Report**

Lab Order **2208801**

Date Reported: **8/18/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS22-10

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 10:00:00 AM

**Lab ID:** 2208801-007

**Matrix:** SOIL

**Received Date:** 8/12/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	8/16/2022 11:35:44 AM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	8/16/2022 11:35:44 AM
Surr: DNOP	88.5	21-129		%Rec	1	8/16/2022 11:35:44 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/15/2022 4:34:00 PM
Surr: BFB	106	37.7-212		%Rec	1	8/15/2022 4:34:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	8/15/2022 4:34:00 PM
Toluene	ND	0.047		mg/Kg	1	8/15/2022 4:34:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	8/15/2022 4:34:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	8/15/2022 4:34:00 PM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	8/15/2022 4:34:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	8/15/2022 10:12:43 PM

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

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

**Analytical Report**

Lab Order **2208801**

Date Reported: **8/18/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS22-11

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 10:05:00 AM

**Lab ID:** 2208801-008

**Matrix:** SOIL

**Received Date:** 8/12/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/16/2022 12:00:15 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/16/2022 12:00:15 PM
Surr: DNOP	93.4	21-129		%Rec	1	8/16/2022 12:00:15 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/15/2022 4:54:00 PM
Surr: BFB	105	37.7-212		%Rec	1	8/15/2022 4:54:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	8/15/2022 4:54:00 PM
Toluene	ND	0.050		mg/Kg	1	8/15/2022 4:54:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/15/2022 4:54:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	8/15/2022 4:54:00 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	8/15/2022 4:54:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	8/15/2022 10:25:04 PM

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

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

**Analytical Report**

Lab Order **2208801**

Date Reported: **8/18/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS22-12

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 10:10:00 AM

**Lab ID:** 2208801-009

**Matrix:** SOIL

**Received Date:** 8/12/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/16/2022 12:24:46 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	8/16/2022 12:24:46 PM
Surr: DNOP	92.1	21-129		%Rec	1	8/16/2022 12:24:46 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/15/2022 5:14:00 PM
Surr: BFB	99.0	37.7-212		%Rec	1	8/15/2022 5:14:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	8/15/2022 5:14:00 PM
Toluene	ND	0.050		mg/Kg	1	8/15/2022 5:14:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/15/2022 5:14:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	8/15/2022 5:14:00 PM
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	8/15/2022 5:14:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	8/15/2022 10:37:24 PM

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

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

**Analytical Report**

Lab Order **2208801**

Date Reported: **8/18/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS22-13

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 10:15:00 AM

**Lab ID:** 2208801-010

**Matrix:** SOIL

**Received Date:** 8/12/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/16/2022 12:49:22 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/16/2022 12:49:22 PM
Surr: DNOP	91.0	21-129		%Rec	1	8/16/2022 12:49:22 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/15/2022 5:34:00 PM
Surr: BFB	102	37.7-212		%Rec	1	8/15/2022 5:34:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	8/15/2022 5:34:00 PM
Toluene	ND	0.050		mg/Kg	1	8/15/2022 5:34:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/15/2022 5:34:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	8/15/2022 5:34:00 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	8/15/2022 5:34:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	ND	59		mg/Kg	20	8/15/2022 10:49:45 PM

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

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

**Analytical Report**

Lab Order **2208801**

Date Reported: **8/18/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS22-14

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 10:20:00 AM

**Lab ID:** 2208801-011

**Matrix:** SOIL

**Received Date:** 8/12/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/16/2022 1:13:47 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/16/2022 1:13:47 PM
Surr: DNOP	94.7	21-129		%Rec	1	8/16/2022 1:13:47 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/15/2022 6:13:00 PM
Surr: BFB	105	37.7-212		%Rec	1	8/15/2022 6:13:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	8/15/2022 6:13:00 PM
Toluene	ND	0.047		mg/Kg	1	8/15/2022 6:13:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	8/15/2022 6:13:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	8/15/2022 6:13:00 PM
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	1	8/15/2022 6:13:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	8/15/2022 11:02:05 PM

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

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2208801

18-Aug-22

**Client:** Vertex Resources Services, Inc.

**Project:** Falcon Compressor Station

Sample ID: <b>MB-69500</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>69500</b>	RunNo: <b>90282</b>								
Prep Date: <b>8/15/2022</b>	Analysis Date: <b>8/15/2022</b>	SeqNo: <b>3220689</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-69500</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>69500</b>	RunNo: <b>90282</b>								
Prep Date: <b>8/15/2022</b>	Analysis Date: <b>8/15/2022</b>	SeqNo: <b>3220690</b>	Units: <b>mg/Kg</b>							
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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2208801

18-Aug-22

**Client:** Vertex Resources Services, Inc.

**Project:** Falcon Compressor Station

Sample ID: <b>MB-69473</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>69473</b>		RunNo: <b>90276</b>							
Prep Date: <b>8/12/2022</b>	Analysis Date: <b>8/16/2022</b>		SeqNo: <b>3221171</b>	Units: <b>%Rec</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.3		10.00		83.1	21	129			

Sample ID: <b>LCS-69473</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>69473</b>		RunNo: <b>90276</b>							
Prep Date: <b>8/12/2022</b>	Analysis Date: <b>8/16/2022</b>		SeqNo: <b>3221173</b>	Units: <b>%Rec</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		86.6	21	129			

Sample ID: <b>MB-69507</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>69507</b>		RunNo: <b>90304</b>							
Prep Date: <b>8/15/2022</b>	Analysis Date: <b>8/16/2022</b>		SeqNo: <b>3221327</b>	Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		97.0	21	129			

Sample ID: <b>LCS-69507</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>69507</b>		RunNo: <b>90304</b>							
Prep Date: <b>8/15/2022</b>	Analysis Date: <b>8/16/2022</b>		SeqNo: <b>3221328</b>	Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	15	50.00	0	86.2	64.4	127			
Surr: DNOP	4.2		5.000		84.1	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2208801

18-Aug-22

**Client:** Vertex Resources Services, Inc.

**Project:** Falcon Compressor Station

Sample ID: <b>ics-69476</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>69476</b>		RunNo: <b>90314</b>							
Prep Date: <b>8/12/2022</b>	Analysis Date: <b>8/15/2022</b>		SeqNo: <b>3221639</b>		Units: <b>mg/Kg</b>					
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	2300		1000		228	37.7	212			S

Sample ID: <b>mb-69476</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>69476</b>		RunNo: <b>90314</b>							
Prep Date: <b>8/12/2022</b>	Analysis Date: <b>8/15/2022</b>		SeqNo: <b>3221640</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		104	37.7	212			

Sample ID: <b>2208801-001ams</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>BS22-11</b>	Batch ID: <b>69476</b>		RunNo: <b>90314</b>							
Prep Date: <b>8/12/2022</b>	Analysis Date: <b>8/15/2022</b>		SeqNo: <b>3221642</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8	24.04	0	97.4	70	130			
Surr: BFB	2100		961.5		215	37.7	212			S

Sample ID: <b>2208801-001amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>BS22-11</b>	Batch ID: <b>69476</b>		RunNo: <b>90314</b>							
Prep Date: <b>8/12/2022</b>	Analysis Date: <b>8/15/2022</b>		SeqNo: <b>3221643</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	23.83	0	101	70	130	2.29	20	
Surr: BFB	2200		953.3		229	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2208801

18-Aug-22

**Client:** Vertex Resources Services, Inc.

**Project:** Falcon Compressor Station

Sample ID: <b>ics-69476</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>69476</b>		RunNo: <b>90314</b>							
Prep Date: <b>8/12/2022</b>	Analysis Date: <b>8/15/2022</b>		SeqNo: <b>3221663</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.2	80	120			
Toluene	0.92	0.050	1.000	0	92.0	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Sample ID: <b>mb-69476</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>69476</b>		RunNo: <b>90314</b>							
Prep Date: <b>8/12/2022</b>	Analysis Date: <b>8/15/2022</b>		SeqNo: <b>3221664</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: <b>2208801-002ams</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>BS22-12</b>	Batch ID: <b>69476</b>		RunNo: <b>90314</b>							
Prep Date: <b>8/12/2022</b>	Analysis Date: <b>8/15/2022</b>		SeqNo: <b>3221667</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9653	0	90.1	68.8	120			
Toluene	0.90	0.048	0.9653	0	92.9	73.6	124			
Ethylbenzene	0.91	0.048	0.9653	0	94.3	72.7	129			
Xylenes, Total	2.7	0.097	2.896	0	94.6	75.7	126			
Surr: 4-Bromofluorobenzene	0.97		0.9653		101	70	130			

Sample ID: <b>2208801-002amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>BS22-12</b>	Batch ID: <b>69476</b>		RunNo: <b>90314</b>							
Prep Date: <b>8/12/2022</b>	Analysis Date: <b>8/15/2022</b>		SeqNo: <b>3221668</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.024	0.9597	0	84.4	68.8	120	7.08	20	
Toluene	0.83	0.048	0.9597	0	86.3	73.6	124	8.03	20	
Ethylbenzene	0.85	0.048	0.9597	0	88.5	72.7	129	6.90	20	
Xylenes, Total	2.5	0.096	2.879	0	88.5	75.7	126	7.22	20	
Surr: 4-Bromofluorobenzene	0.98		0.9597		102	70	130	0	0	

**Qualifiers:**

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



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: 2208801 RcptNo: 1

Received By: Juan Rojas 8/12/2022 7:20:00 AM
Completed By: Cheyenne Cason 8/12/2022 8:00:37 AM
Reviewed By: TMC 8/12/22

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [ ] Not Present [ ]
2. How was the sample delivered? Courier

Log In

- 3. Was an attempt made to cool the samples? Yes [checked] No [ ] NA [ ]
4. Were all samples received at a temperature of >0° C to 6.0°C Yes [checked] No [ ] NA [ ]
5. Sample(s) in proper container(s)? Yes [checked] No [ ]
6. Sufficient sample volume for indicated test(s)? Yes [checked] No [ ]
7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No [ ]
8. Was preservative added to bottles? Yes [ ] No [checked] NA [ ]
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [ ] No [ ] NA [checked]
10. Were any sample containers received broken? Yes [ ] No [checked]
11. Does paperwork match bottle labels? Yes [checked] No [ ]
12. Are matrices correctly identified on Chain of Custody? Yes [checked] No [ ]
13. Is it clear what analyses were requested? Yes [checked] No [ ]
14. Were all holding times able to be met? Yes [checked] No [ ]

# of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: JN 8/12/22

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [checked]

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_
By Whom: \_\_\_\_\_ Via: [ ] eMail [ ] Phone [ ] Fax [ ] In Person
Regarding: \_\_\_\_\_
Client Instructions: \_\_\_\_\_

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 0.5, Good, Not Present, , ,

# Chain-of-Custody Record

Client: Devon Vertice

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 2-Day

Project Name: Falcon Compressor Station

Project #: 22E-009241

Project Manager:

K. Stealings

Sampler: M. Miller

On Ice:  Yes  No

# of Coolers: 1

Cooler Temp (including CF): 05-0=05 (°C)

Container Type and #	Preservative Type	HEAL No.
<u>402</u>	<u>ice</u>	<u>2208801</u>

Container Type and #

Preservative Type

HEAL No.

Date	Time	Matrix	Sample Name
<u>8-5-22</u>	<u>9:30</u>	<u>Soil</u>	<u>B522-11</u>
	<u>9:35</u>		<u>B522-12</u>
	<u>9:40</u>		<u>B522-13</u>
	<u>9:45</u>		<u>B522-14</u>
	<u>9:50</u>		<u>B522-15</u>
	<u>9:55</u>		<u>W522-09</u>
	<u>10:00</u>		<u>W522-10</u>
	<u>10:05</u>		<u>W522-11</u>
	<u>10:10</u>		<u>W522-12</u>
	<u>10:15</u>		<u>W522-13</u>
	<u>10:20</u>		<u>W522-14</u>

Relinquished by:

Via:

Date Time

Received by:

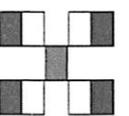
Via:

Date Time

Relinquished by: M. Miller  
Received by: M. Miller  
Via: Hand  
Date Time: 8/12/22 7:20

Remarks:

BTEX / MTBE / TMB's (8021)  
TPH:8015D(GRO / DRO / MRO)  
8081 Pesticides/8082 PCB's  
EDB (Method 504.1)  
PAHs by 8310 or 8270SIMS  
RCRA 8 Metals  
Cl, F, Br, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>  
8260 (VOA)  
8270 (Semi-VOA)  
Total Coliform (Present/Absent)



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request



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

August 26, 2022

Kent Stallings

Devon Energy

6488 Seven Rivers Highway

Artesia, NM 88210

TEL: (505) 350-1336

FAX:

RE: Falcon Compressor Station

OrderNo.: 2208690

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 18 sample(s) on 8/11/2022 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report**

Lab Order **2208690**

Date Reported: **8/26/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BS22-01 2'

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 9:30:00 AM

**Lab ID:** 2208690-001

**Matrix:** SOIL

**Received Date:** 8/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	77	14		mg/Kg	1	8/12/2022 11:44:06 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/12/2022 11:44:06 AM
Surr: DNOP	104	21-129		%Rec	1	8/12/2022 11:44:06 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/12/2022 5:16:00 PM
Surr: BFB	88.1	37.7-212		%Rec	1	8/12/2022 5:16:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	8/12/2022 5:16:00 PM
Toluene	ND	0.047		mg/Kg	1	8/12/2022 5:16:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	8/12/2022 5:16:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	8/12/2022 5:16:00 PM
Surr: 4-Bromofluorobenzene	78.2	70-130		%Rec	1	8/12/2022 5:16:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	8/13/2022 3:48:51 PM

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

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

**Analytical Report**

Lab Order **2208690**

Date Reported: **8/26/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BS22-02 2'

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 9:35:00 AM

**Lab ID:** 2208690-002

**Matrix:** SOIL

**Received Date:** 8/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	4700	150		mg/Kg	10	8/15/2022 3:31:44 PM
Motor Oil Range Organics (MRO)	ND	480	D	mg/Kg	10	8/15/2022 3:31:44 PM
Surr: DNOP	0	21-129	S	%Rec	10	8/15/2022 3:31:44 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/12/2022 6:16:00 PM
Surr: BFB	86.1	37.7-212		%Rec	1	8/12/2022 6:16:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	8/12/2022 6:16:00 PM
Toluene	ND	0.050		mg/Kg	1	8/12/2022 6:16:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/12/2022 6:16:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	8/12/2022 6:16:00 PM
Surr: 4-Bromofluorobenzene	77.5	70-130		%Rec	1	8/12/2022 6:16:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	130	60		mg/Kg	20	8/13/2022 4:50:36 PM

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

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

**Analytical Report**

Lab Order **2208690**

Date Reported: **8/26/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BS22-03 2'

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 9:40:00 AM

**Lab ID:** 2208690-003

**Matrix:** SOIL

**Received Date:** 8/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/12/2022 8:21:39 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/12/2022 8:21:39 PM
Surr: DNOP	92.4	21-129		%Rec	1	8/12/2022 8:21:39 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/12/2022 7:15:00 PM
Surr: BFB	84.9	37.7-212		%Rec	1	8/12/2022 7:15:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	8/12/2022 7:15:00 PM
Toluene	ND	0.049		mg/Kg	1	8/12/2022 7:15:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	8/12/2022 7:15:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	8/12/2022 7:15:00 PM
Surr: 4-Bromofluorobenzene	76.2	70-130		%Rec	1	8/12/2022 7:15:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	8/13/2022 5:02:56 PM

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

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

**Analytical Report**

Lab Order **2208690**

Date Reported: **8/26/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BS22-04 2'

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 9:45:00 AM

**Lab ID:** 2208690-004

**Matrix:** SOIL

**Received Date:** 8/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	3100	140		mg/Kg	10	8/13/2022 2:41:15 PM
Motor Oil Range Organics (MRO)	ND	470	D	mg/Kg	10	8/13/2022 2:41:15 PM
Surr: DNOP	0	21-129	S	%Rec	10	8/13/2022 2:41:15 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/12/2022 7:35:00 PM
Surr: BFB	84.1	37.7-212		%Rec	1	8/12/2022 7:35:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	8/12/2022 7:35:00 PM
Toluene	ND	0.048		mg/Kg	1	8/12/2022 7:35:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	8/12/2022 7:35:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	8/12/2022 7:35:00 PM
Surr: 4-Bromofluorobenzene	77.1	70-130		%Rec	1	8/12/2022 7:35:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	120	60		mg/Kg	20	8/13/2022 5:15:17 PM

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

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

**Analytical Report**

Lab Order **2208690**

Date Reported: **8/26/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BS22-05 2'

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 9:50:00 AM

**Lab ID:** 2208690-005

**Matrix:** SOIL

**Received Date:** 8/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	320	14		mg/Kg	1	8/12/2022 9:59:20 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/12/2022 9:59:20 PM
Surr: DNOP	95.4	21-129		%Rec	1	8/12/2022 9:59:20 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/12/2022 7:55:00 PM
Surr: BFB	85.9	37.7-212		%Rec	1	8/12/2022 7:55:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	8/12/2022 7:55:00 PM
Toluene	ND	0.050		mg/Kg	1	8/12/2022 7:55:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/12/2022 7:55:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	8/12/2022 7:55:00 PM
Surr: 4-Bromofluorobenzene	77.5	70-130		%Rec	1	8/12/2022 7:55:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	ND	59		mg/Kg	20	8/13/2022 5:27:38 PM

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

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

**Analytical Report**

Lab Order **2208690**

Date Reported: **8/26/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BS22-06 2'

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 9:55:00 AM

**Lab ID:** 2208690-006

**Matrix:** SOIL

**Received Date:** 8/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						
Analyst: <b>SB</b>						
Diesel Range Organics (DRO)	1000	150		mg/Kg	10	8/13/2022 3:05:44 PM
Motor Oil Range Organics (MRO)	ND	490	D	mg/Kg	10	8/13/2022 3:05:44 PM
Surr: DNOP	0	21-129	S	%Rec	10	8/13/2022 3:05:44 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						
Analyst: <b>BRM</b>						
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/12/2022 8:14:00 PM
Surr: BFB	86.4	37.7-212		%Rec	1	8/12/2022 8:14:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						
Analyst: <b>BRM</b>						
Benzene	ND	0.024		mg/Kg	1	8/12/2022 8:14:00 PM
Toluene	ND	0.049		mg/Kg	1	8/12/2022 8:14:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	8/12/2022 8:14:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	8/12/2022 8:14:00 PM
Surr: 4-Bromofluorobenzene	79.1	70-130		%Rec	1	8/12/2022 8:14:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						
Analyst: <b>CAS</b>						
Chloride	170	60		mg/Kg	20	8/13/2022 6:12:41 PM

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

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

**Analytical Report**

Lab Order **2208690**

Date Reported: **8/26/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BS22-07 2'

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 10:00:00 AM

**Lab ID:** 2208690-007

**Matrix:** SOIL

**Received Date:** 8/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	1100	140		mg/Kg	10	8/13/2022 3:30:17 PM
Motor Oil Range Organics (MRO)	ND	480	D	mg/Kg	10	8/13/2022 3:30:17 PM
Surr: DNOP	0	21-129	S	%Rec	10	8/13/2022 3:30:17 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/12/2022 8:34:00 PM
Surr: BFB	87.8	37.7-212		%Rec	1	8/12/2022 8:34:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	8/12/2022 8:34:00 PM
Toluene	ND	0.048		mg/Kg	1	8/12/2022 8:34:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	8/12/2022 8:34:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	8/12/2022 8:34:00 PM
Surr: 4-Bromofluorobenzene	77.5	70-130		%Rec	1	8/12/2022 8:34:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	110	60		mg/Kg	20	8/13/2022 7:14:43 PM

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

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

**Analytical Report**

Lab Order **2208690**

Date Reported: **8/26/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BS22-08 2'

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 10:05:00 AM

**Lab ID:** 2208690-008

**Matrix:** SOIL

**Received Date:** 8/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	1400	150		mg/Kg	10	8/13/2022 3:54:46 PM
Motor Oil Range Organics (MRO)	ND	500	D	mg/Kg	10	8/13/2022 3:54:46 PM
Surr: DNOP	0	21-129	S	%Rec	10	8/13/2022 3:54:46 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/12/2022 8:54:00 PM
Surr: BFB	83.2	37.7-212		%Rec	1	8/12/2022 8:54:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	8/12/2022 8:54:00 PM
Toluene	ND	0.048		mg/Kg	1	8/12/2022 8:54:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	8/12/2022 8:54:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	8/12/2022 8:54:00 PM
Surr: 4-Bromofluorobenzene	74.4	70-130		%Rec	1	8/12/2022 8:54:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	160	60		mg/Kg	20	8/13/2022 7:27:07 PM

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

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

**Analytical Report**

Lab Order **2208690**

Date Reported: **8/26/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BS22-09 2'

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 10:10:00 AM

**Lab ID:** 2208690-009

**Matrix:** SOIL

**Received Date:** 8/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/12/2022 11:37:53 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/12/2022 11:37:53 PM
Surr: DNOP	95.8	21-129		%Rec	1	8/12/2022 11:37:53 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/12/2022 9:14:00 PM
Surr: BFB	85.2	37.7-212		%Rec	1	8/12/2022 9:14:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	8/12/2022 9:14:00 PM
Toluene	ND	0.050		mg/Kg	1	8/12/2022 9:14:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/12/2022 9:14:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	8/12/2022 9:14:00 PM
Surr: 4-Bromofluorobenzene	77.1	70-130		%Rec	1	8/12/2022 9:14:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	8/13/2022 7:39:31 PM

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

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

**Analytical Report**

Lab Order **2208690**

Date Reported: **8/26/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BS22-10 2'

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 10:15:00 AM

**Lab ID:** 2208690-010

**Matrix:** SOIL

**Received Date:** 8/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	80	15		mg/Kg	1	8/13/2022 12:27:05 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/13/2022 12:27:05 AM
Surr: DNOP	99.3	21-129		%Rec	1	8/13/2022 12:27:05 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/12/2022 9:33:00 PM
Surr: BFB	87.1	37.7-212		%Rec	1	8/12/2022 9:33:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	8/12/2022 9:33:00 PM
Toluene	ND	0.050		mg/Kg	1	8/12/2022 9:33:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/12/2022 9:33:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	8/12/2022 9:33:00 PM
Surr: 4-Bromofluorobenzene	79.0	70-130		%Rec	1	8/12/2022 9:33:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	8/13/2022 7:51:55 PM

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

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

**Analytical Report**

Lab Order **2208690**

Date Reported: **8/26/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** WS22-01 0-2'

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 10:45:00 AM

**Lab ID:** 2208690-011

**Matrix:** SOIL

**Received Date:** 8/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/13/2022 12:51:40 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/13/2022 12:51:40 AM
Surr: DNOP	92.7	21-129		%Rec	1	8/13/2022 12:51:40 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/12/2022 10:13:00 PM
Surr: BFB	91.6	37.7-212		%Rec	1	8/12/2022 10:13:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	8/12/2022 10:13:00 PM
Toluene	ND	0.048		mg/Kg	1	8/12/2022 10:13:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	8/12/2022 10:13:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	8/12/2022 10:13:00 PM
Surr: 4-Bromofluorobenzene	81.9	70-130		%Rec	1	8/12/2022 10:13:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	8/13/2022 8:04:20 PM

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

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

**Analytical Report**

Lab Order **2208690**

Date Reported: **8/26/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** WS22-02 0-2'

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 10:50:00 AM

**Lab ID:** 2208690-012

**Matrix:** SOIL

**Received Date:** 8/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/13/2022 1:16:18 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/13/2022 1:16:18 AM
Surr: DNOP	90.3	21-129		%Rec	1	8/13/2022 1:16:18 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/12/2022 10:33:00 PM
Surr: BFB	91.5	37.7-212		%Rec	1	8/12/2022 10:33:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	8/12/2022 10:33:00 PM
Toluene	ND	0.050		mg/Kg	1	8/12/2022 10:33:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/12/2022 10:33:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	8/12/2022 10:33:00 PM
Surr: 4-Bromofluorobenzene	81.6	70-130		%Rec	1	8/12/2022 10:33:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	8/13/2022 8:16:44 PM

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

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

**Analytical Report**

Lab Order **2208690**

Date Reported: **8/26/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** WS22-03 0-2'

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 10:55:00 AM

**Lab ID:** 2208690-013

**Matrix:** SOIL

**Received Date:** 8/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/13/2022 1:40:59 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/13/2022 1:40:59 AM
Surr: DNOP	84.1	21-129		%Rec	1	8/13/2022 1:40:59 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/12/2022 10:52:00 PM
Surr: BFB	91.1	37.7-212		%Rec	1	8/12/2022 10:52:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.023		mg/Kg	1	8/12/2022 10:52:00 PM
Toluene	ND	0.047		mg/Kg	1	8/12/2022 10:52:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	8/12/2022 10:52:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	8/12/2022 10:52:00 PM
Surr: 4-Bromofluorobenzene	82.2	70-130		%Rec	1	8/12/2022 10:52:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	8/13/2022 8:29:09 PM

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

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

**Analytical Report**

Lab Order **2208690**

Date Reported: **8/26/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** WS22-04 0-2'

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 11:00:00 AM

**Lab ID:** 2208690-014

**Matrix:** SOIL

**Received Date:** 8/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/13/2022 2:05:37 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/13/2022 2:05:37 AM
Surr: DNOP	80.6	21-129		%Rec	1	8/13/2022 2:05:37 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/12/2022 11:12:00 PM
Surr: BFB	90.8	37.7-212		%Rec	1	8/12/2022 11:12:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	8/12/2022 11:12:00 PM
Toluene	ND	0.048		mg/Kg	1	8/12/2022 11:12:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	8/12/2022 11:12:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	8/12/2022 11:12:00 PM
Surr: 4-Bromofluorobenzene	80.4	70-130		%Rec	1	8/12/2022 11:12:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	8/13/2022 8:41:34 PM

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

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

**Analytical Report**

Lab Order **2208690**

Date Reported: **8/26/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** WS22-05 0-2'

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 11:05:00 AM

**Lab ID:** 2208690-015

**Matrix:** SOIL

**Received Date:** 8/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/13/2022 2:30:14 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/13/2022 2:30:14 AM
Surr: DNOP	83.6	21-129		%Rec	1	8/13/2022 2:30:14 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/12/2022 11:32:00 PM
Surr: BFB	87.0	37.7-212		%Rec	1	8/12/2022 11:32:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	8/12/2022 11:32:00 PM
Toluene	ND	0.048		mg/Kg	1	8/12/2022 11:32:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	8/12/2022 11:32:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	8/12/2022 11:32:00 PM
Surr: 4-Bromofluorobenzene	78.6	70-130		%Rec	1	8/12/2022 11:32:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	8/13/2022 9:18:47 PM

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

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

**Analytical Report**

Lab Order **2208690**

Date Reported: **8/26/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** WS22-06 0-2'

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 11:10:00 AM

**Lab ID:** 2208690-016

**Matrix:** SOIL

**Received Date:** 8/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/13/2022 2:54:54 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/13/2022 2:54:54 AM
Surr: DNOP	86.6	21-129		%Rec	1	8/13/2022 2:54:54 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/12/2022 11:51:00 PM
Surr: BFB	92.1	37.7-212		%Rec	1	8/12/2022 11:51:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	8/12/2022 11:51:00 PM
Toluene	ND	0.048		mg/Kg	1	8/12/2022 11:51:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	8/12/2022 11:51:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	8/12/2022 11:51:00 PM
Surr: 4-Bromofluorobenzene	82.4	70-130		%Rec	1	8/12/2022 11:51:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	8/13/2022 9:31:12 PM

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

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

**Analytical Report**

Lab Order **2208690**

Date Reported: **8/26/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** WS22-07 0-2'

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 11:15:00 AM

**Lab ID:** 2208690-017

**Matrix:** SOIL

**Received Date:** 8/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/13/2022 3:19:31 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/13/2022 3:19:31 AM
Surr: DNOP	84.8	21-129		%Rec	1	8/13/2022 3:19:31 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/13/2022 12:11:00 AM
Surr: BFB	87.5	37.7-212		%Rec	1	8/13/2022 12:11:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	8/13/2022 12:11:00 AM
Toluene	ND	0.049		mg/Kg	1	8/13/2022 12:11:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	8/13/2022 12:11:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	8/13/2022 12:11:00 AM
Surr: 4-Bromofluorobenzene	81.5	70-130		%Rec	1	8/13/2022 12:11:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	8/13/2022 9:43:36 PM

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

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

**Analytical Report**

Lab Order **2208690**

Date Reported: **8/26/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** WS22-08 0-2'

**Project:** Falcon Compressor Station

**Collection Date:** 8/5/2022 11:20:00 AM

**Lab ID:** 2208690-018

**Matrix:** SOIL

**Received Date:** 8/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/13/2022 3:44:02 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/13/2022 3:44:02 AM
Surr: DNOP	86.7	21-129		%Rec	1	8/13/2022 3:44:02 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/13/2022 12:31:00 AM
Surr: BFB	91.7	37.7-212		%Rec	1	8/13/2022 12:31:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.023		mg/Kg	1	8/13/2022 12:31:00 AM
Toluene	ND	0.047		mg/Kg	1	8/13/2022 12:31:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	8/13/2022 12:31:00 AM
Xylenes, Total	ND	0.093		mg/Kg	1	8/13/2022 12:31:00 AM
Surr: 4-Bromofluorobenzene	80.6	70-130		%Rec	1	8/13/2022 12:31:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	8/13/2022 9:56:01 PM

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

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



# ANALYTICAL REPORT

August 25, 2022

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Gl
- 6 Al
- 7 Sc

## Hall Environmental Analysis Laboratory

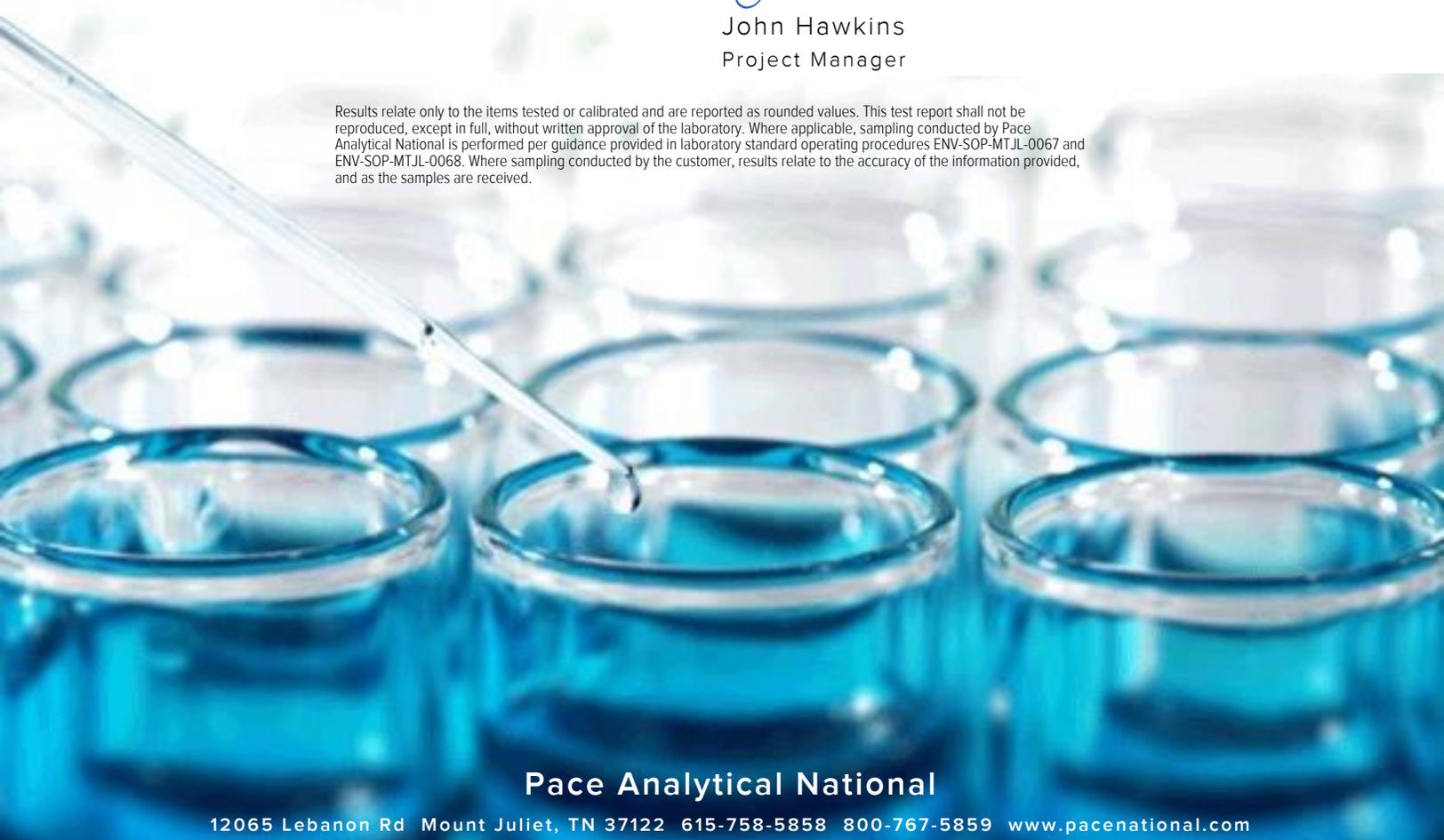
Sample Delivery Group: L1524698  
 Samples Received: 08/12/2022  
 Project Number:  
 Description:

Report To: Andy Freeman  
 4901 Hawkins NE  
 Albuquerque, NM 87109

Entire Report Reviewed By:

John Hawkins  
Project Manager

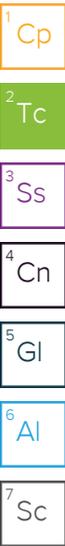
Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

<b>Cp: Cover Page</b>	<b>1</b>
<b>Tc: Table of Contents</b>	<b>2</b>
<b>Ss: Sample Summary</b>	<b>3</b>
<b>Cn: Case Narrative</b>	<b>6</b>
<b>Gl: Glossary of Terms</b>	<b>7</b>
<b>Al: Accreditations &amp; Locations</b>	<b>8</b>
<b>Sc: Sample Chain of Custody</b>	<b>9</b>



2208690-001B BS22-01 2' L1524698-01 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1910174	1	08/25/22 00:00	08/25/22 00:00	-	Baton Rouge, LA 70820

Collected by  
Collected date/time  
Received date/time  
08/05/22 09:30  
08/12/22 09:00

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Gl
- 6 Al
- 7 Sc

2208690-002B BS22-02 2' L1524698-02 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1910174	1	08/25/22 00:00	08/25/22 00:00	-	Baton Rouge, LA 70820

Collected by  
Collected date/time  
Received date/time  
08/05/22 09:35  
08/12/22 09:00

2208690-003B BS22-03 2' L1524698-03 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1910174	1	08/25/22 00:00	08/25/22 00:00	-	Baton Rouge, LA 70820

Collected by  
Collected date/time  
Received date/time  
08/05/22 09:40  
08/12/22 09:00

2208690-004B BS22-04 2' L1524698-04 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1910174	1	08/25/22 00:00	08/25/22 00:00	-	Baton Rouge, LA 70820

Collected by  
Collected date/time  
Received date/time  
08/05/22 09:45  
08/12/22 09:00

2208690-005B BS22-05 2' L1524698-05 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1910174	1	08/25/22 00:00	08/25/22 00:00	-	Baton Rouge, LA 70820

Collected by  
Collected date/time  
Received date/time  
08/05/22 09:50  
08/12/22 09:00

2208690-006B BS22-06 2' L1524698-06 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1910174	1	08/25/22 00:00	08/25/22 00:00	-	Baton Rouge, LA 70820

Collected by  
Collected date/time  
Received date/time  
08/05/22 09:55  
08/12/22 09:00

2208690-007B BS22-07 2' L1524698-07 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1910174	1	08/25/22 00:00	08/25/22 00:00	-	Baton Rouge, LA 70820

Collected by  
Collected date/time  
Received date/time  
08/05/22 10:00  
08/12/22 09:00

2208690-008B BS22-08 2' L1524698-08 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1910174	1	08/25/22 00:00	08/25/22 00:00	-	Baton Rouge, LA 70820

Collected by  
Collected date/time  
Received date/time  
08/05/22 10:05  
08/12/22 09:00

2208690-009B BS22-09 2' L1524698-09 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1910174	1	08/25/22 00:00	08/25/22 00:00	-	Baton Rouge, LA 70820

Collected by  
Collected date/time  
Received date/time  
08/05/22 10:10  
08/12/22 09:00

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Gl
- 6 Al
- 7 Sc

2208690-01B BS22-10 2' L1524698-10 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1910174	1	08/25/22 00:00	08/25/22 00:00	-	Baton Rouge, LA 70820

Collected by  
Collected date/time  
Received date/time  
08/05/22 10:15  
08/12/22 09:00

2208690-011B WS22-01 0-2' L1524698-11 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1910174	1	08/25/22 00:00	08/25/22 00:00	-	Baton Rouge, LA 70820

Collected by  
Collected date/time  
Received date/time  
08/05/22 10:45  
08/12/22 09:00

2208690-012B WS22-02 0-2' L1524698-12 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1910174	1	08/25/22 00:00	08/25/22 00:00	-	Baton Rouge, LA 70820

Collected by  
Collected date/time  
Received date/time  
08/05/22 10:50  
08/12/22 09:00

2208690-013B WS22-03 0-2' L1524698-13 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1910174	1	08/25/22 00:00	08/25/22 00:00	-	Baton Rouge, LA 70820

Collected by  
Collected date/time  
Received date/time  
08/05/22 10:55  
08/12/22 09:00

2208690-014B WS22-04 0-2' L1524698-14 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1910174	1	08/25/22 00:00	08/25/22 00:00	-	Baton Rouge, LA 70820

Collected by  
Collected date/time  
Received date/time  
08/05/22 11:00  
08/12/22 09:00

2208690-015B WS22-05 0-2' L1524698-15 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1910174	1	08/25/22 00:00	08/25/22 00:00	-	Baton Rouge, LA 70820

Collected by  
Collected date/time  
Received date/time  
08/05/22 11:05  
08/12/22 09:00

2208690-016B WS22-06 0-2' L1524698-16 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1910174	1	08/25/22 00:00	08/25/22 00:00	-	Baton Rouge, LA 70820

Collected by  
Collected date/time  
Received date/time  
08/05/22 11:10  
08/12/22 09:00

2208690-017B WS22-07 0-2' L1524698-17 Solid

Collected by  
Collected date/time  
Received date/time  
08/05/22 11:15  
08/12/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1910174	1	08/25/22 00:00	08/25/22 00:00	-	Baton Rouge, LA 70820

- <sup>1</sup>Cp
- <sup>2</sup>Tc
- <sup>3</sup>Ss
- <sup>4</sup>Cn
- <sup>5</sup>Gl
- <sup>6</sup>Al
- <sup>7</sup>Sc

2208690-018B WS22-08 0-2' L1524698-18 Solid

Collected by  
Collected date/time  
Received date/time  
08/05/22 11:20  
08/12/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1910174	1	08/25/22 00:00	08/25/22 00:00	-	Baton Rouge, LA 70820

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

John Hawkins  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Gl
- <sup>6</sup> Al
- <sup>7</sup> Sc

Project Narrative

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L1524698 -01, -02, -03, -04, -05, -06, -07, -08, -09, -10, -11, -12, -13, -14, -15, -16, -17, -18 contains subout data that is included after the chain of custody.

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

SDG	Sample Delivery Group.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Gl

6  
Al

7  
Sc

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

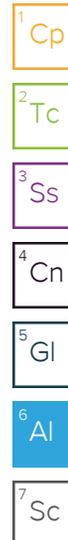
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

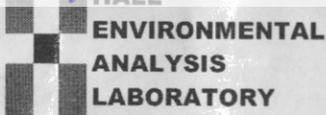
<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



**CHAIN OF CUSTODY RECORD**



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

SUB CONTRACTOR: <b>Pace TN</b>	COMPANY: <b>PACE TN</b>	PHONE: <b>(800) 767-5859</b>	FAX: <b>(615) 758-5859</b>
ADDRESS: <b>12065 Lebanon Rd</b>		ACCOUNT #:	EMAIL:
CITY, STATE, ZIP: <b>Mt. Juliet, TN 37122</b>			

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2208690-001B	BS22-01 2'	4OZGU	Soil	8/5/2022 9:30:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* -01
2	2208690-002B	BS22-02 2'	4OZGU	Soil	8/5/2022 9:35:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* -02
3	2208690-003B	BS22-03 2'	4OZGU	Soil	8/5/2022 9:40:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* -03
4	2208690-004B	BS22-04 2'	4OZGU	Soil	8/5/2022 9:45:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* -04
5	2208690-005B	BS22-05 2'	4OZGU	Soil	8/5/2022 9:50:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* -05
6	2208690-006B	BS22-06 2'	4OZGU	Soil	8/5/2022 9:55:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* -06
7	2208690-007B	BS22-07 2'	4OZGU	Soil	8/5/2022 10:00:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* -07
8	2208690-008B	BS22-08 2'	4OZGU	Soil	8/5/2022 10:05:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* -08
9	2208690-009B	BS22-09 2'	4OZGU	Soil	8/5/2022 10:10:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* -09
10	2208690-010B	BS22-10 2'	4OZGU	Soil	8/5/2022 10:15:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* -10
11	2208690-011B	WS22-01 0-2'	4OZGU	Soil	8/5/2022 10:45:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* -11
12	2208690-012B	WS22-02 0-2'	4OZGU	Soil	8/5/2022 10:50:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* -12
13	2208690-013B	WS22-03 0-2'	4OZGU	Soil	8/5/2022 10:55:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* -13

1023 21524698

**SPECIAL INSTRUCTIONS / COMMENTS:**  
 Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

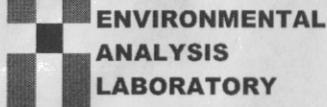
Relinquished By: <i>[Signature]</i>	Date: 8/11/2022	Time: 3:09 PM	Received By:	Date:	Time:	REPORT TRANSMITTAL DESIRED: <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE  FOR LAB USE ONLY  Temp of samples _____ C    Attempt to Cool? _____  Comments: _____
Relinquished By: <i>[Signature]</i>	Date:	Time: 9:00	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	

TAT: Standard  **RUSH**  Next BD  2nd BD  3rd BD

CHAIN OF CUSTODY RECORD

PAGE: 2 OF: 2

Hall Environmental Analysis Laboratory Page 235 of 301  
 4901 Hawkins NE  
 Albuquerque, NM 87109  
 TEL: 505-345-3975  
 FAX: 505-345-4107  
 Website: www.hallenvironmental.com



SUB CONTRACTOR: **Pace TN** COMPANY: **PACE TN** PHONE: **(800) 767-5859** FAX: **(615) 758-5859**  
 ADDRESS: **12065 Lebanon Rd** ACCOUNT #: EMAIL:  
 CITY, STATE, ZIP: **Mt. Juliet, TN 37122**

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
14	2208690-014B	WS22-04 0-2'	4OZGU	Soil	8/5/2022 11:00:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* <span style="float: right;">114</span>
15	2208690-015B	WS22-05 0-2'	4OZGU	Soil	8/5/2022 11:05:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* <span style="float: right;">-15</span>
16	2208690-016B	WS22-06 0-2'	4OZGU	Soil	8/5/2022 11:10:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* <span style="float: right;">-16</span>
17	2208690-017B	WS22-07 0-2'	4OZGU	Soil	8/5/2022 11:15:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* <span style="float: right;">-17</span>
18	2208690-018B	WS22-08 0-2'	4OZGU	Soil	8/5/2022 11:20:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* <span style="float: right;">-18</span>

LIS 24698

Temp -2.9 ± 0 = -2.9

Sample Receipt Checklist

COC Seal Present/Intact:  Y  N  
 COC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 RAD Screen <0.5 mR/hr:  Y  N

If Applicable  
 VOA Zero Headspace:  Y  N  
 Pres. Correct/Check:  Y  N

SPECIAL INSTRUCTIONS / COMMENTS:  
 Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By:	Date: 8/11/2022	Time: 3:09 PM	Received By:	Date: 8/12/2022	Time: 09:00	REPORT TRANSMITTAL DESIRED: <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE  FOR LAB USE ONLY  Temp of samples _____ °C Attempt to Cool? _____  Comments: _____
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	

TAT: Standard  **RUSH**  Next BD  2nd BD  3rd BD



LELAP Certificate Number: 01955  
A2LA Accredited (DoD ELAP-QSM 5.4) Certificate Number: 6429.01

# ANALYTICAL RESULTS

## PERFORMED BY

**Pace Analytical Gulf Coast**  
7979 Innovation Park Dr.  
Baton Rouge, LA 70820  
(225) 769-4900

**Report Date** 08/25/2022

**Report #** 222081611



**Project** WG1910174 L1524698

**Samples Collected** 8/5/22

<b>Deliver To</b>	<b>Additional Recipients</b>
John Hawkins Pace Analytical Services, Inc. 12065 Lebanon Road Mount Juliet, TN 37122	SuboutTeam, Pace Analytical Services Jimmy Huckaba, Pace Analytical Services, Inc. Angela Ford, Pace Analytical Services, Inc.





**Report#:** 222081611  
**Project ID:** WG1910174 L1524698

**Report Date:** 08/25/2022

## Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with Pace Gulf Coast's Standard Operating Procedures.

### Common Abbreviations that may be Utilized in this Report

<b>ND</b>	Indicates the result was Not Detected at the specified reporting limit
<b>NO</b>	Indicates the sample did not ignite when preliminary test performed for EPA Method 1030
<b>DO</b>	Indicates the result was Diluted Out
<b>MI</b>	Indicates the result was subject to Matrix Interference
<b>TNTC</b>	Indicates the result was Too Numerous To Count
<b>SUBC</b>	Indicates the analysis was Sub-Contracted
<b>FLD</b>	Indicates the analysis was performed in the Field
<b>DL</b>	Detection Limit
<b>LOD</b>	Limit of Detection
<b>LOQ</b>	Limit of Quantitation
<b>RE</b>	Re-analysis
<b>CF</b>	HPLC or GC Confirmation
<b>00:01</b>	Reported as a time equivalent to 12:00 AM

### Reporting Flags that may be Utilized in this Report

<b>J or I</b>	Indicates the result is between the MDL and LOQ
<b>J</b>	DOD flag on analyte in the parent sample for MS/MSD outside acceptance criteria
<b>U</b>	Indicates the compound was analyzed for but not detected
<b>B or V</b>	Indicates the analyte was detected in the associated Method Blank
<b>Q</b>	Indicates a non-compliant QC Result (See Q Flag Application Report)
<b>*</b>	Indicates a non-compliant or not applicable QC recovery or RPD – see narrative
<b>E</b>	Organics - The result is estimated because it exceeded the instrument calibration range
<b>E</b>	Metals - % difference for the serial dilution is > 10%
<b>L</b>	Reporting Limits adjusted to meet risk-based limit.
<b>P</b>	RPD between primary and confirmation result is greater than 40
<b>DL</b>	Diluted analysis – when appended to Client Sample ID

Sample receipt at Pace Gulf Coast is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of Pace Gulf Coast. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with The NELAC Institute (TNI) Standard 2009 and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Authorized Signature  
 Pace Gulf Coast Report 222081611



**Report#:** 222081611  
**Project ID:** WG1910174 L1524698

**Report Date:** 08/25/2022

## Certifications

Certification	Certification Number
A2LA Accredited (DoD ELAP-QSM 5.4)	6429.01
Alabama	01955
Arkansas	88-0655
Colorado	01955
Delaware	01955
Florida	E87854
Georgia	01955
Hawaii	01955
Idaho	01955
Illinois	200048
Indiana	01955
Kansas	E-10354
Kentucky	95
Louisiana	01955
Maryland	01955
Massachusetts	01955
Michigan	01955
Mississippi	01955
Missouri	01955
Montana	N/A
Nebraska	01955
New Mexico	01955
North Carolina	618
North Dakota	R-195
Oklahoma	9403
South Carolina	73006001
South Dakota	01955
Tennessee	01955
Texas	T104704178
Vermont	01955
Virginia	460215
Washington	C929
USDA Soil Permit	P330-16-00234



**Report#:** 222081611  
**Project ID:** WG1910174 L1524698

**Report Date:** 08/25/2022

## Case Narrative

**Client:** Pace Analytical Services      **Report:** 222081611

Pace Analytical Gulf Coast received and analyzed the sample(s) listed on the Report Sample Summary page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

### COC ANOMALIES

COC Anomalies\Changes - The dry weight could not be performed for sample #3, there was insufficient volume present (Ruth Welsh(Do Not 08/25/2022 12:38)

### MISCELLANEOUS

Sample 22208161103 (2208690-003B BS22-03 2') was received with a minimal volume of sample.



**Report#:** 222081611  
**Project ID:** WG1910174 L1524698

**Report Date:** 08/25/2022

## Sample Summary

Lab ID	Client ID	Matrix	Collect Date	Receive Date
22208161101	2208690-001B BS22-01 2'	Solid	8/05/22 09:30	8/16/22 10:10
22208161102	2208690-002B BS22-02 2'	Solid	8/05/22 09:35	8/16/22 10:10
22208161103	2208690-003B BS22-03 2'	Solid	8/05/22 09:40	8/16/22 10:10
22208161104	2208690-004B BS22-04 2'	Solid	8/05/22 09:45	8/16/22 10:10
22208161105	2208690-005B BS22-05 2'	Solid	8/05/22 09:50	8/16/22 10:10
22208161106	2208690-006B BS22-06 2'	Solid	8/05/22 09:55	8/16/22 10:10
22208161107	2208690-007B BS22-07 2'	Solid	8/05/22 10:00	8/16/22 10:10
22208161108	2208690-008B BS22-08 2'	Solid	8/05/22 10:05	8/16/22 10:10
22208161109	2208690-009B BS22-09 2'	Solid	8/05/22 10:10	8/16/22 10:10
22208161110	2208690-01B BS22-10 2'	Solid	8/05/22 10:15	8/16/22 10:10
22208161111	2208690-011B WS22-01 0-2'	Solid	8/05/22 10:45	8/16/22 10:10
22208161112	2208690-012B WS22-02 0-2'	Solid	8/05/22 10:50	8/16/22 10:10
22208161113	2208690-013B WS22-03 0-2'	Solid	8/05/22 10:55	8/16/22 10:10
22208161114	2208690-014B WS22-04 0-2'	Solid	8/05/22 11:00	8/16/22 10:10
22208161115	2208690-015B WS22-05 0-2'	Solid	8/05/22 11:05	8/16/22 10:10
22208161116	2208690-016B WS22-06 0-2'	Solid	8/05/22 11:10	8/16/22 10:10
22208161117	2208690-017B WS22-07 0-2'	Solid	8/05/22 11:15	8/16/22 10:10
22208161118	2208690-018B WS22-08 0-2'	Solid	8/05/22 11:20	8/16/22 10:10



**Report#:** 222081611  
**Project ID:** WG1910174 L1524698

**Report Date:** 08/25/2022

## Detect Summary

Results and Detection Limits are adjusted for dilution and moisture when applicable

EPA 8015C							
Lab ID	Client ID	Parameter	Units	Result	Dil.	%Moist	
22208161101	2208690-001B BS22-01 2'	Triethylene Glycol	ug/Kg	559000	20	6.63	
22208161102	2208690-002B BS22-02 2'	Triethylene Glycol	ug/Kg	29800000	200	2.81	
22208161103	2208690-003B BS22-03 2'	Triethylene Glycol	ug/Kg	12400	1	NA	
22208161104	2208690-004B BS22-04 2'	Triethylene Glycol	ug/Kg	31700000	200	2.7	
22208161105	2208690-005B BS22-05 2'	Triethylene Glycol	ug/Kg	7780000	100	8.05	
22208161106	2208690-006B BS22-06 2'	Triethylene Glycol	ug/Kg	16600000	100	5.56	
22208161107	2208690-007B BS22-07 2'	Triethylene Glycol	ug/Kg	17000000	100	3.48	
22208161108	2208690-008B BS22-08 2'	Triethylene Glycol	ug/Kg	16100000	100	3.96	
22208161109	2208690-009B BS22-09 2'	Triethylene Glycol	ug/Kg	224000	1	6.51	
22208161110	2208690-01B BS22-10 2'	Triethylene Glycol	ug/Kg	1630000	10	5.55	
22208161111	2208690-011B WS22-01 0-2'	Triethylene Glycol	ug/Kg	7340	1	.49	
22208161112	2208690-012B WS22-02 0-2'	Triethylene Glycol	ug/Kg	23200	1	.3	
22208161114	2208690-014B WS22-04 0-2'	Triethylene Glycol	ug/Kg	5330	1	.3	
22208161116	2208690-016B WS22-06 0-2'	Triethylene Glycol	ug/Kg	34500	1	1.07	
22208161117	2208690-017B WS22-07 0-2'	Triethylene Glycol	ug/Kg	89400	1	.78	
22208161118	2208690-018B WS22-08 0-2'	Triethylene Glycol	ug/Kg	5880	1	.45	



Report#: 222081611  
Project ID: WG1910174 L1524698

Report Date: 08/25/2022

## Sample Results

<b>2208690-001B BS22-01 2'</b>	Collect Date	08/05/2022 09:30	Lab ID	22208161101
	Receive Date	08/16/2022 10:10	Matrix	Solid

EPA 8015C

\*Results and limits are adjusted for dilution and moisture content.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	20	08/18/22 18:53	747812	EKR	6.63

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	559000	107000	ug/Kg

<b>2208690-002B BS22-02 2'</b>	Collect Date	08/05/2022 09:35	Lab ID	22208161102
	Receive Date	08/16/2022 10:10	Matrix	Solid

EPA 8015C

\*Results and limits are adjusted for dilution and moisture content.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	200	08/18/22 19:02	747812	EKR	2.81

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	29800000	1030000	ug/Kg

<b>2208690-003B BS22-03 2'</b>	Collect Date	08/05/2022 09:40	Lab ID	22208161103
	Receive Date	08/16/2022 10:10	Matrix	Solid

EPA 8015C

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	08/18/22 19:12	747812	EKR	NA

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	12400	5000	ug/Kg

<b>2208690-004B BS22-04 2'</b>	Collect Date	08/05/2022 09:45	Lab ID	22208161104
	Receive Date	08/16/2022 10:10	Matrix	Solid

EPA 8015C

\*Results and limits are adjusted for dilution and moisture content.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	200	08/18/22 19:21	747812	EKR	2.7

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	31700000	1030000	ug/Kg



**Report#:** 222081611  
**Project ID:** WG1910174 L1524698

**Report Date:** 08/25/2022

## Sample Results

<b>2208690-005B BS22-05 2'</b>	<b>Collect Date</b>	08/05/2022 09:50	<b>Lab ID</b>	22208161105
	<b>Receive Date</b>	08/16/2022 10:10	<b>Matrix</b>	Solid

EPA 8015C \*Results and limits are adjusted for dilution and moisture content.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	100	08/18/22 19:30	747812	EKR	8.05

<b>CAS#</b>	<b>Parameter</b>	<b>Result</b>	<b>LOQ</b>	<b>Units</b>
112-27-6	<b>Triethylene Glycol</b>	<b>7780000</b>	<b>544000</b>	ug/Kg

<b>2208690-006B BS22-06 2'</b>	<b>Collect Date</b>	08/05/2022 09:55	<b>Lab ID</b>	22208161106
	<b>Receive Date</b>	08/16/2022 10:10	<b>Matrix</b>	Solid

EPA 8015C \*Results and limits are adjusted for dilution and moisture content.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	100	08/18/22 19:40	747812	EKR	5.56

<b>CAS#</b>	<b>Parameter</b>	<b>Result</b>	<b>LOQ</b>	<b>Units</b>
112-27-6	<b>Triethylene Glycol</b>	<b>16600000</b>	<b>529000</b>	ug/Kg

<b>2208690-007B BS22-07 2'</b>	<b>Collect Date</b>	08/05/2022 10:00	<b>Lab ID</b>	22208161107
	<b>Receive Date</b>	08/16/2022 10:10	<b>Matrix</b>	Solid

EPA 8015C \*Results and limits are adjusted for dilution and moisture content.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	100	08/18/22 19:49	747812	EKR	3.48

<b>CAS#</b>	<b>Parameter</b>	<b>Result</b>	<b>LOQ</b>	<b>Units</b>
112-27-6	<b>Triethylene Glycol</b>	<b>17000000</b>	<b>518000</b>	ug/Kg

<b>2208690-008B BS22-08 2'</b>	<b>Collect Date</b>	08/05/2022 10:05	<b>Lab ID</b>	22208161108
	<b>Receive Date</b>	08/16/2022 10:10	<b>Matrix</b>	Solid

EPA 8015C \*Results and limits are adjusted for dilution and moisture content.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	100	08/18/22 19:58	747812	EKR	3.96

<b>CAS#</b>	<b>Parameter</b>	<b>Result</b>	<b>LOQ</b>	<b>Units</b>
112-27-6	<b>Triethylene Glycol</b>	<b>16100000</b>	<b>521000</b>	ug/Kg



Report#: 222081611  
Project ID: WG1910174 L1524698

Report Date: 08/25/2022

## Sample Results

<b>2208690-009B BS22-09 2'</b>	Collect Date	08/05/2022 10:10	Lab ID	22208161109
	Receive Date	08/16/2022 10:10	Matrix	Solid

EPA 8015C

\*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	08/18/22 20:08	747812	EKR	6.51

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	224000	5350	ug/Kg

<b>2208690-01B BS22-10 2'</b>	Collect Date	08/05/2022 10:15	Lab ID	22208161110
	Receive Date	08/16/2022 10:10	Matrix	Solid

EPA 8015C

\*Results and limits are adjusted for dilution and moisture content.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	10	08/18/22 20:17	747812	EKR	5.55

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	1630000	52900	ug/Kg

<b>2208690-011B WS22-01 0-2'</b>	Collect Date	08/05/2022 10:45	Lab ID	22208161111
	Receive Date	08/16/2022 10:10	Matrix	Solid

EPA 8015C

\*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	08/18/22 15:43	747812	EKR	.49

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	7340	5020	ug/Kg

<b>2208690-012B WS22-02 0-2'</b>	Collect Date	08/05/2022 10:50	Lab ID	22208161112
	Receive Date	08/16/2022 10:10	Matrix	Solid

EPA 8015C

\*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	08/18/22 15:53	747812	EKR	.3

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	23200	5020	ug/Kg



Report#: 222081611  
Project ID: WG1910174 L1524698

Report Date: 08/25/2022

## Sample Results

<b>2208690-013B WS22-03 0-2'</b>	Collect Date	08/05/2022 10:55	Lab ID	22208161113
	Receive Date	08/16/2022 10:10	Matrix	Solid

### EPA 8015C

\*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	08/18/22 16:02	747812	EKR	4.61

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	ND	5240	ug/Kg

<b>2208690-014B WS22-04 0-2'</b>	Collect Date	08/05/2022 11:00	Lab ID	22208161114
	Receive Date	08/16/2022 10:10	Matrix	Solid

### EPA 8015C

\*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	08/18/22 16:11	747812	EKR	.3

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	5330	5010	ug/Kg

<b>2208690-015B WS22-05 0-2'</b>	Collect Date	08/05/2022 11:05	Lab ID	22208161115
	Receive Date	08/16/2022 10:10	Matrix	Solid

### EPA 8015C

\*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	08/18/22 16:20	747812	EKR	1.62

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	ND	5080	ug/Kg

<b>2208690-016B WS22-06 0-2'</b>	Collect Date	08/05/2022 11:10	Lab ID	22208161116
	Receive Date	08/16/2022 10:10	Matrix	Solid

### EPA 8015C

\*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	08/18/22 16:30	747812	EKR	1.07

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	34500	5050	ug/Kg



**Report#:** 222081611  
**Project ID:** WG1910174 L1524698

**Report Date:** 08/25/2022

## Sample Results

<b>2208690-017B WS22-07 0-2'</b>	<b>Collect Date</b> 08/05/2022 11:15	<b>Lab ID</b> 22208161117
	<b>Receive Date</b> 08/16/2022 10:10	<b>Matrix</b> Solid

EPA 8015C \*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	08/18/22 16:39	747812	EKR	.78

<b>CAS#</b> 112-27-6	<b>Parameter</b> <b>Triethylene Glycol</b>	<b>Result</b> <b>89400</b>	<b>LOQ</b> <b>5040</b>	<b>Units</b> ug/Kg
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<b>2208690-018B WS22-08 0-2'</b>	<b>Collect Date</b> 08/05/2022 11:20	<b>Lab ID</b> 22208161118
	<b>Receive Date</b> 08/16/2022 10:10	<b>Matrix</b> Solid

EPA 8015C \*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	08/18/22 16:48	747812	EKR	.45

<b>CAS#</b> 112-27-6	<b>Parameter</b> <b>Triethylene Glycol</b>	<b>Result</b> <b>5880</b>	<b>LOQ</b> <b>5020</b>	<b>Units</b> ug/Kg
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**Report#:** 222081611  
**Project ID:** WG1910174 L1524698

**Report Date:** 08/25/2022

## GC Semi-Volatiles QC Summary

Analytical Batch		Client ID	MB747812	LCS747812				LCSD747812				
747812		Lab ID	2385088	2385089				2385678				
		Sample Type	MB	LCS				LCSD				
		Prep Date	NA	NA				NA				
		Analysis Date	08/18/22 13:52	08/18/22 11:25				08/18/22 18:21				
		Matrix	Solid	Solid				Solid				
<b>EPA 8015C</b>		Units	ug/Kg	Spike	Result	%R	Control	Spike	Result	%R	RPD	RPD
		Result	LOQ	Added			Limits%R	Added				Limit
Triethylene Glycol	112-27-6	ND	5000	62500	58600	94	40 - 140	62500	43200	69	30	40







# SAMPLE RECEIVING CHECKLIST



SAMPLE DELIVERY GROUP 222081611		CHECKLIST		YES	NO
<b>Client</b> 4367 - Pace Analytical Services	<b>PM R/W</b> 4367 - Pace Analytical Services	<b>Transport Method</b> FEDEX	Samples received with proper thermal preservation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Profile Number</b> 297536	<b>Received By</b> Roberts, George S.		Radioactivity is <1600 cpm? If no, record cpm value in notes section.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Line Item(s)</b> 1 - Glycol - Soil	<b>Receive Date(s)</b> 08/16/22		COC relinquished and complete (including sampleIDs, collect times, and sampler)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			All containers received in good condition and within hold time?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			All sample labels and containers received match the chain of custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Preservative added to any containers?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			If received, was headspace for VOC water containers < 6mm?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Samples collected in containers provided by Pace Gulf Coast?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>COOLERS</b>		<b>DISCREPANCIES</b>		<b>LAB PRESERVATIONS</b>	
<b>Airbill</b> 588275515090	<b>Thermometer ID:</b> E42	<b>Temp °C</b> 2.6	<u>22208161103 - 2208690-003B BS22-03 2:</u> Low sample volume	None	
<b>NOTES</b>	SAMPLE 3 BROKEN DURING RECEIMNG; ABLE TO SALVAGE VERY SMALL AMOUNT OF SAMPLE				

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2208690

26-Aug-22

**Client:** Devon Energy  
**Project:** Falcon Compressor Station

Sample ID: <b>MB-69482</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>69482</b>	RunNo: <b>90266</b>								
Prep Date: <b>8/13/2022</b>	Analysis Date: <b>8/13/2022</b>	SeqNo: <b>3219654</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-69482</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>69482</b>	RunNo: <b>90266</b>								
Prep Date: <b>8/13/2022</b>	Analysis Date: <b>8/13/2022</b>	SeqNo: <b>3219655</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.1	90	110			

Sample ID: <b>MB-69481</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>69481</b>	RunNo: <b>90271</b>								
Prep Date: <b>8/13/2022</b>	Analysis Date: <b>8/13/2022</b>	SeqNo: <b>3219740</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-69481</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>69481</b>	RunNo: <b>90271</b>								
Prep Date: <b>8/13/2022</b>	Analysis Date: <b>8/13/2022</b>	SeqNo: <b>3219741</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.6	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2208690

26-Aug-22

**Client:** Devon Energy  
**Project:** Falcon Compressor Station

Sample ID: <b>LCS-69425</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>69425</b>	RunNo: <b>90218</b>								
Prep Date: <b>8/11/2022</b>	Analysis Date: <b>8/12/2022</b>	SeqNo: <b>3218134</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	15	50.00	0	88.4	64.4	127			
Surr: DNOP	4.4		5.000		87.7	21	129			

Sample ID: <b>MB-69425</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>69425</b>	RunNo: <b>90218</b>								
Prep Date: <b>8/11/2022</b>	Analysis Date: <b>8/12/2022</b>	SeqNo: <b>3218135</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		92.8	21	129			

Sample ID: <b>2208690-003AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>BS22-03 2'</b>	Batch ID: <b>69425</b>	RunNo: <b>90218</b>								
Prep Date: <b>8/11/2022</b>	Analysis Date: <b>8/12/2022</b>	SeqNo: <b>3218457</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	15	48.36	0	87.3	36.1	154			
Surr: DNOP	3.9		4.836		80.2	21	129			

Sample ID: <b>2208690-003AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>BS22-03 2'</b>	Batch ID: <b>69425</b>	RunNo: <b>90218</b>								
Prep Date: <b>8/11/2022</b>	Analysis Date: <b>8/12/2022</b>	SeqNo: <b>3218458</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	14	47.98	0	89.6	36.1	154	1.73	33.9	
Surr: DNOP	4.1		4.798		85.8	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2208690

26-Aug-22

**Client:** Devon Energy  
**Project:** Falcon Compressor Station

Sample ID: <b>ics-69421</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>69421</b>		RunNo: <b>90227</b>							
Prep Date: <b>8/11/2022</b>	Analysis Date: <b>8/12/2022</b>		SeqNo: <b>3218828</b>		Units: <b>mg/Kg</b>					
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	1900		1000		193	37.7	212			

Sample ID: <b>mb-69421</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>69421</b>		RunNo: <b>90227</b>							
Prep Date: <b>8/11/2022</b>	Analysis Date: <b>8/12/2022</b>		SeqNo: <b>3218829</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	850		1000		85.2	37.7	212			

Sample ID: <b>2208690-001ams</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>BS22-01 2'</b>	Batch ID: <b>69421</b>		RunNo: <b>90227</b>							
Prep Date: <b>8/11/2022</b>	Analysis Date: <b>8/12/2022</b>		SeqNo: <b>3218831</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.7	23.61	0	110	70	130			
Surr: BFB	1900		944.3		202	37.7	212			

Sample ID: <b>2208690-001amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>BS22-01 2'</b>	Batch ID: <b>69421</b>		RunNo: <b>90227</b>							
Prep Date: <b>8/11/2022</b>	Analysis Date: <b>8/12/2022</b>		SeqNo: <b>3218832</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.7	23.63	0	113	70	130	2.35	20	
Surr: BFB	1900		945.2		202	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2208690

26-Aug-22

**Client:** Devon Energy  
**Project:** Falcon Compressor Station

Sample ID: <b>mb-69421</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>69421</b>	RunNo: <b>90227</b>								
Prep Date: <b>8/11/2022</b>	Analysis Date: <b>8/12/2022</b>	SeqNo: <b>3218882</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.78		1.000		77.8	70	130			

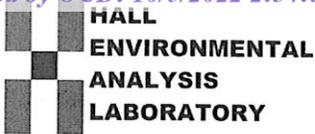
Sample ID: <b>2208690-002ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>BS22-02 2'</b>	Batch ID: <b>69421</b>	RunNo: <b>90227</b>								
Prep Date: <b>8/11/2022</b>	Analysis Date: <b>8/12/2022</b>	SeqNo: <b>3218885</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	0.9950	0	81.2	68.8	120			
Toluene	0.85	0.050	0.9950	0	85.5	73.6	124			
Ethylbenzene	0.87	0.050	0.9950	0	87.1	72.7	129			
Xylenes, Total	2.6	0.10	2.985	0	86.4	75.7	126			
Surr: 4-Bromofluorobenzene	0.77		0.9950		77.7	70	130			

Sample ID: <b>2208690-002amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>BS22-02 2'</b>	Batch ID: <b>69421</b>	RunNo: <b>90227</b>								
Prep Date: <b>8/11/2022</b>	Analysis Date: <b>8/12/2022</b>	SeqNo: <b>3218886</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	0.9960	0	81.4	68.8	120	0.412	20	
Toluene	0.86	0.050	0.9960	0	86.3	73.6	124	0.977	20	
Ethylbenzene	0.88	0.050	0.9960	0	88.0	72.7	129	1.06	20	
Xylenes, Total	2.6	0.10	2.988	0	87.5	75.7	126	1.42	20	
Surr: 4-Bromofluorobenzene	0.76		0.9960		76.6	70	130	0	0	

Sample ID: <b>lcs-69421</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>69421</b>	RunNo: <b>90279</b>								
Prep Date: <b>8/11/2022</b>	Analysis Date: <b>8/15/2022</b>	SeqNo: <b>3220402</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.0	80	120			
Toluene	0.92	0.050	1.000	0	91.8	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.9	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.9	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

**Qualifiers:**

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



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: 2208690 RcptNo: 1

Received By: Juan Rojas 8/11/2022 7:10:00 AM

Completed By: Sean Livingston 8/11/2022 7:57:52 AM

Reviewed By: JR 8/11/22

Handwritten signature

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Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [ ] Not Present [ ]
2. How was the sample delivered? Courier

Log In

- 3. Was an attempt made to cool the samples? Yes [checked] No [ ] NA [ ]
4. Were all samples received at a temperature of >0° C to 6.0° C? Yes [checked] No [ ] NA [ ]
5. Sample(s) in proper container(s)? Yes [checked] No [ ]
6. Sufficient sample volume for indicated test(s)? Yes [checked] No [ ]
7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No [ ]
8. Was preservative added to bottles? Yes [ ] No [checked] NA [ ]
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [ ] No [ ] NA [checked]
10. Were any sample containers received broken? Yes [ ] No [checked]
11. Does paperwork match bottle labels? Yes [checked] No [ ]
12. Are matrices correctly identified on Chain of Custody? Yes [checked] No [ ]
13. Is it clear what analyses were requested? Yes [checked] No [ ]
14. Were all holding times able to be met? Yes [checked] No [ ]

# of preserved bottles checked for pH:
Adjusted?
Checked by: SJL 8/11/22

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [checked]

Person Notified:
By Whom:
Regarding:
Client Instructions:
Date:
Via: [ ] eMail [ ] Phone [ ] Fax [ ] In Person

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 4.1, Good, [ ], [ ], [ ], [ ]

# Chain-of-Custody Record

Client: Devon Verkey

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 2-Day

Project Name:

Falcon Compressor Station

Project #:

22E-00924

Project Manager:

K. Stalings

Sampler: M. W. S.

On Ice:  Yes  No

# of Coolers: 1

Cooler Temp (including CF): 4.1-6=4.1 (°C)

Container Type and #	Preservative Type	HEAL No.
<u>40Z</u>	<u>ice</u>	<u>2208690</u>

Date	Time	Matrix	Sample Name	Depth
<u>8-5-22</u>	<u>9:30</u>	<u>Soil</u>	<u>BS22-01</u>	<u>2'</u>
	<u>9:35</u>		<u>BS22-02</u>	<u>2'</u>
	<u>9:40</u>		<u>BS22-03</u>	<u>2'</u>
	<u>9:45</u>		<u>BS22-04</u>	<u>2'</u>
	<u>9:50</u>		<u>BS22-05</u>	<u>2'</u>
	<u>9:55</u>		<u>BS22-06</u>	<u>2'</u>
	<u>10:00</u>		<u>BS22-07</u>	<u>2'</u>
	<u>10:05</u>		<u>BS22-08</u>	<u>2'</u>
	<u>10:10</u>		<u>BS22-09</u>	<u>2'</u>
	<u>10:15</u>		<u>BS22-10</u>	<u>2'</u>
	<u>10:35</u>		<u>MS22-01</u>	<u>0-2'</u>

Relinquished by:

M. Keenan

Via:

Hand

Date Time

8/10/22 8:00

Received by:

M. W. S.

Via:

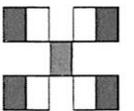
Hand

Date Time

8/10/22 7:10

Remarks:

<input checked="" type="checkbox"/>	BTEX / MTBE / TMB's (8021)
<input checked="" type="checkbox"/>	TPH:8015D(GRO / DRO / MRO)
<input type="checkbox"/>	8081 Pesticides/8082 PCB's
<input type="checkbox"/>	EDB (Method 504.1)
<input type="checkbox"/>	PAHs by 8310 or 8270SIMS
<input type="checkbox"/>	RCRA 8 Metals
<input checked="" type="checkbox"/>	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>
<input type="checkbox"/>	8260 (VOA)
<input type="checkbox"/>	8270 (Semi-VOA)
<input type="checkbox"/>	Total Coliform (Present/Absent)
<input checked="" type="checkbox"/>	TEG (Triethylene Glycol)



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

# Chain-of-Custody Record

Client: Deven / Vertiv

Mailing Address: on file

Phone #: /

email or Fax#: /

QA/QC Package:  Level 4 (Full Validation)

Standard

Accreditation:  Az Compliance

NELAC  Other

EDD (Type)

Turn-Around Time:

Standard  Rush 2 Day

Project Name:

Falcon Compressor Station

Project #: 22E-00934

Project Manager:

K. Stallings

Sampler: M. Wirtz

On Ice:  Yes  No

# of Coolers: 1

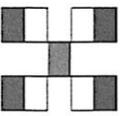
Cooler Temp (including Cr): 4.1-0=4.1 (°C)

Container Type and #	Preservative Type	HEAL No.
4oz	ice	012

Date	Time	Matrix	Sample Name
85-22-10	10:50	50-1	WS22-02 0-2'
	10:55		WS22-03 0-2'
	11:00		WS22-04 0-2'
	11:05		WS22-05 0-2'
	11:10		WS22-06 0-2'
	11:15		WS22-07 0-2'
	11:20		WS22-08 0-2'

Date	Time	Received by:	Via:
8/10/22	1900	<u>Summers</u>	<u>via carrier</u>

Remarks:	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	TFG (Triethylene Glycol)
	X	X					X				



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request



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

September 19, 2022

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

RE: Falcon Compressor Station

OrderNo.: 2209222

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 20 sample(s) on 9/7/2022 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order **2209222**

Date Reported: **9/19/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BS22-01 4'

**Project:** Falcon Compressor Station

**Collection Date:** 9/2/2022 9:00:00 AM

**Lab ID:** 2209222-001

**Matrix:** SOIL

**Received Date:** 9/7/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/8/2022 1:16:38 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/8/2022 1:16:38 PM
Surr: DNOP	89.6	21-129		%Rec	1	9/8/2022 1:16:38 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/8/2022 3:37:00 PM
Surr: BFB	99.9	37.7-212		%Rec	1	9/8/2022 3:37:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/8/2022 3:37:00 PM
Toluene	ND	0.050		mg/Kg	1	9/8/2022 3:37:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	9/8/2022 3:37:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	9/8/2022 3:37:00 PM
Surr: 4-Bromofluorobenzene	92.3	70-130		%Rec	1	9/8/2022 3:37:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	9/8/2022 4:32:30 PM

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

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

**Analytical Report**

Lab Order **2209222**

Date Reported: **9/19/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BS22-02 4'

**Project:** Falcon Compressor Station

**Collection Date:** 9/2/2022 9:05:00 AM

**Lab ID:** 2209222-002

**Matrix:** SOIL

**Received Date:** 9/7/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/8/2022 1:27:09 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/8/2022 1:27:09 PM
Surr: DNOP	90.9	21-129		%Rec	1	9/8/2022 1:27:09 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/8/2022 4:00:40 PM
Surr: BFB	98.9	37.7-212		%Rec	1	9/8/2022 4:00:40 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/8/2022 4:00:40 PM
Toluene	ND	0.048		mg/Kg	1	9/8/2022 4:00:40 PM
Ethylbenzene	ND	0.048		mg/Kg	1	9/8/2022 4:00:40 PM
Xylenes, Total	ND	0.097		mg/Kg	1	9/8/2022 4:00:40 PM
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	9/8/2022 4:00:40 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	9/8/2022 5:09:43 PM

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

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

**Analytical Report**

Lab Order **2209222**

Date Reported: **9/19/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BS22-03 4'

**Project:** Falcon Compressor Station

**Collection Date:** 9/2/2022 9:10:00 AM

**Lab ID:** 2209222-003

**Matrix:** SOIL

**Received Date:** 9/7/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	9/8/2022 1:37:41 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	9/8/2022 1:37:41 PM
Surr: DNOP	95.1	21-129		%Rec	1	9/8/2022 1:37:41 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/8/2022 4:24:23 PM
Surr: BFB	104	37.7-212		%Rec	1	9/8/2022 4:24:23 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/8/2022 4:24:23 PM
Toluene	ND	0.049		mg/Kg	1	9/8/2022 4:24:23 PM
Ethylbenzene	ND	0.049		mg/Kg	1	9/8/2022 4:24:23 PM
Xylenes, Total	ND	0.098		mg/Kg	1	9/8/2022 4:24:23 PM
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	9/8/2022 4:24:23 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	9/8/2022 6:11:48 PM

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

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

**Analytical Report**

Lab Order **2209222**

Date Reported: **9/19/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BS22-04 4'

**Project:** Falcon Compressor Station

**Collection Date:** 9/2/2022 9:15:00 AM

**Lab ID:** 2209222-004

**Matrix:** SOIL

**Received Date:** 9/7/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/8/2022 1:48:15 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/8/2022 1:48:15 PM
Surr: DNOP	95.0	21-129		%Rec	1	9/8/2022 1:48:15 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/8/2022 4:48:08 PM
Surr: BFB	101	37.7-212		%Rec	1	9/8/2022 4:48:08 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/8/2022 4:48:08 PM
Toluene	ND	0.049		mg/Kg	1	9/8/2022 4:48:08 PM
Ethylbenzene	ND	0.049		mg/Kg	1	9/8/2022 4:48:08 PM
Xylenes, Total	ND	0.099		mg/Kg	1	9/8/2022 4:48:08 PM
Surr: 4-Bromofluorobenzene	93.9	70-130		%Rec	1	9/8/2022 4:48:08 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	9/8/2022 6:24:13 PM

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

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

**Analytical Report**

Lab Order **2209222**

Date Reported: **9/19/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BS22-05 4'

**Project:** Falcon Compressor Station

**Collection Date:** 9/2/2022 9:20:00 AM

**Lab ID:** 2209222-005

**Matrix:** SOIL

**Received Date:** 9/7/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	9/8/2022 1:58:49 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	9/8/2022 1:58:49 PM
Surr: DNOP	96.9	21-129		%Rec	1	9/8/2022 1:58:49 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/8/2022 5:11:55 PM
Surr: BFB	101	37.7-212		%Rec	1	9/8/2022 5:11:55 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/8/2022 5:11:55 PM
Toluene	ND	0.049		mg/Kg	1	9/8/2022 5:11:55 PM
Ethylbenzene	ND	0.049		mg/Kg	1	9/8/2022 5:11:55 PM
Xylenes, Total	ND	0.098		mg/Kg	1	9/8/2022 5:11:55 PM
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	9/8/2022 5:11:55 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	9/8/2022 6:36:37 PM

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

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

**Analytical Report**

Lab Order **2209222**

Date Reported: **9/19/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BS22-06 4'

**Project:** Falcon Compressor Station

**Collection Date:** 9/2/2022 9:25:00 AM

**Lab ID:** 2209222-006

**Matrix:** SOIL

**Received Date:** 9/7/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/8/2022 2:09:22 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/8/2022 2:09:22 PM
Surr: DNOP	94.9	21-129		%Rec	1	9/8/2022 2:09:22 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/8/2022 5:35:38 PM
Surr: BFB	101	37.7-212		%Rec	1	9/8/2022 5:35:38 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/8/2022 5:35:38 PM
Toluene	ND	0.049		mg/Kg	1	9/8/2022 5:35:38 PM
Ethylbenzene	ND	0.049		mg/Kg	1	9/8/2022 5:35:38 PM
Xylenes, Total	ND	0.097		mg/Kg	1	9/8/2022 5:35:38 PM
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	9/8/2022 5:35:38 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	9/8/2022 6:49:02 PM

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

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

**Analytical Report**

Lab Order **2209222**

Date Reported: **9/19/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BS22-07 4'

**Project:** Falcon Compressor Station

**Collection Date:** 9/2/2022 9:30:00 AM

**Lab ID:** 2209222-007

**Matrix:** SOIL

**Received Date:** 9/7/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/8/2022 2:20:11 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/8/2022 2:20:11 PM
Surr: DNOP	106	21-129		%Rec	1	9/8/2022 2:20:11 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/8/2022 10:18:25 PM
Surr: BFB	97.2	37.7-212		%Rec	1	9/8/2022 10:18:25 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/8/2022 10:18:25 PM
Toluene	ND	0.049		mg/Kg	1	9/8/2022 10:18:25 PM
Ethylbenzene	ND	0.049		mg/Kg	1	9/8/2022 10:18:25 PM
Xylenes, Total	ND	0.098		mg/Kg	1	9/8/2022 10:18:25 PM
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	9/8/2022 10:18:25 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	59		mg/Kg	20	9/8/2022 7:01:27 PM

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

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

**Analytical Report**

Lab Order **2209222**

Date Reported: **9/19/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BS22-08 4'

**Project:** Falcon Compressor Station

**Collection Date:** 9/2/2022 9:35:00 AM

**Lab ID:** 2209222-008

**Matrix:** SOIL

**Received Date:** 9/7/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/8/2022 2:30:45 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/8/2022 2:30:45 PM
Surr: DNOP	98.9	21-129		%Rec	1	9/8/2022 2:30:45 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/8/2022 10:41:49 PM
Surr: BFB	99.0	37.7-212		%Rec	1	9/8/2022 10:41:49 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/8/2022 10:41:49 PM
Toluene	ND	0.050		mg/Kg	1	9/8/2022 10:41:49 PM
Ethylbenzene	ND	0.050		mg/Kg	1	9/8/2022 10:41:49 PM
Xylenes, Total	ND	0.099		mg/Kg	1	9/8/2022 10:41:49 PM
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	9/8/2022 10:41:49 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	9/8/2022 7:13:52 PM

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

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

**Analytical Report**

Lab Order **2209222**

Date Reported: **9/19/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BS22-09 4'

**Project:** Falcon Compressor Station

**Collection Date:** 9/2/2022 9:40:00 AM

**Lab ID:** 2209222-009

**Matrix:** SOIL

**Received Date:** 9/7/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/8/2022 2:41:22 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/8/2022 2:41:22 PM
Surr: DNOP	99.6	21-129		%Rec	1	9/8/2022 2:41:22 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/8/2022 11:05:10 PM
Surr: BFB	96.5	37.7-212		%Rec	1	9/8/2022 11:05:10 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/8/2022 11:05:10 PM
Toluene	ND	0.049		mg/Kg	1	9/8/2022 11:05:10 PM
Ethylbenzene	ND	0.049		mg/Kg	1	9/8/2022 11:05:10 PM
Xylenes, Total	ND	0.099		mg/Kg	1	9/8/2022 11:05:10 PM
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	9/8/2022 11:05:10 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	9/8/2022 7:26:16 PM

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

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

**Analytical Report**

Lab Order **2209222**

Date Reported: **9/19/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BS22-10 4'

**Project:** Falcon Compressor Station

**Collection Date:** 9/2/2022 9:45:00 AM

**Lab ID:** 2209222-010

**Matrix:** SOIL

**Received Date:** 9/7/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/8/2022 2:51:59 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/8/2022 2:51:59 PM
Surr: DNOP	86.7	21-129		%Rec	1	9/8/2022 2:51:59 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/8/2022 11:28:30 PM
Surr: BFB	96.8	37.7-212		%Rec	1	9/8/2022 11:28:30 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/8/2022 11:28:30 PM
Toluene	ND	0.049		mg/Kg	1	9/8/2022 11:28:30 PM
Ethylbenzene	ND	0.049		mg/Kg	1	9/8/2022 11:28:30 PM
Xylenes, Total	ND	0.097		mg/Kg	1	9/8/2022 11:28:30 PM
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	9/8/2022 11:28:30 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	9/8/2022 7:38:41 PM

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

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

**Analytical Report**

Lab Order **2209222**

Date Reported: **9/19/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BS22-16 4'

**Project:** Falcon Compressor Station

**Collection Date:** 9/2/2022 9:50:00 AM

**Lab ID:** 2209222-011

**Matrix:** SOIL

**Received Date:** 9/7/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/8/2022 3:02:56 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/8/2022 3:02:56 PM
Surr: DNOP	84.6	21-129		%Rec	1	9/8/2022 3:02:56 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/8/2022 11:51:51 PM
Surr: BFB	97.7	37.7-212		%Rec	1	9/8/2022 11:51:51 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/8/2022 11:51:51 PM
Toluene	ND	0.050		mg/Kg	1	9/8/2022 11:51:51 PM
Ethylbenzene	ND	0.050		mg/Kg	1	9/8/2022 11:51:51 PM
Xylenes, Total	ND	0.099		mg/Kg	1	9/8/2022 11:51:51 PM
Surr: 4-Bromofluorobenzene	93.5	70-130		%Rec	1	9/8/2022 11:51:51 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	9/8/2022 8:15:54 PM

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

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

**Analytical Report**

Lab Order **2209222**

Date Reported: **9/19/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** WS22-01 0-4'

**Project:** Falcon Compressor Station

**Collection Date:** 9/2/2022 10:30:00 AM

**Lab ID:** 2209222-012

**Matrix:** SOIL

**Received Date:** 9/7/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/8/2022 3:13:53 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/8/2022 3:13:53 PM
Surr: DNOP	90.9	21-129		%Rec	1	9/8/2022 3:13:53 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/9/2022 12:15:09 AM
Surr: BFB	98.1	37.7-212		%Rec	1	9/9/2022 12:15:09 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/9/2022 12:15:09 AM
Toluene	ND	0.050		mg/Kg	1	9/9/2022 12:15:09 AM
Ethylbenzene	ND	0.050		mg/Kg	1	9/9/2022 12:15:09 AM
Xylenes, Total	ND	0.099		mg/Kg	1	9/9/2022 12:15:09 AM
Surr: 4-Bromofluorobenzene	92.2	70-130		%Rec	1	9/9/2022 12:15:09 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	59		mg/Kg	20	9/8/2022 8:28:19 PM

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

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

**Analytical Report**

Lab Order **2209222**

Date Reported: **9/19/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** WS22-02 0-4'

**Project:** Falcon Compressor Station

**Collection Date:** 9/2/2022 10:35:00 AM

**Lab ID:** 2209222-013

**Matrix:** SOIL

**Received Date:** 9/7/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/8/2022 3:24:33 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/8/2022 3:24:33 PM
Surr: DNOP	90.0	21-129		%Rec	1	9/8/2022 3:24:33 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/9/2022 12:38:27 AM
Surr: BFB	96.4	37.7-212		%Rec	1	9/9/2022 12:38:27 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/9/2022 12:38:27 AM
Toluene	ND	0.050		mg/Kg	1	9/9/2022 12:38:27 AM
Ethylbenzene	ND	0.050		mg/Kg	1	9/9/2022 12:38:27 AM
Xylenes, Total	ND	0.099		mg/Kg	1	9/9/2022 12:38:27 AM
Surr: 4-Bromofluorobenzene	90.8	70-130		%Rec	1	9/9/2022 12:38:27 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	9/8/2022 8:40:43 PM

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

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

**Analytical Report**

Lab Order **2209222**

Date Reported: **9/19/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** WS22-03 0-4'

**Project:** Falcon Compressor Station

**Collection Date:** 9/2/2022 10:40:00 AM

**Lab ID:** 2209222-014

**Matrix:** SOIL

**Received Date:** 9/7/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/8/2022 3:35:13 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/8/2022 3:35:13 PM
Surr: DNOP	95.0	21-129		%Rec	1	9/8/2022 3:35:13 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/9/2022 1:01:46 AM
Surr: BFB	96.2	37.7-212		%Rec	1	9/9/2022 1:01:46 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/9/2022 1:01:46 AM
Toluene	ND	0.049		mg/Kg	1	9/9/2022 1:01:46 AM
Ethylbenzene	ND	0.049		mg/Kg	1	9/9/2022 1:01:46 AM
Xylenes, Total	ND	0.098		mg/Kg	1	9/9/2022 1:01:46 AM
Surr: 4-Bromofluorobenzene	90.5	70-130		%Rec	1	9/9/2022 1:01:46 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	9/8/2022 8:53:08 PM

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

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

**Analytical Report**

Lab Order **2209222**

Date Reported: **9/19/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** WS22-04 0-4'

**Project:** Falcon Compressor Station

**Collection Date:** 9/2/2022 10:45:00 AM

**Lab ID:** 2209222-015

**Matrix:** SOIL

**Received Date:** 9/7/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	9/8/2022 3:45:56 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	9/8/2022 3:45:56 PM
Surr: DNOP	92.0	21-129		%Rec	1	9/8/2022 3:45:56 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/9/2022 1:25:02 AM
Surr: BFB	95.4	37.7-212		%Rec	1	9/9/2022 1:25:02 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/9/2022 1:25:02 AM
Toluene	ND	0.050		mg/Kg	1	9/9/2022 1:25:02 AM
Ethylbenzene	ND	0.050		mg/Kg	1	9/9/2022 1:25:02 AM
Xylenes, Total	ND	0.10		mg/Kg	1	9/9/2022 1:25:02 AM
Surr: 4-Bromofluorobenzene	90.8	70-130		%Rec	1	9/9/2022 1:25:02 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	59		mg/Kg	20	9/8/2022 9:05:34 PM

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

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

**Analytical Report**

Lab Order **2209222**

Date Reported: **9/19/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** WS22-05 0-4'

**Project:** Falcon Compressor Station

**Collection Date:** 9/2/2022 10:50:00 AM

**Lab ID:** 2209222-016

**Matrix:** SOIL

**Received Date:** 9/7/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/8/2022 3:56:40 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/8/2022 3:56:40 PM
Surr: DNOP	94.5	21-129		%Rec	1	9/8/2022 3:56:40 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/9/2022 1:48:18 AM
Surr: BFB	96.7	37.7-212		%Rec	1	9/9/2022 1:48:18 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/9/2022 1:48:18 AM
Toluene	ND	0.050		mg/Kg	1	9/9/2022 1:48:18 AM
Ethylbenzene	ND	0.050		mg/Kg	1	9/9/2022 1:48:18 AM
Xylenes, Total	ND	0.10		mg/Kg	1	9/9/2022 1:48:18 AM
Surr: 4-Bromofluorobenzene	92.2	70-130		%Rec	1	9/9/2022 1:48:18 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	9/8/2022 9:17:58 PM

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

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

**Analytical Report**

Lab Order **2209222**

Date Reported: **9/19/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** WS22-06 0-4'

**Project:** Falcon Compressor Station

**Collection Date:** 9/2/2022 10:55:00 AM

**Lab ID:** 2209222-017

**Matrix:** SOIL

**Received Date:** 9/7/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/8/2022 4:07:25 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/8/2022 4:07:25 PM
Surr: DNOP	91.3	21-129		%Rec	1	9/8/2022 4:07:25 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/9/2022 2:34:48 AM
Surr: BFB	97.3	37.7-212		%Rec	1	9/9/2022 2:34:48 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/9/2022 2:34:48 AM
Toluene	ND	0.050		mg/Kg	1	9/9/2022 2:34:48 AM
Ethylbenzene	ND	0.050		mg/Kg	1	9/9/2022 2:34:48 AM
Xylenes, Total	ND	0.10		mg/Kg	1	9/9/2022 2:34:48 AM
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	9/9/2022 2:34:48 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	9/8/2022 9:30:22 PM

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

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

**Analytical Report**

Lab Order **2209222**

Date Reported: **9/19/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** WS22-07 0-4'

**Project:** Falcon Compressor Station

**Collection Date:** 9/2/2022 11:00:00 AM

**Lab ID:** 2209222-018

**Matrix:** SOIL

**Received Date:** 9/7/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/8/2022 4:18:12 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/8/2022 4:18:12 PM
Surr: DNOP	95.9	21-129		%Rec	1	9/8/2022 4:18:12 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/9/2022 2:58:02 AM
Surr: BFB	97.1	37.7-212		%Rec	1	9/9/2022 2:58:02 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/9/2022 2:58:02 AM
Toluene	ND	0.049		mg/Kg	1	9/9/2022 2:58:02 AM
Ethylbenzene	ND	0.049		mg/Kg	1	9/9/2022 2:58:02 AM
Xylenes, Total	ND	0.099		mg/Kg	1	9/9/2022 2:58:02 AM
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	9/9/2022 2:58:02 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	9/8/2022 9:42:47 PM

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

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

**Analytical Report**

Lab Order **2209222**

Date Reported: **9/19/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** WS22-08 0-4'

**Project:** Falcon Compressor Station

**Collection Date:** 9/2/2022 11:05:00 AM

**Lab ID:** 2209222-019

**Matrix:** SOIL

**Received Date:** 9/7/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/8/2022 4:29:06 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/8/2022 4:29:06 PM
Surr: DNOP	97.4	21-129		%Rec	1	9/8/2022 4:29:06 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/9/2022 3:21:16 AM
Surr: BFB	97.9	37.7-212		%Rec	1	9/9/2022 3:21:16 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/9/2022 3:21:16 AM
Toluene	ND	0.049		mg/Kg	1	9/9/2022 3:21:16 AM
Ethylbenzene	ND	0.049		mg/Kg	1	9/9/2022 3:21:16 AM
Xylenes, Total	ND	0.098		mg/Kg	1	9/9/2022 3:21:16 AM
Surr: 4-Bromofluorobenzene	93.0	70-130		%Rec	1	9/9/2022 3:21:16 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	61		mg/Kg	20	9/8/2022 9:55:11 PM

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

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

**Analytical Report**

Lab Order **2209222**

Date Reported: **9/19/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** WS22-15 0-4'

**Project:** Falcon Compressor Station

**Collection Date:** 9/2/2022 11:10:00 AM

**Lab ID:** 2209222-020

**Matrix:** SOIL

**Received Date:** 9/7/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/8/2022 4:40:00 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/8/2022 4:40:00 PM
Surr: DNOP	99.6	21-129		%Rec	1	9/8/2022 4:40:00 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/9/2022 3:44:31 AM
Surr: BFB	93.4	37.7-212		%Rec	1	9/9/2022 3:44:31 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/9/2022 3:44:31 AM
Toluene	ND	0.049		mg/Kg	1	9/9/2022 3:44:31 AM
Ethylbenzene	ND	0.049		mg/Kg	1	9/9/2022 3:44:31 AM
Xylenes, Total	ND	0.097		mg/Kg	1	9/9/2022 3:44:31 AM
Surr: 4-Bromofluorobenzene	89.1	70-130		%Rec	1	9/9/2022 3:44:31 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	9/8/2022 10:07:36 PM

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

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



LELAP Certificate Number: 01955  
A2LA Accredited (DoD ELAP-QSM 5.4) Certificate Number: 6429.01

# ANALYTICAL RESULTS

## PERFORMED BY

**Pace Analytical Gulf Coast**  
7979 Innovation Park Dr.  
Baton Rouge, LA 70820  
(225) 769-4900

Report Date 09/17/2022

Report # 222091255



**Project 2209222**

Samples Collected 9/2/22

<b>Deliver To</b>	<b>Additional Recipients</b>
Reporting Hall Environmental 4901 Hawkins NE Albuquerque, NM 87109 505-345-3975	NONE





**Report#:** 222091255  
**Project ID:** 2209222

**Report Date:** 09/17/2022

## Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with Pace Gulf Coast's Standard Operating Procedures.

### Common Abbreviations that may be Utilized in this Report

<b>ND</b>	Indicates the result was Not Detected at the specified reporting limit
<b>NO</b>	Indicates the sample did not ignite when preliminary test performed for EPA Method 1030
<b>DO</b>	Indicates the result was Diluted Out
<b>MI</b>	Indicates the result was subject to Matrix Interference
<b>TNTC</b>	Indicates the result was Too Numerous To Count
<b>SUBC</b>	Indicates the analysis was Sub-Contracted
<b>FLD</b>	Indicates the analysis was performed in the Field
<b>DL</b>	Detection Limit
<b>LOD</b>	Limit of Detection
<b>LOQ</b>	Limit of Quantitation
<b>RE</b>	Re-analysis
<b>CF</b>	HPLC or GC Confirmation
<b>00:01</b>	Reported as a time equivalent to 12:00 AM

### Reporting Flags that may be Utilized in this Report

<b>J or I</b>	Indicates the result is between the MDL and LOQ
<b>J</b>	DOD flag on analyte in the parent sample for MS/MSD outside acceptance criteria
<b>U</b>	Indicates the compound was analyzed for but not detected
<b>B or V</b>	Indicates the analyte was detected in the associated Method Blank
<b>Q</b>	Indicates a non-compliant QC Result (See Q Flag Application Report)
<b>*</b>	Indicates a non-compliant or not applicable QC recovery or RPD – see narrative
<b>E</b>	Organics - The result is estimated because it exceeded the instrument calibration range
<b>E</b>	Metals - % difference for the serial dilution is > 10%
<b>L</b>	Reporting Limits adjusted to meet risk-based limit.
<b>P</b>	RPD between primary and confirmation result is greater than 40
<b>DL</b>	Diluted analysis – when appended to Client Sample ID

Sample receipt at Pace Gulf Coast is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of Pace Gulf Coast. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with The NELAC Institute (TNI) Standard 2009 and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Authorized Signature  
 Pace Gulf Coast Report 222091255



**Report#:** 222091255  
**Project ID:** 2209222

**Report Date:** 09/17/2022

## Certifications

Certification	Certification Number
A2LA Accredited (DoD ELAP-QSM 5.4)	6429.01
Alabama	01955
Arkansas	88-0655
Colorado	01955
Delaware	01955
Florida	E87854
Georgia	01955
Hawaii	01955
Idaho	01955
Illinois	200048
Indiana	01955
Kansas	E-10354
Kentucky	95
Louisiana	01955
Maryland	01955
Massachusetts	01955
Michigan	01955
Mississippi	01955
Missouri	01955
Montana	N/A
Nebraska	01955
New Mexico	01955
North Carolina	618
North Dakota	R-195
Oklahoma	9403
South Carolina	73006001
South Dakota	01955
Tennessee	01955
Texas	T104704178
Vermont	01955
Virginia	460215
Washington	C929
USDA Soil Permit	P330-16-00234



**Report#:** 222091255  
**Project ID:** 2209222

**Report Date:** 09/17/2022

## Case Narrative

**Client:** Hall Environmental      **Report:** 222091255

Pace Analytical Gulf Coast received and analyzed the sample(s) listed on the Report Sample Summary page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

### **SEMI-VOLATILES GAS CHROMATOGRAPHY**

In the GCSV EPA 8015C analysis for triethylene glycol, the MS/MSD recoveries were outside QC limits in a similar manner. This can be attributed to a matrix interference. The LCS/LCSD recoveries are acceptable.

In the EPA 8015C analysis for batch 749698 , the MS/MSD exhibited RPD failures.



**Report#:** 222091255  
**Project ID:** 2209222

**Report Date:** 09/17/2022

## Sample Summary

Lab ID	Client ID	Matrix	Collect Date	Receive Date
22209125501	220922-001B BS22-01 4'	Solid	9/02/22 09:00	9/08/22 10:15
22209125502	220922-002B BS22-02 4'	Solid	9/02/22 09:05	9/08/22 10:15
22209125503	220922-003B BS22-03 4'	Solid	9/02/22 09:10	9/08/22 10:15
22209125504	220922-004B BS22-04 4'	Solid	9/02/22 09:15	9/08/22 10:15
22209125505	220922-005B BS22-05 4'	Solid	9/02/22 09:20	9/08/22 10:15
22209125506	220922-006B BS22-06 4'	Solid	9/02/22 09:25	9/08/22 10:15
22209125507	220922-007B BS22-07 4'	Solid	9/02/22 09:30	9/08/22 10:15
22209125508	220922-008B BS22-08 4'	Solid	9/02/22 09:35	9/08/22 10:15
22209125509	220922-009B BS22-09 4'	Solid	9/02/22 09:40	9/08/22 10:15
22209125510	220922-010B BS22-10 4'	Solid	9/02/22 09:45	9/08/22 10:15
22209125511	220922-011B BS22-16 4'	Solid	9/02/22 09:50	9/08/22 10:15
22209125512	220922-012B WS22-01 0-4'	Solid	9/02/22 10:30	9/08/22 10:15
22209125513	220922-013B WS22-02 0-4'	Solid	9/02/22 10:35	9/08/22 10:15
22209125514	220922-014B WS22-03 0-4'	Solid	9/02/22 10:40	9/08/22 10:15
22209125515	220922-015B WS22-04 0-4'	Solid	9/02/22 10:45	9/08/22 10:15
22209125516	220922-016B WS22-05 0-4'	Solid	9/02/22 10:50	9/08/22 10:15
22209125517	220922-017B WS22-06 0-4'	Solid	9/02/22 10:55	9/08/22 10:15
22209125518	220922-018B WS22-07 0-4'	Solid	9/02/22 11:00	9/08/22 10:15
22209125519	220922-019B WS22-08 0-4'	Solid	9/02/22 11:05	9/08/22 10:15
22209125520	220922-020B WS22-15 0-4'	Solid	9/02/22 11:10	9/08/22 10:15



**Report#:** 222091255  
**Project ID:** 2209222

**Report Date:** 09/17/2022

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## Detect Summary

No analytes were detected for analyses performed by Pace Gulf Coast.



**Report#:** 222091255  
**Project ID:** 2209222

**Report Date:** 09/17/2022

## Sample Results

<b>220922-001B BS22-01 4'</b>	<b>Collect Date</b> 09/02/2022 09:00	<b>Lab ID</b> 22209125501
	<b>Receive Date</b> 09/08/2022 10:15	<b>Matrix</b> Solid

EPA 8015C \*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	09/15/22 16:16	749698	EKR	5.01

<b>CAS#</b> 112-27-6	<b>Parameter</b> Triethylene Glycol	<b>Result</b> ND	<b>LOQ</b> 5260	<b>Units</b> ug/Kg
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<b>220922-002B BS22-02 4'</b>	<b>Collect Date</b> 09/02/2022 09:05	<b>Lab ID</b> 22209125502
	<b>Receive Date</b> 09/08/2022 10:15	<b>Matrix</b> Solid

EPA 8015C \*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	09/15/22 16:26	749698	EKR	24.12

<b>CAS#</b> 112-27-6	<b>Parameter</b> Triethylene Glycol	<b>Result</b> ND	<b>LOQ</b> 6590	<b>Units</b> ug/Kg
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<b>220922-003B BS22-03 4'</b>	<b>Collect Date</b> 09/02/2022 09:10	<b>Lab ID</b> 22209125503
	<b>Receive Date</b> 09/08/2022 10:15	<b>Matrix</b> Solid

EPA 8015C \*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	09/15/22 16:35	749698	EKR	4.92

<b>CAS#</b> 112-27-6	<b>Parameter</b> Triethylene Glycol	<b>Result</b> ND	<b>LOQ</b> 5260	<b>Units</b> ug/Kg
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<b>220922-004B BS22-04 4'</b>	<b>Collect Date</b> 09/02/2022 09:15	<b>Lab ID</b> 22209125504
	<b>Receive Date</b> 09/08/2022 10:15	<b>Matrix</b> Solid

EPA 8015C \*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	09/15/22 16:45	749698	EKR	.82

<b>CAS#</b> 112-27-6	<b>Parameter</b> Triethylene Glycol	<b>Result</b> ND	<b>LOQ</b> 5040	<b>Units</b> ug/Kg
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**Report#:** 222091255  
**Project ID:** 2209222

**Report Date:** 09/17/2022

## Sample Results

<b>220922-005B BS22-05 4'</b>	<b>Collect Date</b>	09/02/2022 09:20	<b>Lab ID</b>	22209125505
	<b>Receive Date</b>	09/08/2022 10:15	<b>Matrix</b>	Solid

EPA 8015C

\*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	09/15/22 16:54	749698	EKR	8.83

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	ND	5480	ug/Kg

<b>220922-006B BS22-06 4'</b>	<b>Collect Date</b>	09/02/2022 09:25	<b>Lab ID</b>	22209125506
	<b>Receive Date</b>	09/08/2022 10:15	<b>Matrix</b>	Solid

EPA 8015C

\*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	09/15/22 14:26	749698	EKR	12.49

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	ND	5570	ug/Kg

<b>220922-007B BS22-07 4'</b>	<b>Collect Date</b>	09/02/2022 09:30	<b>Lab ID</b>	22209125507
	<b>Receive Date</b>	09/08/2022 10:15	<b>Matrix</b>	Solid

EPA 8015C

\*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	09/15/22 14:35	749698	EKR	4.65

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	ND	5120	ug/Kg

<b>220922-008B BS22-08 4'</b>	<b>Collect Date</b>	09/02/2022 09:35	<b>Lab ID</b>	22209125508
	<b>Receive Date</b>	09/08/2022 10:15	<b>Matrix</b>	Solid

EPA 8015C

\*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	09/15/22 14:44	749698	EKR	4.66

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	ND	5240	ug/Kg



**Report#:** 222091255  
**Project ID:** 2209222

**Report Date:** 09/17/2022

## Sample Results

<b>220922-009B BS22-09 4'</b>	<b>Collect Date</b>	09/02/2022 09:40	<b>Lab ID</b>	22209125509
	<b>Receive Date</b>	09/08/2022 10:15	<b>Matrix</b>	Solid

EPA 8015C

\*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	09/15/22 14:54	749698	EKR	5.29

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	ND	5280	ug/Kg

<b>220922-010B BS22-10 4'</b>	<b>Collect Date</b>	09/02/2022 09:45	<b>Lab ID</b>	22209125510
	<b>Receive Date</b>	09/08/2022 10:15	<b>Matrix</b>	Solid

EPA 8015C

\*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	09/15/22 15:03	749698	EKR	12.58

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	ND	5580	ug/Kg

<b>220922-011B BS22-16 4'</b>	<b>Collect Date</b>	09/02/2022 09:50	<b>Lab ID</b>	22209125511
	<b>Receive Date</b>	09/08/2022 10:15	<b>Matrix</b>	Solid

EPA 8015C

\*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	09/15/22 15:12	749698	EKR	4.69

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	ND	5250	ug/Kg

<b>220922-012B WS22-01 0-4'</b>	<b>Collect Date</b>	09/02/2022 10:30	<b>Lab ID</b>	22209125512
	<b>Receive Date</b>	09/08/2022 10:15	<b>Matrix</b>	Solid

EPA 8015C

\*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	09/15/22 15:21	749698	EKR	11.08

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	ND	5490	ug/Kg



**Report#:** 222091255  
**Project ID:** 2209222

**Report Date:** 09/17/2022

## Sample Results

<b>220922-013B WS22-02 0-4'</b>	<b>Collect Date</b>	09/02/2022 10:35	<b>Lab ID</b>	22209125513
	<b>Receive Date</b>	09/08/2022 10:15	<b>Matrix</b>	Solid

### EPA 8015C

\*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	09/15/22 15:31	749698	EKR	18.1

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	ND	6100	ug/Kg

<b>220922-014B WS22-03 0-4'</b>	<b>Collect Date</b>	09/02/2022 10:40	<b>Lab ID</b>	22209125514
	<b>Receive Date</b>	09/08/2022 10:15	<b>Matrix</b>	Solid

### EPA 8015C

\*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	09/15/22 15:40	749698	EKR	3.32

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	ND	5050	ug/Kg

<b>220922-015B WS22-04 0-4'</b>	<b>Collect Date</b>	09/02/2022 10:45	<b>Lab ID</b>	22209125515
	<b>Receive Date</b>	09/08/2022 10:15	<b>Matrix</b>	Solid

### EPA 8015C

\*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	09/14/22 19:06	749487	MFS	4.7

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	ND	5250	ug/Kg

<b>220922-016B WS22-05 0-4'</b>	<b>Collect Date</b>	09/02/2022 10:50	<b>Lab ID</b>	22209125516
	<b>Receive Date</b>	09/08/2022 10:15	<b>Matrix</b>	Solid

### EPA 8015C

\*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	09/15/22 15:49	749698	EKR	4.79

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	ND	5120	ug/Kg



**Report#:** 222091255  
**Project ID:** 2209222

**Report Date:** 09/17/2022

## Sample Results

<b>220922-017B WS22-06 0-4'</b>	<b>Collect Date</b>	09/02/2022 10:55	<b>Lab ID</b>	22209125517
	<b>Receive Date</b>	09/08/2022 10:15	<b>Matrix</b>	Solid

### EPA 8015C

\*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	09/15/22 15:57	749698	EKR	4.1

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	ND	5210	ug/Kg

<b>220922-018B WS22-07 0-4'</b>	<b>Collect Date</b>	09/02/2022 11:00	<b>Lab ID</b>	22209125518
	<b>Receive Date</b>	09/08/2022 10:15	<b>Matrix</b>	Solid

### EPA 8015C

\*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	09/15/22 16:08	749698	EKR	4.86

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	ND	5130	ug/Kg

<b>220922-019B WS22-08 0-4'</b>	<b>Collect Date</b>	09/02/2022 11:05	<b>Lab ID</b>	22209125519
	<b>Receive Date</b>	09/08/2022 10:15	<b>Matrix</b>	Solid

### EPA 8015C

\*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	09/14/22 19:56	749487	MFS	4.71

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	ND	5250	ug/Kg

<b>220922-020B WS22-15 0-4'</b>	<b>Collect Date</b>	09/02/2022 11:10	<b>Lab ID</b>	22209125520
	<b>Receive Date</b>	09/08/2022 10:15	<b>Matrix</b>	Solid

### EPA 8015C

\*Results and limits adjusted for moisture content

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	09/14/22 20:05	749487	MFS	4.63

CAS#	Parameter	Result	LOQ	Units
112-27-6	Triethylene Glycol	ND	5240	ug/Kg



**Report#:** 222091255  
**Project ID:** 2209222

**Report Date:** 09/17/2022

## GC Semi-Volatiles QC Summary

<b>Analytical Batch</b> 749487		Client ID MB749487	Lab ID 2394267	Sample Type MB	Prep Date NA	Analysis Date 09/14/22 18:03	Matrix Solid	LCS749487 2394268 LCS NA 09/14/22 17:32	Solid	LCS749487 2394269 LCS NA 09/14/22 17:42	Solid	
<b>EPA 8015C</b>		Units Result	ug/Kg LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Triethylene Glycol	112-27-6	ND	5000	62500	34900	56	40 - 140	62500	35200	56	1	40

<b>Analytical Batch</b> 749698		Client ID MB749698	Lab ID 2395313	Sample Type MB	Prep Date NA	Analysis Date 09/15/22 14:16	Matrix Solid	LCS749698 2395314 LCS NA 09/15/22 09:59	Solid	LCS749698 2395932 LCS NA 09/15/22 13:22	Solid	
<b>EPA 8015C</b>		Units Result	ug/Kg LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Triethylene Glycol	112-27-6	ND	5000	61000	36900	61	40 - 140	61000	42900	70	15	40

<b>Analytical Batch</b> 749698		Client ID 220922-001B BS22-01 4'	Lab ID 22209125501	Sample Type SAMPLE	Prep Date NA	Analysis Date 09/15/2022 16:16	Matrix Solid	2394433MS 2395315 MS NA 09/15/22 11:07	Solid	2394433MSD 2395316 MSD NA 09/15/22 11:32	Solid	
<b>EPA 8015C</b>		Units Result	ug/Kg LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Triethylene Glycol	112-27-6	0.00	5260	64200	11400	18*	40 - 140	64200	19600	31*	53*	40



CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 2

Client ID: 5579 - Hall Environmental  
 SDG: 222091255  
 PM: RWe

SUB CONTRACTOR: **PACE LA** COMPANY: **PACE Analytical Gulf Coast** PHONE: **(225) 769-4900** FAX:  
 ADDRESS: **7979 Innovation Park Dr.** ACCOUNT #: EMAIL:  
 CITY, STATE, ZIP: **Baton Rouge, LA 70820**

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2209222-001B	BS22-01 4'	4OZGU	Soil	9/2/2022 9:00:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* 1
2	2209222-002B	BS22-02 4'	4OZGU	Soil	9/2/2022 9:05:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* 2
3	2209222-003B	BS22-03 4'	4OZGU	Soil	9/2/2022 9:10:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* 3
4	2209222-004B	BS22-04 4'	4OZGU	Soil	9/2/2022 9:15:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* 4
5	2209222-005B	BS22-05 4'	4OZGU	Soil	9/2/2022 9:20:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* 5
6	2209222-006B	BS22-06 4'	4OZGU	Soil	9/2/2022 9:25:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* 6
7	2209222-007B	BS22-07 4'	4OZGU	Soil	9/2/2022 9:30:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* 7
8	2209222-008B	BS22-08 4'	4OZGU	Soil	9/2/2022 9:35:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* 8
9	2209222-009B	BS22-09 4'	4OZGU	Soil	9/2/2022 9:40:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* 9
10	2209222-010B	BS22-10 4'	4OZGU	Soil	9/2/2022 9:45:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* 10
11	2209222-011B	BS22-16 4'	4OZGU	Soil	9/2/2022 9:50:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* 11
12	2209222-012B	WS22-01 0-4'	4OZGU	Soil	9/2/2022 10:30:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* 12
13	2209222-013B	WS22-02 0-4'	4OZGU	Soil	9/2/2022 10:35:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* 13

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By: <i>su</i>	Date: 9/7/2022	Time: 12:31 PM	Received By:	Date:	Time:	REPORT TRANSMITTAL DESIRED: <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE  FOR LAB USE ONLY Temp of samples: <i>2.8°C</i> Attempt to Cool? _____ Comments: <i>7778 7245 2753</i>
Relinquished By: <i>FedEx</i>	Date: 9/18/22	Time: 10:15	Received By: <i>[Signature]</i>	Date: 9/18/22	Time: 10:15	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
TAT:    Standard <input type="checkbox"/> <b>RUSH</b> Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/>						



CHAIN OF CUSTODY RECORD

PAGE: 2 OF: 2

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

SUB CONTRACTOR: <b>PACE LA</b>		COMPANY: <b>PACE Analytical Gulf Coast</b>		PHONE: <b>(225) 769-4900</b>		FAX:	
ADDRESS: <b>7979 Innovation Park Dr.</b>				ACCOUNT #:		EMAIL:	
CITY, STATE, ZIP: <b>Baton Rouge, LA 70820</b>							
ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
14	2209222-014B	WS22-03 0-4'	4OZGU	Soil	9/2/2022 10:40:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* <span style="float: right;">14</span>
15	2209222-015B	WS22-04 0-4'	4OZGU	Soil	9/2/2022 10:45:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* <span style="float: right;">15</span>
16	2209222-016B	WS22-05 0-4'	4OZGU	Soil	9/2/2022 10:50:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* <span style="float: right;">16</span>
17	2209222-017B	WS22-06 0-4'	4OZGU	Soil	9/2/2022 10:55:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* <span style="float: right;">17</span>
18	2209222-018B	WS22-07 0-4'	4OZGU	Soil	9/2/2022 11:00:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* <span style="float: right;">18</span>
19	2209222-019B	WS22-08 0-4'	4OZGU	Soil	9/2/2022 11:05:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* <span style="float: right;">19</span>
20	2209222-020B	WS22-15 0-4'	4OZGU	Soil	9/2/2022 11:10:00 AM	1	TEG Triethylene Glycol *RUSH ASAP* <span style="float: right;">20</span>

Client ID: 5579 - Hall Environmental  
 SDG: 222091255  
 PM: RWe

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By: <i>Sed</i>	Date: 9/7/2022	Time: 12:31 PM	Received By:	Date:	Time:	REPORT TRANSMITTAL DESIRED: <input type="checkbox"/> HARD COPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE  FOR LAB USE ONLY  Temp of samples _____ C    Attempt to Cool? _____  Comments: _____
Relinquished By: <i>Fed</i>	Date: 9/8/22	Time: 10:15	Received By: <i>[Signature]</i>	Date: 9/8/22	Time: 10:15	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
TAT:    Standard <input type="checkbox"/> <b>RUSH</b> <input checked="" type="checkbox"/> Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/>						



# SAMPLE RECEIVING CHECKLIST



SAMPLE DELIVERY GROUP 222091255		CHECKLIST		YES	NO
<b>Client</b> 5579 - Hall Environmental	<b>PM R/W</b> 5579 - Hall Environmental	<b>Transport Method</b> FEDEX	Samples received with proper thermal preservation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Profile Number</b> 300330	<b>Received By</b> Roberts, George S.		Radioactivity is <1600 cpm? If no, record cpm value in notes section.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Line Item(s)</b> 1 - Glycol - Soil	<b>Receive Date(s)</b> 09/08/22		COC relinquished and complete (including sampleIDs, collect times, and sampler)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			All containers received in good condition and within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			All sample labels and containers received match the chain of custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Preservative added to any containers?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			If received, was headspace for VOC water containers < 6mm?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Samples collected in containers provided by Pace Gulf Coast?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COOLERS		DISCREPANCIES	LAB PRESERVATIONS		
<b>Airbill</b> 777872452753	<b>Thermometer ID:</b> E42	<b>Temp °C</b> 2.8	None	None	
<b>NOTES</b>					

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2209222

19-Sep-22

**Client:** Devon Energy  
**Project:** Falcon Compressor Station

Sample ID: <b>MB-70044</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>70044</b>	RunNo: <b>90888</b>								
Prep Date: <b>9/8/2022</b>	Analysis Date: <b>9/8/2022</b>	SeqNo: <b>3250147</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-70044</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>70044</b>	RunNo: <b>90888</b>								
Prep Date: <b>9/8/2022</b>	Analysis Date: <b>9/8/2022</b>	SeqNo: <b>3250148</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.7	90	110			

Sample ID: <b>MB-70062</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>70062</b>	RunNo: <b>90888</b>								
Prep Date: <b>9/8/2022</b>	Analysis Date: <b>9/8/2022</b>	SeqNo: <b>3250177</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-70062</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>70062</b>	RunNo: <b>90888</b>								
Prep Date: <b>9/8/2022</b>	Analysis Date: <b>9/8/2022</b>	SeqNo: <b>3250178</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.8	90	110			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2209222

19-Sep-22

**Client:** Devon Energy  
**Project:** Falcon Compressor Station

Sample ID: <b>LCS-70017</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>70017</b>	RunNo: <b>90851</b>								
Prep Date: <b>9/7/2022</b>	Analysis Date: <b>9/8/2022</b>	SeqNo: <b>3249171</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	15	50.00	0	82.8	64.4	127			
Surr: DNOP	4.4		5.000		87.1	21	129			

Sample ID: <b>MB-70017</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>70017</b>	RunNo: <b>90851</b>								
Prep Date: <b>9/7/2022</b>	Analysis Date: <b>9/8/2022</b>	SeqNo: <b>3249173</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.4		10.00		83.8	21	129			

Sample ID: <b>2209222-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>BS22-01 4'</b>	Batch ID: <b>70017</b>	RunNo: <b>90851</b>								
Prep Date: <b>9/7/2022</b>	Analysis Date: <b>9/8/2022</b>	SeqNo: <b>3250631</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	15	48.97	0	89.7	36.1	154			
Surr: DNOP	4.5		4.897		91.8	21	129			

Sample ID: <b>2209222-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>BS22-01 4'</b>	Batch ID: <b>70017</b>	RunNo: <b>90851</b>								
Prep Date: <b>9/7/2022</b>	Analysis Date: <b>9/8/2022</b>	SeqNo: <b>3250632</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	14	48.17	0	91.3	36.1	154	0.117	33.9	
Surr: DNOP	4.6		4.817		95.5	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2209222

19-Sep-22

**Client:** Devon Energy  
**Project:** Falcon Compressor Station

Sample ID: <b>mb-70012</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>70012</b>	RunNo: <b>90890</b>								
Prep Date: <b>9/7/2022</b>	Analysis Date: <b>9/8/2022</b>	SeqNo: <b>3249699</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	37.7	212			

Sample ID: <b>lcs-70012</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>70012</b>	RunNo: <b>90890</b>								
Prep Date: <b>9/7/2022</b>	Analysis Date: <b>9/8/2022</b>	SeqNo: <b>3249700</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.6	72.3	137			
Surr: BFB	2000		1000		199	37.7	212			

Sample ID: <b>2209222-001ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BS22-01 4'</b>	Batch ID: <b>70012</b>	RunNo: <b>90890</b>								
Prep Date: <b>9/7/2022</b>	Analysis Date: <b>9/8/2022</b>	SeqNo: <b>3249702</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.73	0	97.6	70	130			
Surr: BFB	2000		989.1		201	37.7	212			

Sample ID: <b>2209222-001amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BS22-01 4'</b>	Batch ID: <b>70012</b>	RunNo: <b>90890</b>								
Prep Date: <b>9/7/2022</b>	Analysis Date: <b>9/8/2022</b>	SeqNo: <b>3249703</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	24.80	0	83.8	70	130	14.8	20	
Surr: BFB	1800		992.1		186	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2209222

19-Sep-22

**Client:** Devon Energy  
**Project:** Falcon Compressor Station

Sample ID: <b>mb-70012</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>70012</b>	RunNo: <b>90890</b>								
Prep Date: <b>9/7/2022</b>	Analysis Date: <b>9/8/2022</b>	SeqNo: <b>3249734</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.5	70	130			

Sample ID: <b>LCS-70012</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>70012</b>	RunNo: <b>90890</b>								
Prep Date: <b>9/7/2022</b>	Analysis Date: <b>9/8/2022</b>	SeqNo: <b>3249735</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.0	80	120			
Toluene	0.95	0.050	1.000	0	95.4	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.3	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.7	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.8	70	130			

Sample ID: <b>2209222-002ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>BS22-02 4'</b>	Batch ID: <b>70012</b>	RunNo: <b>90890</b>								
Prep Date: <b>9/7/2022</b>	Analysis Date: <b>9/8/2022</b>	SeqNo: <b>3249738</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	0.9891	0	97.5	68.8	120			
Toluene	1.0	0.049	0.9891	0	101	73.6	124			
Ethylbenzene	1.0	0.049	0.9891	0	102	72.7	129			
Xylenes, Total	3.0	0.099	2.967	0	100	75.7	126			
Surr: 4-Bromofluorobenzene	0.92		0.9891		93.4	70	130			

Sample ID: <b>2209222-002amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>BS22-02 4'</b>	Batch ID: <b>70012</b>	RunNo: <b>90890</b>								
Prep Date: <b>9/7/2022</b>	Analysis Date: <b>9/8/2022</b>	SeqNo: <b>3249739</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9921	0	103	68.8	120	6.23	20	
Toluene	1.1	0.050	0.9921	0	107	73.6	124	6.23	20	
Ethylbenzene	1.1	0.050	0.9921	0	108	72.7	129	6.16	20	
Xylenes, Total	3.2	0.099	2.976	0	107	75.7	126	7.00	20	
Surr: 4-Bromofluorobenzene	0.94		0.9921		94.7	70	130	0	0	

**Qualifiers:**

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



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: 2209222 RcptNo: 1

Received By: Juan Rojas 9/7/2022 7:30:00 AM
Completed By: Sean Livingston 9/7/2022 8:18:31 AM
Reviewed By: DAD 9/7/22

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [ ] Not Present [ ]
2. How was the sample delivered? Courier

Log In

- 3. Was an attempt made to cool the samples? Yes [checked] No [ ] NA [ ]
4. Were all samples received at a temperature of >0° C to 6.0° C Yes [checked] No [ ] NA [ ]
5. Sample(s) in proper container(s)? Yes [checked] No [ ]
6. Sufficient sample volume for indicated test(s)? Yes [checked] No [ ]
7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No [ ]
8. Was preservative added to bottles? Yes [ ] No [checked] NA [ ]
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [ ] No [ ] NA [checked]
10. Were any sample containers received broken? Yes [ ] No [checked]
11. Does paperwork match bottle labels? Yes [checked] No [ ]
12. Are matrices correctly identified on Chain of Custody? Yes [checked] No [ ]
13. Is it clear what analyses were requested? Yes [checked] No [ ]
14. Were all holding times able to be met? Yes [checked] No [ ]

# of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: KPA 9.07.22

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [checked]

Person Notified: Date:
By Whom: Via: [ ] eMail [ ] Phone [ ] Fax [ ] In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 1.7, Good, [ ], [ ], [ ]

### Chain-of-Custody Record

Client: Devon Energy  
D. Woodall / W. Mathews  
 Mailing Address:

Turn-Around Time: 48 HR  
 Standard  Rush

Project Name:  
Falcon Compressor Station

Project #:  
22E-00924

Project Manager:  
Kent Stallings

Sampler: MSP  
 On Ice:  Yes  No  
 # of Coolers: 1

Cooler Temp (including CF): 16.1 ± 0.1 = 17 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
9/2	9:00	Soil	BS22-01	402	Ice	2209222 001
	9:05		BS22-02			002
	9:10		BS22-03			003
	9:15		BS22-04			004
	9:20		BS22-05			005
	9:25		BS22-06			006
	9:30		BS22-07			007
	9:35		BS22-08			008
	9:40		BS22-09			009
	9:45		BS22-10			010
	9:50		BS22-16			011

Relinquished by: [Signature] Date: 9/16/20 Time: 10:30  
 Received by: [Signature] Date: 9/16/20 Time: 19:00

Relinquished by: [Signature] Date: 9/16/20 Time: 19:00  
 Received by: [Signature] Date: 9/16/20 Time: 19:00



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

**Analysis Request**

<input checked="" type="checkbox"/> STEL / MTBE / TMB's (8021)	<input checked="" type="checkbox"/> TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	<input checked="" type="checkbox"/> Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	<u>TEG</u>
--	--	----------------------------	--------------------	--------------------------	---------------	--	------------	-----------------	---------------------------------	------------

Remarks:  
Direct bill Devon ac: M.Pappin

Ref carrier 9/16/20 7:30W/O # : 21012037

### Chain-of-Custody Record

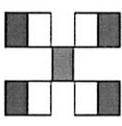
Client: Devon Energy  
D. Woodard / W. Mathews  
 Mailing Address: \_\_\_\_\_  
 Phone #: \_\_\_\_\_  
 email or Fax#: \_\_\_\_\_  
 QA/QC Package:  Level 4 (Full Validation)  
 Standard  Az Compliance  
 Accreditation:  NELAC  Other \_\_\_\_\_  
 EDD (Type) \_\_\_\_\_

Turn-Around Time: 48 HR  
 Standard  Rush  
 Project Name: Falcon Compressor Station  
 Project #: 22E-00924

Project Manager: Kent Stallings  
 Sampler: MJP  
 On Ice:  Yes  No  
 # of Coolers: 1  
 Cooler Temp (including CF): 16.0 ± 0.1 = 1.7 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
9/2	10:30	Soil	WS22-01 0-4'	402	ice	012
	10:35		WS22-02 0-4'			013
	10:40		WS22-03 0-4'			014
	10:45		WS22-04 0-4'			015
	10:50		WS22-05 0-4'			016
	10:55		WS22-06 0-4'			017
	11:00		WS22-07 0-4'			018
	11:05		WS22-08 0-4'			019
	11:10		WS22-15 0-4'			020

Date: 9/16/22 10:30  
 Relinquished by: [Signature]  
 Date: 9/16/22 1900  
 Relinquished by: [Signature]



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**  
 www.hallenvironmental.com  
 4901 Hawkins NE - Albuquerque, NM 87109  
 Tel. 505-345-3975 Fax 505-345-4107

**Analysis Request**

<input checked="" type="checkbox"/> BTEX / MTBE / TMBs (8021)	<input checked="" type="checkbox"/> TPH:8015D(GRO / DRO / MRO)	<input type="checkbox"/> 8081 Pesticides/8082 PCBs	<input type="checkbox"/> EDB (Method 504.1)	<input type="checkbox"/> PAHs by 8310 or 8270SIMS	<input type="checkbox"/> RCRA 8 Metals	<input checked="" type="checkbox"/> Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	<input type="checkbox"/> 8260 (VOA)	<input type="checkbox"/> 8270 (Semi-VOA)	<input type="checkbox"/> Total Coliform (Present/Absent)
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Remarks: Direct bill Devon  
w/o #: 21012037 cc: M. Peppin

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 149131

**CONDITIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 149131
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jharimon	None	12/28/2022