

1RP-5756 Cobber 21 Federal #1 Supporting Documentation – Spill Calculators

Spill Volume(Bbls) Calculator		
<i>Inputs in blue, Outputs in red</i>		
Contaminated Soil measurement		
Length(Ft)	Width(Ft)	Depth(Ft)
<u>100</u>	<u>14.000</u>	<u>0.083</u>
Cubic Feet of Soil Impacted		<u>116.200</u>
Barrels of Soil Impacted		<u>20.71</u>
Soil Type		<u>Clay</u>
Barrels of Oil Assuming 100% Saturation		<u>2.07</u>
Saturation	Fluid present with shovel/backhoe	
Estimated Barrels of Oil Released		<u>2.07</u>
Free Standing Fluid Only		
Length(Ft)	Width(Ft)	Depth(Ft)
<u>100</u>	<u>14.000</u>	<u>0.063</u>
Standing fluid		<u>15.687</u>
Total fluids spilled		<u>17.758</u>

Spill Volume(Bbls) Calculator		
<i>Inputs in blue, Outputs in red</i>		
Contaminated Soil measurement		
Length(Ft)	Width(Ft)	Depth(Ft)
<u>600</u>	<u>1.000</u>	<u>0.063</u>
Cubic Feet of Soil Impacted		<u>37.800</u>
Barrels of Soil Impacted		<u>6.74</u>
Soil Type		<u>Clay</u>
Barrels of Oil Assuming 100% Saturation		<u>0.67</u>
Saturation	Fluid present with shovel/backhoe	
Estimated Barrels of Oil Released		<u>0.67</u>
Free Standing Fluid Only		
Length(Ft)	Width(Ft)	Depth(Ft)
<u>600</u>	<u>1.000</u>	<u>0.042</u>
Standing fluid		<u>4.482</u>
Total fluids spilled		<u>5.156</u>

Spill Volume(Bbls) Calculator		
<i>Inputs in blue, Outputs in red</i>		
Contaminated Soil measurement		
Length(Ft)	Width(Ft)	Depth(Ft)
<u>230</u>	<u>12.000</u>	<u>0.083</u>
Cubic Feet of Soil Impacted		<u>229.080</u>
Barrels of Soil Impacted		<u>40.83</u>
Soil Type		<u>Clay</u>
Barrels of Oil Assuming 100% Saturation		<u>4.08</u>
Saturation	Fluid present with shovel/backhoe	
Estimated Barrels of Oil Released		<u>4.08</u>
Free Standing Fluid Only		
Length(Ft)	Width(Ft)	Depth(Ft)
<u>230</u>	<u>12.000</u>	<u>0.063</u>
Standing fluid		<u>30.926</u>
Total fluids spilled		<u>35.009</u>



September 25, 2024

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

**Re: Closure Request
Cobber 21 Federal #1H
Incident Number NRM1929152027
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Devon Energy Production Company, LP (Devon), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities at the Cobber 21 Federal #1H (Site). The Site is located in Unit P, Section 21, Township 26 South, Range 34 East, in Lea County, New Mexico (32.02181°, -103.46841°) and is associated with oil and gas exploration and production operations on land managed by the Bureau of Land Management (BLM).

The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of crude oil and produced water. Based on field observations, field screening activities, and soil sampling laboratory analytical results, Devon is submitting this *Closure Request*, describing Site assessment, excavation, and delineation activities that have occurred and requesting no further action for Incident Number NRM1929152027.

BACKGROUND

On October 10, 2019, a leak at the wellhead resulted in the release of approximately 10 barrels (bbls) of crude oil and approximately 50 bbls of produced water onto the caliche pad; 10 bbls of crude oil and 40 bbls of produced water were recovered. Devon reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on October 17, 2019. The release was subsequently assigned Incident Number NRM1929152027.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on the initial C-141 application subsection, Site Characterization. Potential Site receptors are identified on Figure 1.

The closest permitted groundwater well with depth to groundwater data is a New Mexico Office of the State Engineer (NMOSE) well, C-04836 POD1, which is located on the southwest corner of the Site. The Boring (BH01) was completed by John Scarborough Drilling, Inc. on June 5, 2024, in order to establish depth to water within a 1/2-mile radius of the Site. The well was drilled to a total depth of 105 feet below ground surface (bgs). The boring was allowed to equilibrate for at least 72 hours to allow for

potentially slow in-filling groundwater to collect. Following the waiting period, groundwater was not encountered, and it has been determined that groundwater is greater than 105 feet bgs. All wells used for depth to groundwater determination are presented in Figure 1. The referenced well log and record is included in Appendix A. There are no regional or Site-specific hydrogeological conditions, such as shallow surface water, known karst features, wetlands, or vegetation to suggest the Site is conducive to shallower groundwater. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 0.91 miles northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

SITE ASSESSMENT AND DELINEATION SOIL SAMPLING ACTIVITIES

On February 26 and 27, 2024, Ensolum personnel were onsite to evaluate the release extent and to conduct delineation soil sampling activities. Three potholes (PH01 through PH03) were advanced to assess the vertical extent of impacted soil to depths of 6 feet, 8 feet, and 5 feet bgs, respectively. Discrete delineation soil samples were collected from each borehole at every foot and field screened for chloride utilizing Hach® chloride QuanTab® test strips. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix B. Three preliminary assessment soil samples (SS02 through SS04) were collected from around the release at ground surface to verify the lateral extent. Ensolum personnel returned to the Site on March 28, 2024, to collect two additional lateral delineation soil samples, SS01 and SS05, at ground surface. All preliminary assessment soil samples were field screened for chloride in the same manner previously described. The delineation soil sample locations are depicted on Figure 2 and a photographic log is included in Appendix C.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice and transported under strict chain-of-custody procedures to Envirotech Analysis Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

Beginning on September 4, 2024, Centrex Oilfield Services completed a surface scrape of the subject matter release in order to remove visible surface staining and any gross impacts from the release. Excavation activities were performed using a backhoe and hand tools. To direct excavation activities, Ensolum personnel field screened soil samples in the same manner as previously described.

Following the removal of impacted and waste-containing soil, Ensolum personnel collected 5-point composite soil samples representing at least 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples (FS01 through FS55) were collected from the floor of the excavation at depths ranging from ground surface to 0.5 feet bgs. Due to the shallow nature of the excavation, sidewall soil was incorporated into the floor confirmation samples. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The final excavation extent measured approximately 10,949 square feet. A total of approximately 340 cubic yards of impacted and waste-containing soil was removed during the excavation activities. The soil was transported and properly disposed of at the Northern Delaware Basin Landfill Facility in Jal, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for potholes (PH01 through PH03) were in compliance with the strictest Closure Criteria at 6 feet, 8 feet, and 5 feet bgs, respectively, and potholes PH02 and PH03 were in compliance with the Site Closure Criteria at ground surface. Laboratory analytical results for lateral delineation soil samples (SS02 through SS04), collected at ground surface, indicated all COC concentrations were compliant with Site Closure Criteria and with the strictest Closure Criteria per NMOCD Table I. Laboratory analytical results for lateral delineation soil samples (SS01 and SS05) indicated that COC concentrations were in compliance with the strictest Closure Criteria at ground surface.

Laboratory analytical results for excavation floor soil samples (FS01 through FS55) indicated all COC concentrations were in compliance with the Site Closure Criteria at depths ranging from ground surface to 0.5 feet bgs. Laboratory analytical results are summarized in Tables 1 through 3 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

The release extent has been laterally defined by delineation soil samples (SS01 through SS05), collected at ground surface, and vertically defined by potholes (PH01 through PH03) collected at 6 feet, 8 feet, and 5 feet bgs. Excavation of impacted and waste-containing soil has been completed, and excavation floor samples (FS01 through FS55), collected at depths ranging from ground surface to 0.5 feet bgs, were all in compliance with the Site Closure Criteria.

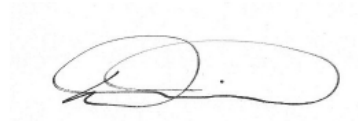
Based on the remedial actions completed to date and a depth to groundwater greater than 105 feet bgs, Devon believes these remedial actions are protective of human health, the environment, and groundwater and as such, respectfully requests closure for Incident Number NRM1929152027.

If you have any questions or comments, please contact Ms. Ashley Giovengo at (575) 988-0055 or agiovengo@ensolum.com.

Sincerely,
Ensolum, LLC



Ashley Giovengo
Senior Scientist



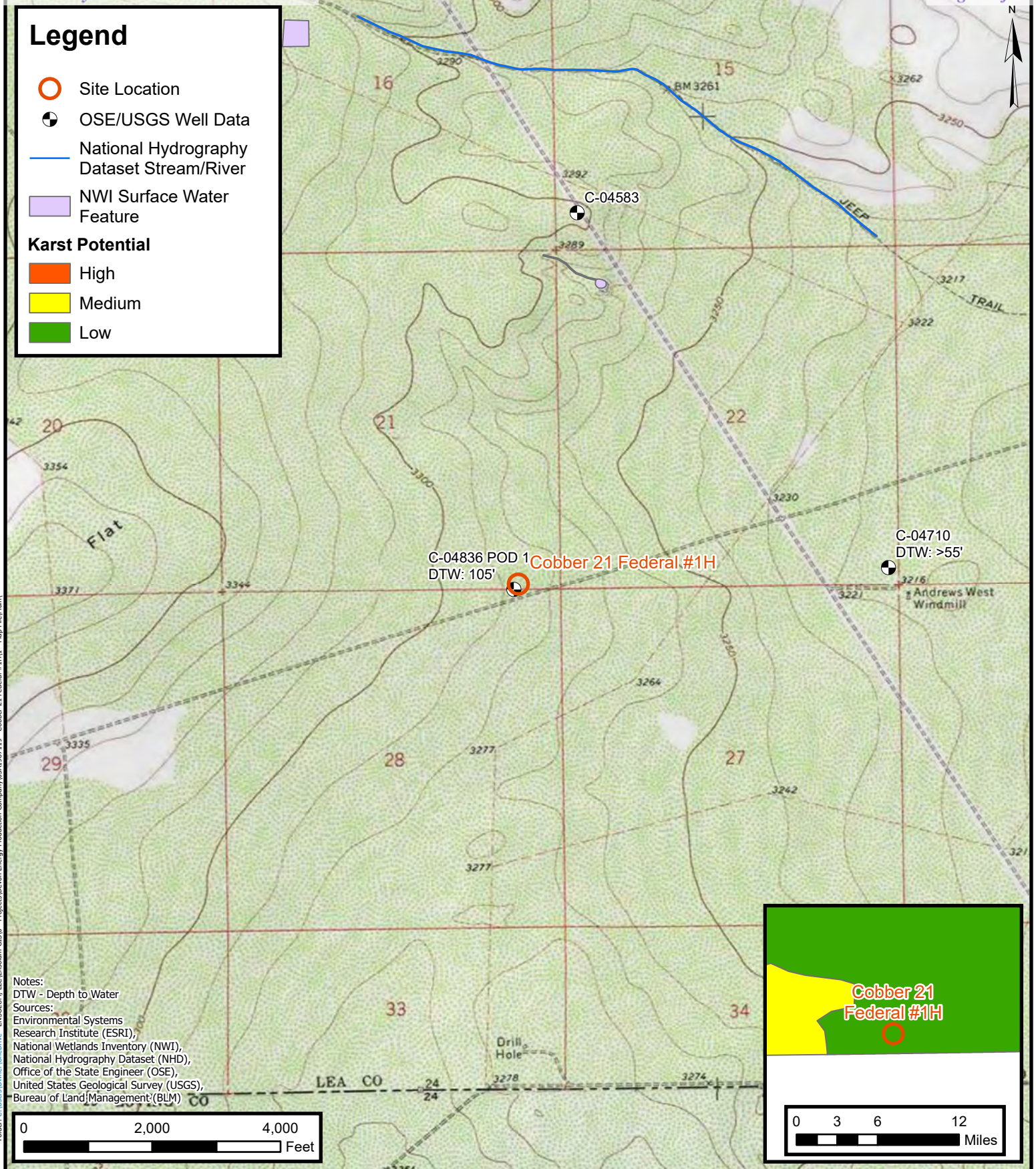
Daniel R. Moir, PG (licensed in WY & TX)
Senior Managing Geologist

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results (Delineation Soil Samples)
Table 2	Soil Sample Analytical Results (Excavation Soil Samples)
Table 3	Soil Sample Analytical Results (Sidewall Soil Samples)
Appendix A	Well Log and Record
Appendix B	Lithologic Soil Sampling Logs
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Correspondence



FIGURES



Site Receptor Map
Devon Energy Production Company
Cobber 21 Federal #1H
Incident Number: NRM1929152027
Unit P, Section 21, T 26S, R 34E
Lea County, New Mexico

FIGURE
1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- ▨ Release Extent

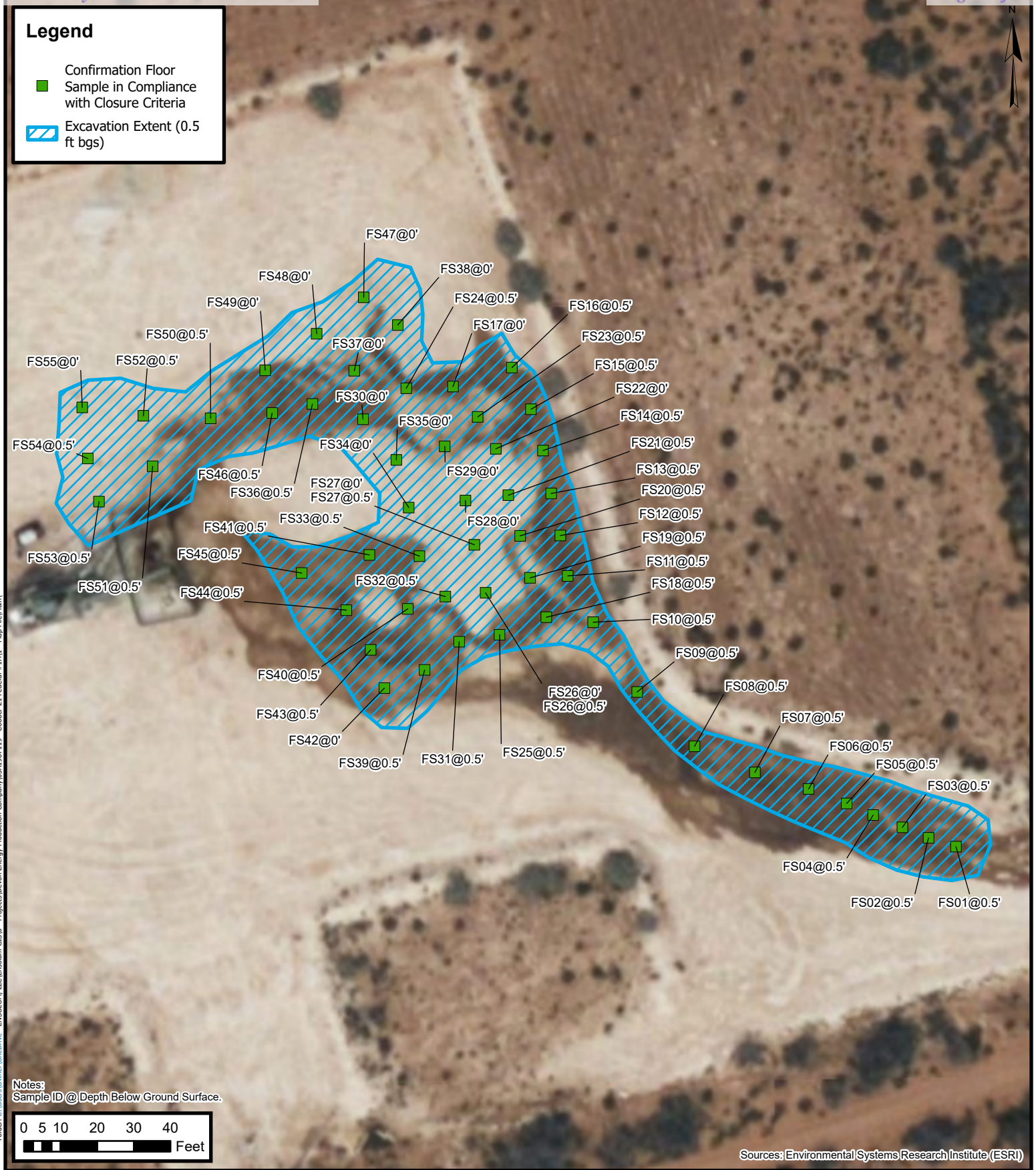
Folder: C:\Users\Owner\OneDrive - ENSOLUM, LLC\Ensolium GIS\0 - Projects\Devon Energy Production Company\0341987119 - Cobber 21 Federal #1H1 - Map File\Main



Delineation Soil Sample Locations

Devon Energy Production Company
Cobber 21 Federal #1H
Incident Number: NRM1929152027
Unit P, Section 21, T 26S, R 34E
Lea County, New Mexico

FIGURE
2



Confirmation Soil Sample Locations

Devon Energy Production Company
Cobber 21 Federal #1H
Incident Number: NRM1929152027
Unit P, Section 21, T 26S, R 34E
Lea County, New Mexico

FIGURE

3



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Cobber 21 Federal #1H
 Devon Energy Production Company, LP
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	3/28/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	344
SS02	2/27/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	84.2
SS03	2/27/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	31.1
SS04	2/27/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	89.7
SS05	3/28/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	133
PH01	2/26/2024	0	<0.0250	<0.0500	<20.0	8,390	4,290	8,390	12,680	7,460
PH01	2/26/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	77.3
PH02	2/26/2024	0	<0.0250	<0.0500	<20.0	195	178	198	373	16,600
PH02	2/26/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	424
PH03	2/26/2024	0	<0.0250	<0.0500	<20.0	646	663	646	1,309	10,300
PH03	2/26/2024	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	69.3

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<: Laboratory Analytical result is less than reporting limit

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

* Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
 Cobber 21 Federal #1H
 Devon Energy Production Company, LP
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Confirmation Soil Samples										
FS01	9/5/2024	0.5	<0.0250	<0.0500	<20.0	55.4	<50.0	55.4	55	315
FS02	9/6/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	323
FS03	9/6/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	330
FS04	9/6/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	229
FS05	9/6/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	456
FS06	9/6/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	446
FS07	9/6/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	478
FS08	9/6/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	330
FS09	9/6/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	553
FS10	9/6/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	148
FS11	9/6/2024	0.5	<0.0250	<0.0500	<20.0	37.1	<50.0	37.1	37	1,550
FS12	9/6/2024	0.5	<0.0250	<0.0500	<20.0	267	121	267	388	786
FS13	9/6/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	325
FS14	9/6/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	248
FS15	9/6/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	342
FS16	9/6/2024	0.5	<0.0250	<0.0500	<20.0	66.1	<50.0	66.1	66.1	278
FS17	9/5/2024	0	<0.0250	<0.0500	<20.0	43.8	<50.0	43.8	44	51
FS18	9/6/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	196
FS19	9/6/2024	0.5	<0.0250	<0.0500	<20.0	34.8	<50.0	34.8	34.8	1,060
FS20	9/6/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,190
FS21	9/6/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	366

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<": Laboratory Analytical result is less than reporting limit

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

* Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Cobber 21 Federal #1H
 Devon Energy Production Company, LP
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Confirmation Soil Samples										
FS22	9/5/2024	0	<0.0250	<0.0500	<20.0	83.7	50	83.7	134	287
FS23	9/6/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	23
FS24	9/6/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	22.0
FS25	9/6/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	229
FS26	9/5/2024	0	<0.0250	<0.0500	<20.0	212	82.4	212	294.4	625
FS26	9/6/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	139
FS27	9/5/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	351
FS27	9/6/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	370
FS28	9/5/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	189
FS29	9/5/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,200
FS30	9/5/2024	0	<0.0250	<0.0500	<20.0	93.3	<50.0	93.3	93.3	5,140
FS31	9/6/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	376
FS32	9/6/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	305
FS33	9/6/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	537
FS34	9/5/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	379
FS35	9/5/2024	0	<0.0250	<0.0500	<20.0	85.6	<50.0	85.6	85.6	1,690
FS36	9/5/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,570
FS37	9/5/2024	0	<0.0250	<0.0500	<20.0	144	71.0	144	215	3,240
FS38	9/5/2024	0	<0.0250	<0.0500	<20.0	63.4	<50.0	63.4	63.4	376
FS39	9/6/2024	0.5	<0.0250	<0.0500	<20.0	63.3	<50.0	63.3	63.3	1,130
FS40	9/6/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	319

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<": Laboratory Analytical result is less than reporting limit

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

* Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Cobber 21 Federal #1H
 Devon Energy Production Company, LP
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Confirmation Soil Samples										
FS41	9/6/2024	0.5	<0.0250	<0.0500	<20.0	30.1	<50.0	30.1	30.1	404
FS42	9/5/2024	0	<0.0250	<0.0500	<20.0	83.0	<50.0	83.0	83.0	3,820
FS43	9/6/2024	0.5	<0.0250	<0.0500	<20.0	151	<50.0	151	151	527
FS44	9/6/2024	0.5	<0.0250	<0.0500	<20.0	30.4	<50.0	30.4	30.4	616
FS45	9/6/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	655
FS46	9/5/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,280
FS47	9/5/2024	0	<0.0250	<0.0500	<20.0	104	<50.0	104	104	1,050
FS48	9/5/2024	0	<0.0250	<0.0500	<20.0	137	<50.0	137	137	7,380
FS49	9/5/2024	0	<0.0250	<0.0500	<20.0	43.9	<50.0	43.9	43.9	2,100
FS50	9/5/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,400
FS51	9/6/2024	0.5	<0.0250	<0.0500	<20.0	237	82.8	237	319.8	1,600
FS52	9/5/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,830
FS53	9/5/2024	0.5	<0.0250	<0.0500	<20.0	124	71.5	124	195.5	1,710
FS54	9/5/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,250
FS55	9/5/2024	0	<0.0250	<0.0500	<20.0	154	182	154	336	760

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<": Laboratory Analytical result is less than reporting limit

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

* Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



APPENDIX A

Well Log and Record



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1		WELL TAG ID NO. N/A		OSE FILE NO(S) C-04836 POD 1		
	WELL OWNER NAME(S) Devon Energy Production Company				PHONE (OPTIONAL) 575-748-1838		
	WELL OWNER MAILING ADDRESS 205 E. Bender Road #150				CITY Hobbs	STATE NM	ZIP 88240
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 01	SECONDS 17.7 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
		LONGITUDE 103	28	07.1 W			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Unit P, Section 21, Township 26S, Range 34E, Lea County, New Mexico							
2. DRILLING & CASING INFORMATION	LICENSE NO. WD1188		NAME OF LICENSED DRILLER John Scarborough			NAME OF WELL DRILLING COMPANY John Scarborough Drilling Inc.	
	DRILLING STARTED 06/05/2024	DRILLING ENDED 06/05/2024	DEPTH OF COMPLETED WELL (FT) 105	BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) N/A		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:						
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)
	0 105		5.00	Soil Boring	-	-	-
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT	
				N/A			

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	10	10	Sand with gravel, light brown, fine to coarse with caliche gravel	Y ✓ N	
	10	20	10	Sand, with gravel brown to tan, fine to coarse with caliche gravel	Y ✓ N	
	20	30	10	Sand with gravel, brown to tan, fine to coarse with caliche gravel	Y ✓ N	
	30	40	10	Sand, brown to tan, fine to coarse with trace caliche gravel	Y ✓ N	
	40	50	10	Sand, brown to tan, fine to coarse with trace caliche gravel	Y ✓ N	
	50	60	10	Sand, brown to tan, fine to coarse with tracecaliche gravel	Y ✓ N	
	60	70	10	Sand, brown to tan, fine to coarse with trace caliche gravel	Y ✓ N	
	70	80	10	Sand, brown to tan, fine to coarse with some caliche gravel	Y ✓ N	
	80	90	10	Sand with clay, brown sand red clay, fine to very fine	Y ✓ N	
	90	100	10	Sand with clay, brown sand red clay, fine to very fine	Y ✓ N	
	100	105	5	Sand with clay, brown sand red clay, fine to very fine	Y ✓ N	
	105	105	0	Sand with clay, brown sand red clay, fine to very fine	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to 10 ft below ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface.	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Scott Scarborough	


6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. Scott Scarborough <small>Digitally signed by Scott Scarborough Date: 2024.06.26 07:01:08 -06'00'</small>	DATE _____
SIGNATURE OF DRILLER / PRINT SIGNEE NAME _____		


FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.		PAGE 2 OF 2




APPENDIX B

Lithologic Soil Sampling Logs

								Sample Name: PH01		Date: 2/26/24	
								Site Name: Cobber 21 Fed 1H			
								Incident Number: NRM1929152027			
								Job Number: 03A1987119			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Israel Estrella		Method: Backhoe	
Coordinates: 32.0219596, -103.4684428								Hole Diameter: 2'		Total Depth: 7 Feet	
Comments: Field screening conducted with HACH Chloride Test Strips and a PetroFLAG® Soil Analyzer System for chloride and TPH respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	3,472		V	PH01	0	0	SP-SM	Red silty sand, light staining.			
D	2,788		N	PH01	1	1	SP-SM	Dark sand silt, no staining.			
D	2,424		N	PH01	2	2	SP-SM	Dark sand silt, no staining.			
D	1,271		N	PH01	3	3	CCHE	Light color, no staining.			
D	1,108		N	PH01	4	4	CCHE	Light color, no staining.			
D	700		N	PH01	5	5	CCHE	Light color, no staining.			
D	ND	24	N	PH01	6	6	CCHE	Light color, no staining.			
D	ND		N	PH01	7	7	CCHE	Light color, no staining.			
Total Depth @ 7' bgs											

								Sample Name: PH02		Date: 2/26/24	
								Site Name: Cobber 21 Fed 1H			
								Incident Number: NRM1929152027			
								Job Number: 03A1987119			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Israel Estrella		Method: Backhoe	
Coordinates: 32.0220042, -103.4682406								Hole Diameter: 2'		Total Depth: 9 Feet	
Comments: Field screening conducted with HACH Chloride Test Strips and a PetroFLAG® Soil Analyzer System for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	3,472		Y	PH02	0	0	SP-SM	Sand silt, light staining.			
D	2,788		N	PH02	1	1	SP-SM	Dark sand silt, no staining.			
D	2,604		N	PH02	2	2	SP-SM	Dark sand silt, no staining.			
D	3,472		N	PH02	3	3	CCHE	Caliche, no staining.			
D	2,604		N	PH02	4	4	CCHE	Caliche, no staining.			
D	700		N	PH02	5	5	CCHE	Caliche, no staining.			
D	464		N	PH02	6	6	CCHE	Caliche, no staining.			
D	846		N	PH02	7	7	CCHE	Caliche, no staining.			
D	319	54	N	PH02	8	8	CCHE	Caliche, no staining.			
D	464		N	PH02	9	9	CCHE	Caliche, no staining.			
Total Depth @ 9' bgs											

								Sample Name: PH03		Date: 2/26/24	
LITHOLOGIC / SOIL SAMPLING LOG								Site Name: Cobber 21 Fed 1H			
								Incident Number: NRM1929152027			
								Job Number: 03A1987119			
Coordinates: 32.021817, -103.468175								Logged By: Israel Estrella		Method: Backhoe	
								Hole Diameter: 2'		Total Depth: 5 Feet	
Comments: Field screening conducted with HACH Chloride Test Strips and a PetroFLAG® Soil Analyzer System for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	3,472		Y	PH02	0	0	CCHE	Caliche, light staining.			
D	2,604		N	PH02	1	1	SP-SM	Dark sand silt, no staining.			
D	2,788		N	PH02	2	2	SP-SM	Dark sand silt, no staining.			
D	2,604		N	PH02	3	3	SP-SM	Dark sand silt, no staining.			
D	319		N	PH02	4	4	CCHE	Caliche, light staining.			
D	ND	27	N	PH02	5	5	CCHE	Caliche, light staining.			
Total Depth @ 5' bgs											



APPENDIX C

Photographic Log

**Photographic Log**

Devon Energy Production Company, LP
Cobber 21 Fed #1H
NRM1929152027



Photograph 1

Date: 10/15/2019

Description: Release Extent

View: Southwest



Photograph 2

Date: 10/15/2019

Description: Release Extent

View: North



Photograph 3

Date: 10/15/2019

Description: Release Extent

View: Northwest



Photograph 4

Date: 10/15/2019

Description: Release Extent

View: East



Photographic Log

Devon Energy Production Company, LP

Cobber 21 Fed #1H

NRM1929152027

S 180 210 240 270 300 NW
 247°SW (T) LAT: 32.021567 LON: -103.467616 ±13ft ▲ 3288ft



Lease sign
Ensolum, LLC

Cobber 21Fed 1H
26 Feb 2024, 09:58:43

Photograph 5

Date: 02/26/2024

Description: Site Signage

View: Southwest

E 90 120 150 180 210 S
 150°SE (T) LAT: 0.000000 LON: 0.000000 ▲ 0ft



PH01
Ensolum, LLC

Cobber 21Fed 1H
26 Feb 2024, 13:49:31

Photograph 6

Date: 02/26/2024

Description: Potholing (PH01)

View: Southeast

E 90 120 150 180 210 SE S
 151°SE (T) LAT: 32.032349 LON: -103.471120 ±16420ft ▲ 0ft



PH02
Ensolum, LLC

Cobber 21Fed 1H
26 Feb 2024, 14:08:11

Photograph 7

Date: 02/26/2024

Description: Potholing (PH02)

View: Southeast

SW 210 240 270 300 330 NW
 272°W (T) LAT: 32.058990 LON: -103.392465 ±39314ft ▲ 0ft



PH03
Ensolum, LLC

Cobber 21Fed 1H
26 Feb 2024, 13:13:02

Photograph 8

Date: 02/26/2024

Description: Potholing (PH03)

View: West



Photographic Log

Devon Energy Production Company, LP

Cobber 21 Fed #1H

NRM1929152027



Photograph 9 Date: 02/27/2024

Description: Lateral Delineation Soil Sampling

View: Southeast



Photograph 10 Date: 02/27/2024

Description: Lateral Delineation Soil Sampling

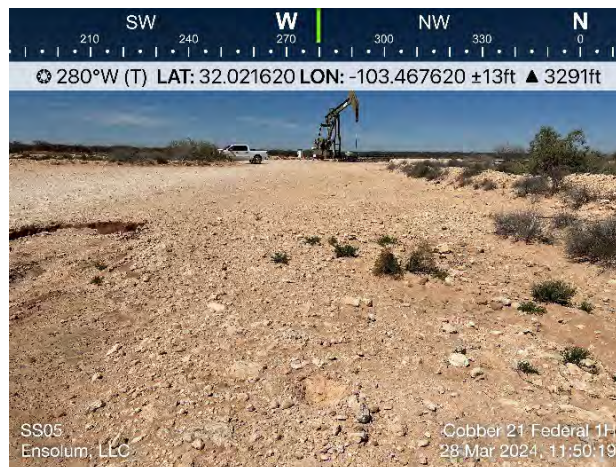
View: Southeast



Photograph 11 Date: 03/28/2024

Description: Lateral Delineation Soil Sampling

View: East



Photograph 12 Date: 03/28/2024

Description: Lateral Delineation Soil Sampling

View: West



Photographic Log

Devon Energy Production Company, LP
Cobber 21 Fed #1H
NRM1929152027



Photograph 13 Date: 06/05/2024
Description: DTW Boring (BH01)
View: East



Photograph 14 Date: 06/05/2024
Description: DTW Boring (BH01)
View: West



Photograph 15 Date: 06/10/2024
Description: DTW Measurement
View: North



Photograph 16 Date: 06/10/2024
Description: DTW Measurement
View: Southeast

**Photographic Log**

Devon Energy Production Company, LP

Cobber 21 Fed #1H

NRM1929152027



Photograph 17

Date: 09/04/2024

Description: Excavation Activities

View: East



Photograph 18

Date: 09/04/2024

Description: Excavation Activities

View: Northeast



Photograph 19

Date: 09/04/2024

Description: Excavation Activities

View: Southeast



Photograph 20

Date: 09/04/2024

Description: Excavation Activities

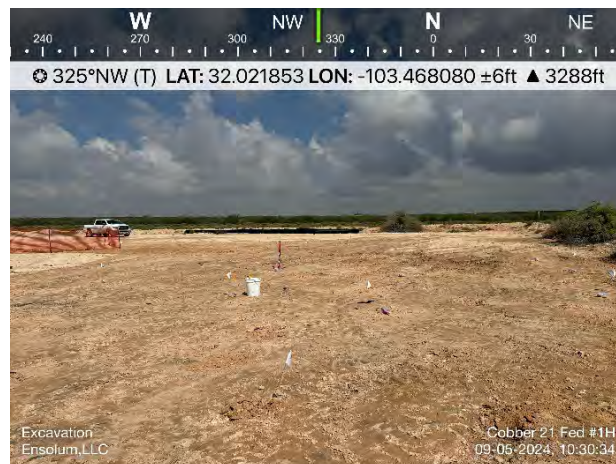
View: North

**Photographic Log**

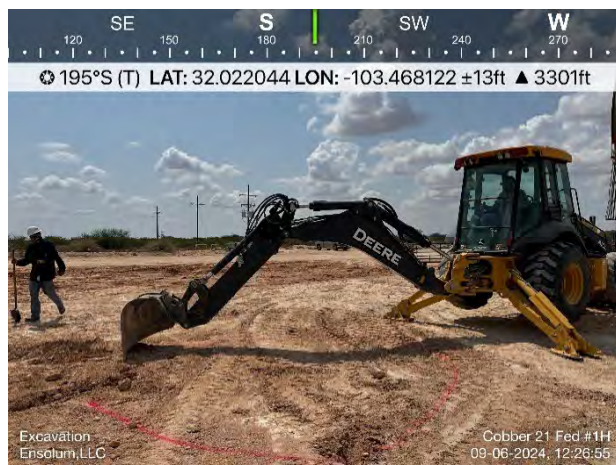
Devon Energy Production Company, LP
Cobber 21 Fed #1H
NRM1929152027



Photograph 21
Date: 09/05/2024
Description: Excavation Activities
View: Northeast



Photograph 22
Date: 09/05/2024
Description: Excavation Activities
View: Northwest



Photograph 23
Date: 09/06/2024
Description: Excavation Activities
View: South



Photograph 24
Date: 09/06/2024
Description: Excavation Activities
View: West



APPENDIX D

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Cobber 21 Fed 1H

Work Order: E402254

Job Number: 01058-0007

Received: 2/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 3/5/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: Cobber 21 Fed 1H
Workorder: E402254
Date Received: 2/28/2024 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 6:00:00AM, under the Project Name: Cobber 21 Fed 1H.

The analytical test results summarized in this report with the Project Name: Cobber 21 Fed 1H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH01 -0'	5
PH01 -6'	6
PH02 -0'	7
PH02 -8'	8
PH03 -0'	9
PH03 -5'	10
QC Summary Data	11
QC - Volatile Organic Compounds by EPA 8260B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

Devon Energy - Carlsbad	Project Name:	Cobber 21 Fed 1H	Reported: 03/05/24 14:35
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 -0'	E402254-01A	Soil	02/26/24	02/28/24	Glass Jar, 2 oz.
PH01 -6'	E402254-02A	Soil	02/26/24	02/28/24	Glass Jar, 2 oz.
PH02 -0'	E402254-03A	Soil	02/26/24	02/28/24	Glass Jar, 2 oz.
PH02 -8'	E402254-04A	Soil	02/26/24	02/28/24	Glass Jar, 2 oz.
PH03 -0'	E402254-05A	Soil	02/26/24	02/28/24	Glass Jar, 2 oz.
PH03 -5'	E402254-06A	Soil	02/26/24	02/28/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Fed 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 3/5/2024 2:35:30PM
-------------------------------------------------------------------	--------------------------------------------------------------------------------------------------	---------------------------------

PH01 -0'

E402254-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS		Batch: 2409046	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
Surrogate: Bromofluorobenzene	107 %	70-130		02/28/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130		02/28/24	03/01/24	
Surrogate: Toluene-d8	108 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2409046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
Surrogate: Bromofluorobenzene	107 %	70-130		02/28/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130		02/28/24	03/01/24	
Surrogate: Toluene-d8	108 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2409065	
Diesel Range Organics (C10-C28)	8390	50.0	2	02/29/24	02/29/24	
Oil Range Organics (C28-C36)	4290	100	2	02/29/24	02/29/24	
Surrogate: n-Nonane	108 %	50-200		02/29/24	02/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2409059	
Chloride	7460	100	5	02/28/24	02/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Fed 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 3/5/2024 2:35:30PM
-------------------------------------------------------------------	--------------------------------------------------------------------------------------------------	---------------------------------

PH01 -6'

E402254-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
Surrogate: Bromofluorobenzene		108 %	70-130	02/28/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		93.1 %	70-130	02/28/24	03/01/24	
Surrogate: Toluene-d8		107 %	70-130	02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
Surrogate: Bromofluorobenzene		108 %	70-130	02/28/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		93.1 %	70-130	02/28/24	03/01/24	
Surrogate: Toluene-d8		107 %	70-130	02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409065
Diesel Range Organics (C10-C28)	ND	25.0	1	02/29/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/29/24	03/01/24	
Surrogate: n-Nonane		110 %	50-200	02/29/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2409059
Chloride	77.3	20.0	1	02/28/24	02/29/24	



Sample Data

Devon Energy - Carlsbad	Project Name:	Cobber 21 Fed 1H	Reported: 3/5/2024 2:35:30PM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

PH02 -0'

E402254-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: RAS		Batch: 2409046
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
Surrogate: Bromofluorobenzene		110 %	70-130	02/28/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	02/28/24	03/01/24	
Surrogate: Toluene-d8		107 %	70-130	02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RAS		Batch: 2409046
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
Surrogate: Bromofluorobenzene		110 %	70-130	02/28/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	02/28/24	03/01/24	
Surrogate: Toluene-d8		107 %	70-130	02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KM		Batch: 2409065
Diesel Range Organics (C10-C28)	195	25.0	1	02/29/24	02/29/24	
Oil Range Organics (C28-C36)	178	50.0	1	02/29/24	02/29/24	
Surrogate: n-Nonane		103 %	50-200	02/29/24	02/29/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: IY		Batch: 2409059
Chloride	16600	400	20	02/28/24	02/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Fed 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 3/5/2024 2:35:30PM
-------------------------------------------------------------------	--------------------------------------------------------------------------------------------------	---------------------------------

PH02 -8'

E402254-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
Surrogate: Bromofluorobenzene		109 %	70-130	02/28/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		91.9 %	70-130	02/28/24	03/01/24	
Surrogate: Toluene-d8		107 %	70-130	02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
Surrogate: Bromofluorobenzene		109 %	70-130	02/28/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		91.9 %	70-130	02/28/24	03/01/24	
Surrogate: Toluene-d8		107 %	70-130	02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409065
Diesel Range Organics (C10-C28)	ND	25.0	1	02/29/24	02/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/29/24	02/29/24	
Surrogate: n-Nonane		107 %	50-200	02/29/24	02/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2409059
Chloride	424	20.0	1	02/28/24	02/29/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Cobber 21 Fed 1H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
3/5/2024 2:35:30PM

PH03 -0'

E402254-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
Surrogate: Bromofluorobenzene		110 %	70-130	02/28/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		92.2 %	70-130	02/28/24	03/01/24	
Surrogate: Toluene-d8		106 %	70-130	02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
Surrogate: Bromofluorobenzene		110 %	70-130	02/28/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		92.2 %	70-130	02/28/24	03/01/24	
Surrogate: Toluene-d8		106 %	70-130	02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409065
Diesel Range Organics (C10-C28)	646	25.0	1	02/29/24	02/29/24	
Oil Range Organics (C28-C36)	663	50.0	1	02/29/24	02/29/24	
Surrogate: n-Nonane		112 %	50-200	02/29/24	02/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2409059
Chloride	10300	200	10	02/28/24	02/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Fed 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 3/5/2024 2:35:30PM
-------------------------------------------------------------------	--------------------------------------------------------------------------------------------------	---------------------------------

PH03 -5'

E402254-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2409046	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
Surrogate: Bromofluorobenzene		111 %	70-130	02/28/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	02/28/24	03/01/24	
Surrogate: Toluene-d8		106 %	70-130	02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2409046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
Surrogate: Bromofluorobenzene		111 %	70-130	02/28/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	02/28/24	03/01/24	
Surrogate: Toluene-d8		106 %	70-130	02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409065	
Diesel Range Organics (C10-C28)	25.1	25.0	1	02/29/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/29/24	03/01/24	
Surrogate: n-Nonane		104 %	50-200	02/29/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2409059	
Chloride	69.3	20.0	1	02/28/24	02/29/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Cobber 21 Fed 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/5/2024 2:35:30PM

Volatile Organic Compounds by EPA 8260B

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2409046-BLK1) Prepared: 02/28/24 Analyzed: 03/02/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.556		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

LCS (2409046-BS1) Prepared: 02/28/24 Analyzed: 03/02/24

Benzene	2.60	0.0250	2.50		104	70-130			
Ethylbenzene	2.65	0.0250	2.50		106	70-130			
Toluene	2.54	0.0250	2.50		101	70-130			
o-Xylene	2.62	0.0250	2.50		105	70-130			
p,m-Xylene	5.19	0.0500	5.00		104	70-130			
Total Xylenes	7.81	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.567		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.465		0.500		93.0	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

Matrix Spike (2409046-MS1) Source: E402252-42 Prepared: 02/28/24 Analyzed: 03/02/24

Benzene	2.66	0.0250	2.50	ND	106	48-131			
Ethylbenzene	2.73	0.0250	2.50	ND	109	45-135			
Toluene	2.61	0.0250	2.50	ND	104	48-130			
o-Xylene	2.67	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.35	0.0500	5.00	ND	107	43-135			
Total Xylenes	8.02	0.0250	7.50	ND	107	43-135			
Surrogate: Bromofluorobenzene	0.554		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

Matrix Spike Dup (2409046-MSD1) Source: E402252-42 Prepared: 02/28/24 Analyzed: 03/04/24

Benzene	2.58	0.0250	2.50	ND	103	48-131	2.98	23	
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135	7.07	27	
Toluene	2.53	0.0250	2.50	ND	101	48-130	3.03	24	
o-Xylene	2.63	0.0250	2.50	ND	105	43-135	1.56	27	
p,m-Xylene	5.23	0.0500	5.00	ND	104	43-135	2.31	27	
Total Xylenes	7.86	0.0250	7.50	ND	105	43-135	2.06	27	
Surrogate: Bromofluorobenzene	0.571		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.463		0.500		92.6	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Cobber 21 Fed 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/5/2024 2:35:30PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2409046-BLK1) Prepared: 02/28/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.556		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

LCS (2409046-BS2) Prepared: 02/28/24 Analyzed: 03/04/24

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.569		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			

Matrix Spike (2409046-MS2) Source: E402252-42 Prepared: 02/28/24 Analyzed: 03/04/24

Gasoline Range Organics (C6-C10)	52.5	20.0	50.0	ND	105	70-130			
Surrogate: Bromofluorobenzene	0.570		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.7	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2409046-MSD2) Source: E402252-42 Prepared: 02/28/24 Analyzed: 03/05/24

Gasoline Range Organics (C6-C10)	54.7	20.0	50.0	ND	109	70-130	4.16	20	
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			
Surrogate: Toluene-d8	0.574		0.500		115	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Cobber 21 Fed 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/5/2024 2:35:30PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2409065-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.8		50.0		108	50-200			

LCS (2409065-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Diesel Range Organics (C10-C28)	285	25.0	250		114	38-132			
Surrogate: n-Nonane	56.3		50.0		113	50-200			

Matrix Spike (2409065-MS1)					Source: E402254-01		Prepared: 02/29/24 Analyzed: 02/29/24		
Diesel Range Organics (C10-C28)	8770	50.0	250	8390	153	38-132			M4
Surrogate: n-Nonane	50.7		50.0		101	50-200			

Matrix Spike Dup (2409065-MSD1)					Source: E402254-01		Prepared: 02/29/24 Analyzed: 02/29/24		
Diesel Range Organics (C10-C28)	8390	50.0	250	8390	2.83	38-132	4.36	20	M4
Surrogate: n-Nonane	54.2		50.0		108	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Cobber 21 Fed 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/5/2024 2:35:30PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2409059-BLK1)					Prepared: 02/28/24 Analyzed: 02/28/24				
Chloride	ND	20.0							
LCS (2409059-BS1)					Prepared: 02/28/24 Analyzed: 02/28/24				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2409059-MS1)					Source: E402253-01		Prepared: 02/28/24 Analyzed: 02/29/24		
Chloride	255	40.0	250	ND	102	80-120			
Matrix Spike Dup (2409059-MSD1)					Source: E402253-01		Prepared: 02/28/24 Analyzed: 02/29/24		
Chloride	257	40.0	250	ND	103	80-120	0.796	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Devon Energy - Carlsbad	Project Name:	Cobber 21 Fed 1H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	03/05/24 14:35

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project Information

Chain of Custody

Page 1 of 1

Client: Devon	Bill To	Lab Use Only	TAT	EPA Program
Project: Cobber 21 Fed 1H	Attention: Dale Woodall	Lab WO#	1D 2D 3D Standard	CWA SDWA
Project Manager: Ashley Giovengo	Address: 205 E Bender Road #150	E 402254		
Address: 3122 National Parks Hwy	City, State, Zip: Hobbs NM, 88240	Job Number	X	RCRA
City, State, Zip: Carlsbad NM, 88220	Phone: (575)748-1838	Analysis and Method		
Phone: 575-988-0055	Email: dale.woodall@dvn.com			
Email: agiovengo@ensolum.com				
Report due by:				

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	NM	TX	GDOC	Remarks
10:40	12/26/2024	Soil	1	PH01 - 0'	1							X			
13:08	12/26/2024	Soil	1	PH01 - 6'	2							X			
10:48	12/26/2024	Soil	1	PH02 - 0'	3							X			
13:54	12/26/2024	Soil	1	PH02 - 8'	4							X			
10:52	12/26/2024	Soil	1	PH03 - 0'	5							X			
12:03	12/26/2024	Soil	1	PH03 - 5'	6							X			

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dvn.com, chamilton@ensolum.com, iestrella@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Israel Estrella

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
	02/27/24	8:30		2-27-24	0830	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3
	2-27-24	1628		2-27-24	1730	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C
	2-27-24	2400		2-28-24	0600	4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above sample is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



envirotech

Envirotech Analytical Laboratory

Printed: 2/28/2024 10:37:47AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Devon Energy - Carlsbad	Date Received:	02/28/24 06:00	Work Order ID:	E402254
Phone:	(505) 382-1211	Date Logged In:	02/27/24 16:37	Logged In By:	Alexa Michaels
Email:	ashley.giovento@wescominc.com	Due Date:	03/05/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client InstructionComments/Resolution

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Cobber 21 Fed 1H

Work Order: E402286

Job Number: 01058-0007

Received: 2/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/6/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 3/6/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: Cobber 21 Fed 1H
Workorder: E402286
Date Received: 2/29/2024 5:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/29/2024 5:30:00AM, under the Project Name: Cobber 21 Fed 1H.

The analytical test results summarized in this report with the Project Name: Cobber 21 Fed 1H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SS03-0'	5
SS04-0'	6
SS02-0'	7
QC Summary Data	8
QC - Volatile Organics by EPA 8021B	8
QC - Nonhalogenated Organics by EPA 8015D - GRO	9
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	10
QC - Anions by EPA 300.0/9056A	11
Definitions and Notes	12
Chain of Custody etc.	13

Sample Summary

Devon Energy - Carlsbad	Project Name:	Cobber 21 Fed 1H	Reported: 03/06/24 16:00
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS03-0'	E402286-01A	Soil	02/27/24	02/29/24	Glass Jar, 2 oz.
SS04-0'	E402286-02A	Soil	02/27/24	02/29/24	Glass Jar, 2 oz.
SS02-0'	E402286-03A	Soil	02/27/24	02/29/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Fed 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 3/6/2024 4:00:22PM
-------------------------------------------------------------------	--------------------------------------------------------------------------------------------------	---------------------------------

SS03-0'

E402286-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409060
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
Surrogate: 4-Bromochlorobenzene-PID	91.0 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409060
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.2 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2410042
Diesel Range Organics (C10-C28)	ND	25.0	1	03/05/24	03/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/05/24	03/06/24	
Surrogate: n-Nonane	116 %	50-200		03/05/24	03/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2409061
Chloride	31.1	20.0	1	02/29/24	02/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Fed 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 3/6/2024 4:00:22PM
-------------------------------------------------------------------	--------------------------------------------------------------------------------------------------	---------------------------------

SS04-0'

E402286-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2409060	
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
Surrogate: 4-Bromochlorobenzene-PID	91.1 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2409060	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.8 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410042	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/05/24	03/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/05/24	03/06/24	
Surrogate: n-Nonane	116 %	50-200		03/05/24	03/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2409061	
Chloride	89.7	20.0	1	02/29/24	02/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Fed 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 3/6/2024 4:00:22PM
-------------------------------------------------------------------	--------------------------------------------------------------------------------------------------	---------------------------------

SS02-0'

E402286-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2409060	
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
Surrogate: 4-Bromochlorobenzene-PID	90.8 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2409060	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.3 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410042	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/05/24	03/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/05/24	03/06/24	
Surrogate: n-Nonane	113 %	50-200		03/05/24	03/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2409061	
Chloride	84.2	20.0	1	02/29/24	02/29/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Cobber 21 Fed 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/6/2024 4:00:22PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2409060-BLK1) Prepared: 02/29/24 Analyzed: 02/29/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.14		8.00		89.2	70-130			

LCS (2409060-BS1) Prepared: 02/29/24 Analyzed: 02/29/24

Benzene	3.92	0.0250	5.00		78.4	70-130			
Ethylbenzene	3.97	0.0250	5.00		79.4	70-130			
Toluene	3.94	0.0250	5.00		78.9	70-130			
o-Xylene	3.91	0.0250	5.00		78.2	70-130			
p,m-Xylene	8.03	0.0500	10.0		80.3	70-130			
Total Xylenes	11.9	0.0250	15.0		79.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.25		8.00		90.6	70-130			

Matrix Spike (2409060-MS1) Source: E402281-02 Prepared: 02/29/24 Analyzed: 02/29/24

Benzene	4.19	0.0250	5.00	ND	83.8	54-133			
Ethylbenzene	4.26	0.0250	5.00	ND	85.2	61-133			
Toluene	4.23	0.0250	5.00	ND	84.6	61-130			
o-Xylene	4.20	0.0250	5.00	ND	83.9	63-131			
p,m-Xylene	8.61	0.0500	10.0	ND	86.1	63-131			
Total Xylenes	12.8	0.0250	15.0	ND	85.4	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.40		8.00		92.4	70-130			

Matrix Spike Dup (2409060-MSD1) Source: E402281-02 Prepared: 02/29/24 Analyzed: 02/29/24

Benzene	4.77	0.0250	5.00	ND	95.3	54-133	12.9	20	
Ethylbenzene	4.85	0.0250	5.00	ND	96.9	61-133	12.9	20	
Toluene	4.82	0.0250	5.00	ND	96.3	61-130	12.9	20	
o-Xylene	4.80	0.0250	5.00	ND	96.0	63-131	13.5	20	
p,m-Xylene	9.78	0.0500	10.0	ND	97.8	63-131	12.7	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131	13.0	20	
Surrogate: 4-Bromochlorobenzene-PID	7.43		8.00		92.8	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Cobber 21 Fed 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/6/2024 4:00:22PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2409060-BLK1) Prepared: 02/29/24 Analyzed: 02/29/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.95		8.00		99.3	70-130			

LCS (2409060-BS2) Prepared: 02/29/24 Analyzed: 02/29/24

Gasoline Range Organics (C6-C10)	48.5	20.0	50.0		96.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.9	70-130			

Matrix Spike (2409060-MS2) Source: E402281-02 Prepared: 02/29/24 Analyzed: 02/29/24

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.88		8.00		98.5	70-130			

Matrix Spike Dup (2409060-MSD2) Source: E402281-02 Prepared: 02/29/24 Analyzed: 02/29/24

Gasoline Range Organics (C6-C10)	55.8	20.0	50.0	ND	112	70-130	10.8	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.84		8.00		97.9	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Cobber 21 Fed 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/6/2024 4:00:22PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2410042-BLK1)					Prepared: 03/05/24 Analyzed: 03/06/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.0		50.0		112	50-200			

LCS (2410042-BS1)					Prepared: 03/05/24 Analyzed: 03/06/24				
Diesel Range Organics (C10-C28)	328	25.0	250		131	38-132			
Surrogate: n-Nonane	56.0		50.0		112	50-200			

Matrix Spike (2410042-MS1)					Source: E402288-21		Prepared: 03/05/24 Analyzed: 03/06/24		
Diesel Range Organics (C10-C28)	328	25.0	250	ND	131	38-132			
Surrogate: n-Nonane	57.7		50.0		115	50-200			

Matrix Spike Dup (2410042-MSD1)					Source: E402288-21		Prepared: 03/05/24 Analyzed: 03/06/24		
Diesel Range Organics (C10-C28)	315	25.0	250	ND	126	38-132	4.03	20	
Surrogate: n-Nonane	53.8		50.0		108	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Cobber 21 Fed 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/6/2024 4:00:22PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2409061-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409061-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	249	20.0	250		99.4	90-110			
Matrix Spike (2409061-MS1)					Source: E402277-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1680	100	250	1370	120	80-120			
Matrix Spike Dup (2409061-MSD1)					Source: E402277-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	2070	100	250	1370	280	80-120	21.2	20	M4, R3

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Devon Energy - Carlsbad	Project Name:	Cobber 21 Fed 1H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	03/06/24 16:00

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project Information

Chain of Custody

Page 1 of 1

[illegible]

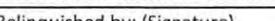
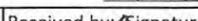

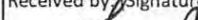


Additional Instructions: Please CC: cburton@ensolum.com, agiovento@ensolum.com, dale.woodall@dv.com, chamilton@ensolum.com, jestrella@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Israel Estrella

Sampled by: Israel Estrella

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) 	Date 2/28/24	Time 8:45 am	Received by: (Signature) 	Date 2-28-24	Time 1050	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) 	Date 2-28-24	Time 1710	Received by: (Signature) 	Date 2-28	Time 1749	
Relinquished by: (Signature) 	Date 2-29	Time 2405	Received by: (Signature) 	Date 2-29-24	Time 0530	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA						

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above sample is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Envirotech Analytical Laboratory

Printed: 2/29/2024 10:05:30AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Devon Energy - Carlsbad
 Phone: (505) 382-1211
 Email: ashley.giovengo@wescominc.com

Date Received: 02/29/24 05:30
 Date Logged In: 02/28/24 16:11
 Due Date: 03/06/24 17:00 (4 day TAT)

Work Order ID: E402286
 Logged In By: Alexa Michaels

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client InstructionComments/Resolution

Signature of client authorizing changes to the COC or sample disposition.

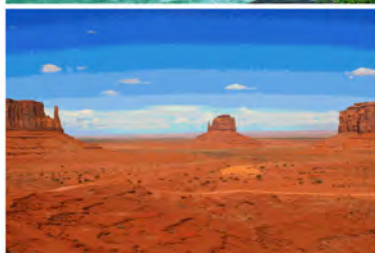
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Cobber 21 Fed 1H

Work Order: E403280

Job Number: 01058-0007

Received: 3/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/4/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 4/4/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: Cobber 21 Fed 1H
Workorder: E403280
Date Received: 3/29/2024 7:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/29/2024 7:15:00AM, under the Project Name: Cobber 21 Fed 1H.

The analytical test results summarized in this report with the Project Name: Cobber 21 Fed 1H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SS01 -0'	5
SS05 -0'	6
QC Summary Data	7
QC - Volatile Organic Compounds by EPA 8260B	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	8
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	9
QC - Anions by EPA 300.0/9056A	10
Definitions and Notes	11
Chain of Custody etc.	12

Sample Summary

Devon Energy - Carlsbad	Project Name:	Cobber 21 Fed 1H	Reported: 04/04/24 09:26
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 -0'	E403280-01A	Soil	03/28/24	03/29/24	Glass Jar, 2 oz.
SS05 -0'	E403280-02A	Soil	03/28/24	03/29/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Fed 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/4/2024 9:26:21AM
-------------------------------------------------------------------	--------------------------------------------------------------------------------------------------	---------------------------------

SS01 -0'

E403280-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2413121	
Benzene	ND	0.0250	1	03/29/24	03/29/24	
Ethylbenzene	ND	0.0250	1	03/29/24	03/29/24	
Toluene	ND	0.0250	1	03/29/24	03/29/24	
o-Xylene	ND	0.0250	1	03/29/24	03/29/24	
p,m-Xylene	ND	0.0500	1	03/29/24	03/29/24	
Total Xylenes	ND	0.0250	1	03/29/24	03/29/24	
Surrogate: Bromofluorobenzene		104 %	70-130	03/29/24	03/29/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	03/29/24	03/29/24	
Surrogate: Toluene-d8		103 %	70-130	03/29/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2413121	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/24	03/29/24	
Surrogate: Bromofluorobenzene		104 %	70-130	03/29/24	03/29/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	03/29/24	03/29/24	
Surrogate: Toluene-d8		103 %	70-130	03/29/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414003	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/24	04/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/24	04/02/24	
Surrogate: n-Nonane		72.0 %	50-200	04/01/24	04/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2413122	
Chloride	344	20.0	1	03/29/24	03/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Fed 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/4/2024 9:26:21AM
-------------------------------------------------------------------	--------------------------------------------------------------------------------------------------	---------------------------------

SS05 -0'

E403280-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413121
Benzene	ND	0.0250	1	03/29/24	03/30/24	
Ethylbenzene	ND	0.0250	1	03/29/24	03/30/24	
Toluene	ND	0.0250	1	03/29/24	03/30/24	
o-Xylene	ND	0.0250	1	03/29/24	03/30/24	
p,m-Xylene	ND	0.0500	1	03/29/24	03/30/24	
Total Xylenes	ND	0.0250	1	03/29/24	03/30/24	
Surrogate: Bromofluorobenzene		103 %	70-130	03/29/24	03/30/24	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	03/29/24	03/30/24	
Surrogate: Toluene-d8		103 %	70-130	03/29/24	03/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413121
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/24	03/30/24	
Surrogate: Bromofluorobenzene		103 %	70-130	03/29/24	03/30/24	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	03/29/24	03/30/24	
Surrogate: Toluene-d8		103 %	70-130	03/29/24	03/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2414003
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/24	04/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/24	04/02/24	
Surrogate: n-Nonane		75.9 %	50-200	04/01/24	04/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2413122
Chloride	133	20.0	1	03/29/24	03/29/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Cobber 21 Fed 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/4/2024 9:26:21AM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2413121-BLK1) Prepared: 03/29/24 Analyzed: 03/29/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.545		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.537		0.500		107	70-130			

LCS (2413121-BS1) Prepared: 03/29/24 Analyzed: 03/29/24

Benzene	2.47	0.0250	2.50		98.9	70-130			
Ethylbenzene	2.53	0.0250	2.50		101	70-130			
Toluene	2.41	0.0250	2.50		96.3	70-130			
o-Xylene	2.43	0.0250	2.50		97.3	70-130			
p,m-Xylene	4.82	0.0500	5.00		96.4	70-130			
Total Xylenes	7.25	0.0250	7.50		96.7	70-130			
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.3	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

Matrix Spike (2413121-MS1) Source: E403280-01 Prepared: 03/29/24 Analyzed: 03/29/24

Benzene	2.43	0.0250	2.50	ND	97.2	48-131			
Ethylbenzene	2.48	0.0250	2.50	ND	99.1	45-135			
Toluene	2.36	0.0250	2.50	ND	94.6	48-130			
o-Xylene	2.40	0.0250	2.50	ND	95.8	43-135			
p,m-Xylene	4.74	0.0500	5.00	ND	94.8	43-135			
Total Xylenes	7.14	0.0250	7.50	ND	95.2	43-135			
Surrogate: Bromofluorobenzene	0.497		0.500		99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			

Matrix Spike Dup (2413121-MSD1) Source: E403280-01 Prepared: 03/29/24 Analyzed: 03/29/24

Benzene	2.40	0.0250	2.50	ND	96.1	48-131	1.18	23	
Ethylbenzene	2.55	0.0250	2.50	ND	102	45-135	2.83	27	
Toluene	2.43	0.0250	2.50	ND	97.0	48-130	2.57	24	
o-Xylene	2.54	0.0250	2.50	ND	102	43-135	5.99	27	
p,m-Xylene	5.08	0.0500	5.00	ND	102	43-135	6.80	27	
Total Xylenes	7.62	0.0250	7.50	ND	102	43-135	6.53	27	
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Cobber 21 Fed 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/4/2024 9:26:21AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2413121-BLK1) Prepared: 03/29/24 Analyzed: 03/29/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.545		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.537		0.500		107	70-130			

LCS (2413121-BS2) Prepared: 03/29/24 Analyzed: 03/29/24

Gasoline Range Organics (C6-C10)	56.8	20.0	50.0		114	70-130			
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

Matrix Spike (2413121-MS2) Source: E403280-01 Prepared: 03/29/24 Analyzed: 03/29/24

Gasoline Range Organics (C6-C10)	53.0	20.0	50.0	ND	106	70-130			
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

Matrix Spike Dup (2413121-MSD2) Source: E403280-01 Prepared: 03/29/24 Analyzed: 03/29/24

Gasoline Range Organics (C6-C10)	54.2	20.0	50.0	ND	108	70-130	2.23	20	
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Cobber 21 Fed 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/4/2024 9:26:21AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2414003-BLK1)					Prepared: 04/01/24 Analyzed: 04/02/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	37.2		50.0		74.3	50-200			

LCS (2414003-BS1)					Prepared: 04/01/24 Analyzed: 04/02/24				
Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
Surrogate: n-Nonane	38.6		50.0		77.2	50-200			

Matrix Spike (2414003-MS1)					Source: E403262-04		Prepared: 04/01/24 Analyzed: 04/02/24		
Diesel Range Organics (C10-C28)	3090	500	250	2710	149	38-132			M4
Surrogate: n-Nonane	36.0		50.0		72.1	50-200			

Matrix Spike Dup (2414003-MSD1)					Source: E403262-04		Prepared: 04/01/24 Analyzed: 04/02/24		
Diesel Range Organics (C10-C28)	3010	500	250	2710	120	38-132	2.37	20	
Surrogate: n-Nonane	35.2		50.0		70.4	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Cobber 21 Fed 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/4/2024 9:26:21AM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2413122-BLK1)					Prepared: 03/29/24 Analyzed: 03/29/24				
Chloride	ND	20.0							
LCS (2413122-BS1)					Prepared: 03/29/24 Analyzed: 03/29/24				
Chloride	249	20.0	250		99.7	90-110			
Matrix Spike (2413122-MS1)					Source: E403275-05		Prepared: 03/29/24 Analyzed: 03/29/24		
Chloride	371	20.0	250	88.8	113	80-120			
Matrix Spike Dup (2413122-MSD1)					Source: E403275-05		Prepared: 03/29/24 Analyzed: 03/29/24		
Chloride	370	20.0	250	88.8	112	80-120	0.300	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Devon Energy - Carlsbad	Project Name:	Cobber 21 Fed 1H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/04/24 09:26

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client: Devon		Bill To	Lab Use Only						TAT				EPA Program						
Project: Cobber 21 Federal 1H		Attention: Dale Woodall	Lab WO#			Job Number			1D	2D	3D	Standard		CWA	SDWA				
Project Manager: Ashley Giovengo		Address: 205 E Bender Road #150	E403280			D1058-007						x							
Address: 3122 National Parks Hwy		City, State, Zip: Hobbs NM, 88240	Analysis and Method										RCRA						
City, State, Zip: Carlsbad NM, 88220		Phone: (575)748-1838	S/DRO/ORO by	8021	8260	8010	300.0			NM		TX		State					
Phone: 575-988-0055		Email: dale.woodall@dvn.com												NM	CO	UT	AZ	TX	
Email: agiovengo@ensolum.com																			
Report due by:																			

[illegible]

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dvn.com, chamilton@ensolum.com, iestrella@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Israel Estrella

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <i>[Signature]</i>	Date 3/28/24	Time 11:20	Received by: (Signature) <i>[Signature]</i>	Date 3-28-24	Time 1436	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature) <i>[Signature]</i>	Date 3.28.24	Time 1915	
Relinquished by: (Signature) <i>[Signature]</i>	Date 3.28.24	Time 2400	Received by: (Signature) <i>[Signature]</i>	Date 3/29/24	Time 0715	T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above sample is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Envirotech Analytical Laboratory

Printed: 4/1/2024 1:03:34PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Devon Energy - Carlsbad
 Phone: (505) 382-1211
 Email: ashley.giovengo@wescominc.com

Date Received: 03/29/24 07:15
 Date Logged In: 03/29/24 08:55
 Due Date: 04/04/24 17:00 (4 day TAT)

Work Order ID: E403280
 Logged In By: Angelina Pineda

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Carrier: Courier

Note: Analysis, such as pH which should be conducted in the field.
 i.e. 15 minute hold time, are not included in this discussion.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 Sample ID? Yes
 Date/Time Collected? Yes
 Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client InstructionComments/Resolution

Signature of client authorizing changes to the COC or sample disposition.

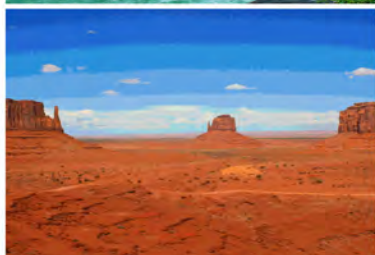
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Cobber 21 Federal #001H

Work Order: E409059

Job Number: 01058-0007

Received: 9/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/13/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/13/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: Cobber 21 Federal #001H
Workorder: E409059
Date Received: 9/7/2024 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/7/2024 7:30:00AM, under the Project Name: Cobber 21 Federal #001H.

The analytical test results summarized in this report with the Project Name: Cobber 21 Federal #001H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
FS46 - 0.5'	6
FS42 - 0'	7
FS36 - 0.5'	8
FS35 - 0'	9
FS34 - 0'	10
FS30 - 0'	11
FS29 - 0'	12
FS28 - 0'	13
FS27 - 0'	14
FS26 - 0'	15
FS55 - 0'	16
FS49 - 0'	17
FS48 - 0'	18
FS47 - 0'	19
FS38 - 0'	20
FS37 - 0'	21
FS50 - 0.5'	22
FS53 - 0.5'	23
FS54 - 0.5'	24
FS52 - 0.5'	25

Table of Contents (continued)

FS22 - 0'	26
FS17 - 0'	27
FS01 - 0.5'	28
QC Summary Data	29
QC - Volatile Organics by EPA 8021B	29
QC - Nonhalogenated Organics by EPA 8015D - GRO	31
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	33
QC - Anions by EPA 300.0/9056A	35
Definitions and Notes	37
Chain of Custody etc.	38

Sample Summary

Devon Energy - Carlsbad	Project Name:	Cobber 21 Federal #001H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	09/13/24 13:12

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS46 - 0.5'	E409059-01A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
FS42 - 0'	E409059-02A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
FS36 - 0.5'	E409059-03A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
FS35 - 0'	E409059-04A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
FS34 - 0'	E409059-05A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
FS30 - 0'	E409059-06A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
FS29 - 0'	E409059-07A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
FS28 - 0'	E409059-08A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
FS27 - 0'	E409059-09A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
FS26 - 0'	E409059-10A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
FS55 - 0'	E409059-11A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
FS49 - 0'	E409059-12A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
FS48 - 0'	E409059-13A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
FS47 - 0'	E409059-14A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
FS38 - 0'	E409059-15A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
FS37 - 0'	E409059-16A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
FS50 - 0.5'	E409059-17A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
FS53 - 0.5'	E409059-18A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
FS54 - 0.5'	E409059-19A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
FS52 - 0.5'	E409059-20A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
FS22 - 0'	E409059-21A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
FS17 - 0'	E409059-22A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
FS01 - 0.5'	E409059-23A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.

Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/13/2024 1:12:46PM
-------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	----------------------------------

FS46 - 0.5'

E409059-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Benzene	ND	0.0250	1	09/09/24	09/10/24	
Ethylbenzene	ND	0.0250	1	09/09/24	09/10/24	
Toluene	ND	0.0250	1	09/09/24	09/10/24	
o-Xylene	ND	0.0250	1	09/09/24	09/10/24	
p,m-Xylene	ND	0.0500	1	09/09/24	09/10/24	
Total Xylenes	ND	0.0250	1	09/09/24	09/10/24	
Surrogate: 4-Bromochlorobenzene-PID	89.6 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/24	09/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.4 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2437008	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/09/24	09/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/09/24	09/11/24	
Surrogate: n-Nonane	73.1 %	50-200		09/09/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2437016	
Chloride	1280	20.0	1	09/09/24	09/09/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/13/2024 1:12:46PM
-------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	----------------------------------

FS42 - 0'

E409059-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Benzene	ND	0.0250	1	09/09/24	09/10/24	
Ethylbenzene	ND	0.0250	1	09/09/24	09/10/24	
Toluene	ND	0.0250	1	09/09/24	09/10/24	
o-Xylene	ND	0.0250	1	09/09/24	09/10/24	
p,m-Xylene	ND	0.0500	1	09/09/24	09/10/24	
Total Xylenes	ND	0.0250	1	09/09/24	09/10/24	
Surrogate: 4-Bromochlorobenzene-PID	87.2 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/24	09/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.9 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2437008	
Diesel Range Organics (C10-C28)	83.0	25.0	1	09/09/24	09/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/09/24	09/11/24	
Surrogate: n-Nonane	68.0 %	50-200		09/09/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2437016	
Chloride	3820	40.0	2	09/09/24	09/09/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/13/2024 1:12:46PM
-------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	----------------------------------

FS36 - 0.5'
E409059-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Benzene	ND	0.0250	1	09/09/24	09/10/24	
Ethylbenzene	ND	0.0250	1	09/09/24	09/10/24	
Toluene	ND	0.0250	1	09/09/24	09/10/24	
o-Xylene	ND	0.0250	1	09/09/24	09/10/24	
p,m-Xylene	ND	0.0500	1	09/09/24	09/10/24	
Total Xylenes	ND	0.0250	1	09/09/24	09/10/24	
Surrogate: 4-Bromochlorobenzene-PID	90.5 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/24	09/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	99.0 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2437008	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/09/24	09/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/09/24	09/11/24	
Surrogate: n-Nonane	68.1 %	50-200		09/09/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2437016	
Chloride	1570	20.0	1	09/09/24	09/09/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/13/2024 1:12:46PM
-------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	----------------------------------

FS35 - 0'

E409059-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Benzene	ND	0.0250	1	09/09/24	09/10/24	
Ethylbenzene	ND	0.0250	1	09/09/24	09/10/24	
Toluene	ND	0.0250	1	09/09/24	09/10/24	
o-Xylene	ND	0.0250	1	09/09/24	09/10/24	
p,m-Xylene	ND	0.0500	1	09/09/24	09/10/24	
Total Xylenes	ND	0.0250	1	09/09/24	09/10/24	
Surrogate: 4-Bromochlorobenzene-PID	88.6 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/24	09/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.4 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2437008	
Diesel Range Organics (C10-C28)	85.6	25.0	1	09/09/24	09/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/09/24	09/11/24	
Surrogate: n-Nonane	70.2 %	50-200		09/09/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2437016	
Chloride	1690	40.0	2	09/09/24	09/10/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/13/2024 1:12:46PM
-------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	----------------------------------

FS34 - 0'

E409059-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Benzene	ND	0.0250	1	09/09/24	09/10/24	
Ethylbenzene	ND	0.0250	1	09/09/24	09/10/24	
Toluene	ND	0.0250	1	09/09/24	09/10/24	
o-Xylene	ND	0.0250	1	09/09/24	09/10/24	
p,m-Xylene	ND	0.0500	1	09/09/24	09/10/24	
Total Xylenes	ND	0.0250	1	09/09/24	09/10/24	
Surrogate: 4-Bromochlorobenzene-PID	88.6 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/24	09/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.5 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2437008	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/09/24	09/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/09/24	09/11/24	
Surrogate: n-Nonane	68.8 %	50-200		09/09/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2437016	
Chloride	379	20.0	1	09/09/24	09/10/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/13/2024 1:12:46PM
-------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	----------------------------------

FS30 - 0'

E409059-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Benzene	ND	0.0250	1	09/09/24	09/10/24	
Ethylbenzene	ND	0.0250	1	09/09/24	09/10/24	
Toluene	ND	0.0250	1	09/09/24	09/10/24	
o-Xylene	ND	0.0250	1	09/09/24	09/10/24	
p,m-Xylene	ND	0.0500	1	09/09/24	09/10/24	
Total Xylenes	ND	0.0250	1	09/09/24	09/10/24	
Surrogate: 4-Bromochlorobenzene-PID	87.7 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/24	09/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.4 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2437008	
Diesel Range Organics (C10-C28)	93.3	25.0	1	09/09/24	09/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/09/24	09/11/24	
Surrogate: n-Nonane	58.2 %	50-200		09/09/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2437016	
Chloride	5140	100	5	09/09/24	09/10/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/13/2024 1:12:46PM
-------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	----------------------------------

FS29 - 0'

E409059-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Benzene	ND	0.0250	1	09/09/24	09/10/24	
Ethylbenzene	ND	0.0250	1	09/09/24	09/10/24	
Toluene	ND	0.0250	1	09/09/24	09/10/24	
o-Xylene	ND	0.0250	1	09/09/24	09/10/24	
p,m-Xylene	ND	0.0500	1	09/09/24	09/10/24	
Total Xylenes	ND	0.0250	1	09/09/24	09/10/24	
Surrogate: 4-Bromochlorobenzene-PID	88.2 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/24	09/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	99.0 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2437008	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/09/24	09/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/09/24	09/11/24	
Surrogate: n-Nonane	66.5 %	50-200		09/09/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2437016	
Chloride	1200	20.0	1	09/09/24	09/09/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/13/2024 1:12:46PM
-------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	----------------------------------

FS28 - 0'

E409059-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Benzene	ND	0.0250	1	09/09/24	09/10/24	
Ethylbenzene	ND	0.0250	1	09/09/24	09/10/24	
Toluene	ND	0.0250	1	09/09/24	09/10/24	
o-Xylene	ND	0.0250	1	09/09/24	09/10/24	
p,m-Xylene	ND	0.0500	1	09/09/24	09/10/24	
Total Xylenes	ND	0.0250	1	09/09/24	09/10/24	
Surrogate: 4-Bromochlorobenzene-PID	87.3 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/24	09/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.1 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2437008	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/09/24	09/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/09/24	09/11/24	
Surrogate: n-Nonane	70.3 %	50-200		09/09/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2437016	
Chloride	189	20.0	1	09/09/24	09/10/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/13/2024 1:12:46PM
-------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	----------------------------------

FS27 - 0'

E409059-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Benzene	ND	0.0250	1	09/09/24	09/10/24	
Ethylbenzene	ND	0.0250	1	09/09/24	09/10/24	
Toluene	ND	0.0250	1	09/09/24	09/10/24	
o-Xylene	ND	0.0250	1	09/09/24	09/10/24	
p,m-Xylene	ND	0.0500	1	09/09/24	09/10/24	
Total Xylenes	ND	0.0250	1	09/09/24	09/10/24	
Surrogate: 4-Bromochlorobenzene-PID	88.2 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/24	09/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.0 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2437008	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/09/24	09/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/09/24	09/11/24	
Surrogate: n-Nonane	66.5 %	50-200		09/09/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2437016	
Chloride	351	20.0	1	09/09/24	09/10/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/13/2024 1:12:46PM
-------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	----------------------------------

FS26 - 0'

E409059-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Benzene	ND	0.0250	1	09/09/24	09/10/24	
Ethylbenzene	ND	0.0250	1	09/09/24	09/10/24	
Toluene	ND	0.0250	1	09/09/24	09/10/24	
o-Xylene	ND	0.0250	1	09/09/24	09/10/24	
p,m-Xylene	ND	0.0500	1	09/09/24	09/10/24	
Total Xylenes	ND	0.0250	1	09/09/24	09/10/24	
Surrogate: 4-Bromochlorobenzene-PID	89.7 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/24	09/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.7 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2437008	
Diesel Range Organics (C10-C28)	212	25.0	1	09/09/24	09/11/24	
Oil Range Organics (C28-C36)	82.4	50.0	1	09/09/24	09/11/24	
Surrogate: n-Nonane	74.7 %	50-200		09/09/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2437016	
Chloride	625	20.0	1	09/09/24	09/10/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/13/2024 1:12:46PM
-------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	----------------------------------

FS55 - 0'

E409059-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Benzene	ND	0.0250	1	09/09/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/09/24	09/11/24	
Toluene	ND	0.0250	1	09/09/24	09/11/24	
o-Xylene	ND	0.0250	1	09/09/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/09/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/09/24	09/11/24	
Surrogate: 4-Bromochlorobenzene-PID	87.9 %	70-130		09/09/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/24	09/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.7 %	70-130		09/09/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2437008	
Diesel Range Organics (C10-C28)	154	25.0	1	09/09/24	09/11/24	
Oil Range Organics (C28-C36)	182	50.0	1	09/09/24	09/11/24	
Surrogate: n-Nonane	69.9 %	50-200		09/09/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2437016	
Chloride	760	20.0	1	09/09/24	09/10/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/13/2024 1:12:46PM
-------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	----------------------------------

FS49 - 0'

E409059-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Benzene	ND	0.0250	1	09/09/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/09/24	09/11/24	
Toluene	ND	0.0250	1	09/09/24	09/11/24	
o-Xylene	ND	0.0250	1	09/09/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/09/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/09/24	09/11/24	
Surrogate: 4-Bromochlorobenzene-PID	88.0 %	70-130		09/09/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/24	09/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.2 %	70-130		09/09/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2437008	
Diesel Range Organics (C10-C28)	43.9	25.0	1	09/09/24	09/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/09/24	09/11/24	
Surrogate: n-Nonane	66.7 %	50-200		09/09/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2437016	
Chloride	2100	40.0	2	09/09/24	09/10/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/13/2024 1:12:46PM
-------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	----------------------------------

FS48 - 0'

E409059-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Benzene	ND	0.0250	1	09/09/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/09/24	09/11/24	
Toluene	ND	0.0250	1	09/09/24	09/11/24	
o-Xylene	ND	0.0250	1	09/09/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/09/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/09/24	09/11/24	
Surrogate: 4-Bromochlorobenzene-PID	88.3 %	70-130		09/09/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/24	09/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.9 %	70-130		09/09/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2437008	
Diesel Range Organics (C10-C28)	137	25.0	1	09/09/24	09/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/09/24	09/11/24	
Surrogate: n-Nonane	65.4 %	50-200		09/09/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2437016	
Chloride	7380	100	5	09/09/24	09/10/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/13/2024 1:12:46PM
-------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	----------------------------------

FS47 - 0'

E409059-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Benzene	ND	0.0250	1	09/09/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/09/24	09/11/24	
Toluene	ND	0.0250	1	09/09/24	09/11/24	
o-Xylene	ND	0.0250	1	09/09/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/09/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/09/24	09/11/24	
Surrogate: 4-Bromochlorobenzene-PID	89.5 %	70-130		09/09/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/24	09/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.9 %	70-130		09/09/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2437008	
Diesel Range Organics (C10-C28)	104	25.0	1	09/09/24	09/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/09/24	09/11/24	
Surrogate: n-Nonane	69.0 %	50-200		09/09/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2437016	
Chloride	1050	40.0	2	09/09/24	09/10/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/13/2024 1:12:46PM
-------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	----------------------------------

FS38 - 0'

E409059-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Benzene	ND	0.0250	1	09/09/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/09/24	09/11/24	
Toluene	ND	0.0250	1	09/09/24	09/11/24	
o-Xylene	ND	0.0250	1	09/09/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/09/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/09/24	09/11/24	
Surrogate: 4-Bromochlorobenzene-PID	88.6 %	70-130		09/09/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/24	09/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.0 %	70-130		09/09/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2437008	
Diesel Range Organics (C10-C28)	63.4	25.0	1	09/09/24	09/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/09/24	09/11/24	
Surrogate: n-Nonane	68.1 %	50-200		09/09/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2437016	
Chloride	376	20.0	1	09/09/24	09/10/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/13/2024 1:12:46PM
-------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	----------------------------------

FS37 - 0'

E409059-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Benzene	ND	0.0250	1	09/09/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/09/24	09/11/24	
Toluene	ND	0.0250	1	09/09/24	09/11/24	
o-Xylene	ND	0.0250	1	09/09/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/09/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/09/24	09/11/24	
Surrogate: 4-Bromochlorobenzene-PID	89.0 %	70-130		09/09/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/24	09/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.8 %	70-130		09/09/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2437008	
Diesel Range Organics (C10-C28)	144	25.0	1	09/09/24	09/11/24	
Oil Range Organics (C28-C36)	71.0	50.0	1	09/09/24	09/11/24	
Surrogate: n-Nonane	68.4 %	50-200		09/09/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2437016	
Chloride	3240	40.0	2	09/09/24	09/10/24	

Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/13/2024 1:12:46PM
-------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	----------------------------------

FS50 - 0.5'
E409059-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Benzene	ND	0.0250	1	09/09/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/09/24	09/11/24	
Toluene	ND	0.0250	1	09/09/24	09/11/24	
o-Xylene	ND	0.0250	1	09/09/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/09/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/09/24	09/11/24	
Surrogate: 4-Bromochlorobenzene-PID	89.6 %	70-130		09/09/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/24	09/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.9 %	70-130		09/09/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2437008	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/09/24	09/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/09/24	09/11/24	
Surrogate: n-Nonane	65.8 %	50-200		09/09/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2437016	
Chloride	1400	20.0	1	09/09/24	09/10/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/13/2024 1:12:46PM
-------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	----------------------------------

FS53 - 0.5'
E409059-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Benzene	ND	0.0250	1	09/09/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/09/24	09/11/24	
Toluene	ND	0.0250	1	09/09/24	09/11/24	
o-Xylene	ND	0.0250	1	09/09/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/09/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/09/24	09/11/24	
Surrogate: 4-Bromochlorobenzene-PID	90.4 %	70-130		09/09/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/24	09/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.2 %	70-130		09/09/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2437008	
Diesel Range Organics (C10-C28)	124	25.0	1	09/09/24	09/11/24	
Oil Range Organics (C28-C36)	71.5	50.0	1	09/09/24	09/11/24	
Surrogate: n-Nonane	68.2 %	50-200		09/09/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2437016	
Chloride	1710	40.0	2	09/09/24	09/10/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Cobber 21 Federal #001H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/13/2024 1:12:46PM

FS54 - 0.5'

E409059-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2437005
Benzene	ND	0.0250	1	09/09/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/09/24	09/11/24	
Toluene	ND	0.0250	1	09/09/24	09/11/24	
o-Xylene	ND	0.0250	1	09/09/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/09/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/09/24	09/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.7 %	70-130		09/09/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2437005
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/24	09/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.9 %	70-130		09/09/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2437008
Diesel Range Organics (C10-C28)	ND	25.0	1	09/09/24	09/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/09/24	09/11/24	
<i>Surrogate: n-Nonane</i>						
	62.8 %	50-200		09/09/24	09/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2437016
Chloride	1250	20.0	1	09/09/24	09/10/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/13/2024 1:12:46PM
-------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	----------------------------------

FS52 - 0.5'
E409059-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Benzene	ND	0.0250	1	09/09/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/09/24	09/11/24	
Toluene	ND	0.0250	1	09/09/24	09/11/24	
o-Xylene	ND	0.0250	1	09/09/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/09/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/09/24	09/11/24	
Surrogate: 4-Bromochlorobenzene-PID	87.5 %	70-130		09/09/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2437005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/24	09/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.3 %	70-130		09/09/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2437008	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/09/24	09/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/09/24	09/11/24	
Surrogate: n-Nonane	66.0 %	50-200		09/09/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2437016	
Chloride	1830	20.0	1	09/09/24	09/10/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Cobber 21 Federal #001H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/13/2024 1:12:46PM

FS22 - 0'

E409059-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2437004
Benzene	ND	0.0250	1	09/09/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/09/24	09/11/24	
Toluene	ND	0.0250	1	09/09/24	09/11/24	
o-Xylene	ND	0.0250	1	09/09/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/09/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/09/24	09/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	09/09/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2437004
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/24	09/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.6 %	70-130	09/09/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437007
Diesel Range Organics (C10-C28)	83.7	25.0	1	09/09/24	09/11/24	
Oil Range Organics (C28-C36)	50.2	50.0	1	09/09/24	09/11/24	
<i>Surrogate: n-Nonane</i>						
		73.3 %	50-200	09/09/24	09/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2437010
Chloride	287	20.0	1	09/09/24	09/09/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/13/2024 1:12:46PM
-------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	----------------------------------

FS17 - 0'

E409059-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2437004	
Benzene	ND	0.0250	1	09/09/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/09/24	09/11/24	
Toluene	ND	0.0250	1	09/09/24	09/11/24	
o-Xylene	ND	0.0250	1	09/09/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/09/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/09/24	09/11/24	
Surrogate: 4-Bromochlorobenzene-PID	100 %	70-130		09/09/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2437004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/24	09/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.5 %	70-130		09/09/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437007	
Diesel Range Organics (C10-C28)	43.8	25.0	1	09/09/24	09/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/09/24	09/11/24	
Surrogate: n-Nonane	68.6 %	50-200		09/09/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2437010	
Chloride	51.3	20.0	1	09/09/24	09/10/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/13/2024 1:12:46PM
-------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	----------------------------------

FS01 - 0.5'
E409059-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2437004	
Benzene	ND	0.0250	1	09/09/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/09/24	09/11/24	
Toluene	ND	0.0250	1	09/09/24	09/11/24	
o-Xylene	ND	0.0250	1	09/09/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/09/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/09/24	09/11/24	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		09/09/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2437004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/24	09/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.7 %	70-130		09/09/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437007	
Diesel Range Organics (C10-C28)	55.4	25.0	1	09/09/24	09/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/09/24	09/11/24	
Surrogate: n-Nonane	75.0 %	50-200		09/09/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2437010	
Chloride	315	20.0	1	09/09/24	09/10/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Cobber 21 Federal #001H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/13/2024 1:12:46PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437004-BLK1) Prepared: 09/09/24 Analyzed: 09/11/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.03		8.00		100	70-130			

LCS (2437004-BS1) Prepared: 09/09/24 Analyzed: 09/11/24

Benzene	5.43	0.0250	5.00		109	70-130			
Ethylbenzene	5.22	0.0250	5.00		104	70-130			
Toluene	5.34	0.0250	5.00		107	70-130			
o-Xylene	5.23	0.0250	5.00		105	70-130			
p,m-Xylene	10.6	0.0500	10.0		106	70-130			
Total Xylenes	15.8	0.0250	15.0		106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.05		8.00		101	70-130			

Matrix Spike (2437004-MS1) Source: E409057-06 Prepared: 09/09/24 Analyzed: 09/11/24

Benzene	5.34	0.0250	5.00	ND	107	54-133			
Ethylbenzene	5.11	0.0250	5.00	ND	102	61-133			
Toluene	5.24	0.0250	5.00	ND	105	61-130			
o-Xylene	5.12	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.32		8.00		104	70-130			

Matrix Spike Dup (2437004-MSD1) Source: E409057-06 Prepared: 09/09/24 Analyzed: 09/11/24

Benzene	5.40	0.0250	5.00	ND	108	54-133	1.11	20	
Ethylbenzene	5.17	0.0250	5.00	ND	103	61-133	1.22	20	
Toluene	5.30	0.0250	5.00	ND	106	61-130	1.16	20	
o-Xylene	5.18	0.0250	5.00	ND	104	63-131	1.24	20	
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131	1.16	20	
Total Xylenes	15.7	0.0250	15.0	ND	105	63-131	1.19	20	
Surrogate: 4-Bromochlorobenzene-PID	8.35		8.00		104	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Cobber 21 Federal #001H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/13/2024 1:12:46PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437005-BLK1) Prepared: 09/09/24 Analyzed: 09/10/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.08		8.00		88.6	70-130			

LCS (2437005-BS1) Prepared: 09/09/24 Analyzed: 09/10/24

Benzene	4.45	0.0250	5.00		89.1	70-130			
Ethylbenzene	4.26	0.0250	5.00		85.3	70-130			
Toluene	4.38	0.0250	5.00		87.5	70-130			
o-Xylene	4.24	0.0250	5.00		84.8	70-130			
p,m-Xylene	8.68	0.0500	10.0		86.8	70-130			
Total Xylenes	12.9	0.0250	15.0		86.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.04		8.00		88.0	70-130			

Matrix Spike (2437005-MS1) Source: E409059-10 Prepared: 09/09/24 Analyzed: 09/10/24

Benzene	4.21	0.0250	5.00	ND	84.3	54-133			
Ethylbenzene	4.02	0.0250	5.00	ND	80.4	61-133			
Toluene	4.13	0.0250	5.00	ND	82.5	61-130			
o-Xylene	3.99	0.0250	5.00	ND	79.9	63-131			
p,m-Xylene	8.18	0.0500	10.0	ND	81.8	63-131			
Total Xylenes	12.2	0.0250	15.0	ND	81.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.10		8.00		88.8	70-130			

Matrix Spike Dup (2437005-MSD1) Source: E409059-10 Prepared: 09/09/24 Analyzed: 09/10/24

Benzene	3.89	0.0250	5.00	ND	77.7	54-133	8.08	20	
Ethylbenzene	3.71	0.0250	5.00	ND	74.3	61-133	7.94	20	
Toluene	3.81	0.0250	5.00	ND	76.2	61-130	7.91	20	
o-Xylene	3.68	0.0250	5.00	ND	73.7	63-131	8.10	20	
p,m-Xylene	7.56	0.0500	10.0	ND	75.6	63-131	7.76	20	
Total Xylenes	11.2	0.0250	15.0	ND	75.0	63-131	7.87	20	
Surrogate: 4-Bromochlorobenzene-PID	7.10		8.00		88.8	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Cobber 21 Federal #001H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/13/2024 1:12:46PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437004-BLK1) Prepared: 09/09/24 Analyzed: 09/11/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.8	70-130			

LCS (2437004-BS2) Prepared: 09/09/24 Analyzed: 09/11/24

Gasoline Range Organics (C6-C10)	42.2	20.0	50.0		84.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.0	70-130			

Matrix Spike (2437004-MS2) Source: E409057-06 Prepared: 09/09/24 Analyzed: 09/11/24

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.8	70-130			

Matrix Spike Dup (2437004-MSD2) Source: E409057-06 Prepared: 09/09/24 Analyzed: 09/11/24

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0	ND	91.4	70-130	1.84	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.7	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Cobber 21 Federal #001H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/13/2024 1:12:46PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437005-BLK1) Prepared: 09/09/24 Analyzed: 09/10/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.90		8.00		98.7	70-130			

LCS (2437005-BS2) Prepared: 09/09/24 Analyzed: 09/10/24

Gasoline Range Organics (C6-C10)	37.0	20.0	50.0		74.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.8	70-130			

Matrix Spike (2437005-MS2) Source: E409059-10 Prepared: 09/09/24 Analyzed: 09/10/24

Gasoline Range Organics (C6-C10)	42.5	20.0	50.0	ND	85.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.96		8.00		99.5	70-130			

Matrix Spike Dup (2437005-MSD2) Source: E409059-10 Prepared: 09/09/24 Analyzed: 09/10/24

Gasoline Range Organics (C6-C10)	38.2	20.0	50.0	ND	76.4	70-130	10.7	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.96		8.00		99.5	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Cobber 21 Federal #001H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/13/2024 1:12:46PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437007-BLK1) Prepared: 09/09/24 Analyzed: 09/11/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.8		50.0		87.7	50-200			

LCS (2437007-BS1) Prepared: 09/09/24 Analyzed: 09/11/24

Diesel Range Organics (C10-C28)	217	25.0	250		86.9	38-132			
Surrogate: n-Nonane	43.5		50.0		87.0	50-200			

Matrix Spike (2437007-MS1) Source: E409057-03 Prepared: 09/09/24 Analyzed: 09/11/24

Diesel Range Organics (C10-C28)	335	25.0	250	184	60.5	38-132			
Surrogate: n-Nonane	44.3		50.0		88.6	50-200			

Matrix Spike Dup (2437007-MSD1) Source: E409057-03 Prepared: 09/09/24 Analyzed: 09/11/24

Diesel Range Organics (C10-C28)	357	25.0	250	184	69.4	38-132	6.39	20	
Surrogate: n-Nonane	41.6		50.0		83.1	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Cobber 21 Federal #001H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/13/2024 1:12:46PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437008-BLK1) Prepared: 09/09/24 Analyzed: 09/11/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	39.8		50.0		79.6	50-200			

LCS (2437008-BS1) Prepared: 09/09/24 Analyzed: 09/11/24

Diesel Range Organics (C10-C28)	194	25.0	250		77.4	38-132			
Surrogate: n-Nonane	39.1		50.0		78.1	50-200			

Matrix Spike (2437008-MS1) Source: E409059-04 Prepared: 09/09/24 Analyzed: 09/11/24

Diesel Range Organics (C10-C28)	292	25.0	250	85.6	82.5	38-132			
Surrogate: n-Nonane	40.4		50.0		80.9	50-200			

Matrix Spike Dup (2437008-MSD1) Source: E409059-04 Prepared: 09/09/24 Analyzed: 09/11/24

Diesel Range Organics (C10-C28)	276	25.0	250	85.6	76.2	38-132	5.52	20	
Surrogate: n-Nonane	36.7		50.0		73.4	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Cobber 21 Federal #001H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/13/2024 1:12:46PM

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2437010-BLK1)					Prepared: 09/09/24 Analyzed: 09/09/24				
Chloride	ND	20.0							
LCS (2437010-BS1)					Prepared: 09/09/24 Analyzed: 09/09/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2437010-MS1)					Source: E409057-03		Prepared: 09/09/24 Analyzed: 09/09/24		
Chloride	313	20.0	250	54.6	103	80-120			
Matrix Spike Dup (2437010-MSD1)					Source: E409057-03		Prepared: 09/09/24 Analyzed: 09/09/24		
Chloride	313	20.0	250	54.6	103	80-120	0.156	20	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Cobber 21 Federal #001H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/13/2024 1:12:46PM

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2437016-BLK1)					Prepared: 09/09/24 Analyzed: 09/09/24				
Chloride	ND	20.0							
LCS (2437016-BS1)					Prepared: 09/09/24 Analyzed: 09/09/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2437016-MS1)					Source: E409059-07		Prepared: 09/09/24 Analyzed: 09/09/24		
Chloride	1250	20.0	250	1200	19.6	80-120			M4
Matrix Spike Dup (2437016-MSD1)					Source: E409059-07		Prepared: 09/09/24 Analyzed: 09/09/24		
Chloride	1180	20.0	250	1200	NR	80-120	5.40	20	M4

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.

Definitions and Notes

Devon Energy - Carlsbad	Project Name:	Cobber 21 Federal #001H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	09/13/24 13:12

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Devon				Company: Devon				Lab WO#		Job Number		1D		2D		3D		Std	
Project: Cobber 21 Federal #001H				Address: 205 E Bender Road #150				E 404059		01058-0007								x	
Project Manager: Ashley Giovengo				City, State, Zip: Hobbs NM, 88240															
Address: 3122 National Parks Hwy				Phone: (575)748-1838															
City, State, Zip: Carlsbad NM, 88220				Email: dale.woodall@dvn.com															
Phone: 575-988-0055				Miscellaneous: Dale Woodall															
Email: agiovengo@ensolum.com																			
Sample Information							Analysis and Method										EPA Program		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA		
11:16	9/5/2024	S	1	FS46 - 0.5'		1						X							
10:49	9/5/2024	S	1	FS42 - 0'		2						X							
11:20	9/5/2024	S	1	FS36 - 0.5'		3						X							
10:07	9/5/2024	S	1	FS35 - 0'		4						X							
10:29	9/5/2024	S	1	FS34 - 0'		5						X							
9:57	9/5/2024	S	1	FS30 - 0'		6						X							
10:09	9/5/2024	S	1	FS29 - 0'		7						X							
10:27	9/5/2024	S	1	FS28 - 0'		8						X							
10:39	9/5/2024	S	1	FS27 - 0'		9						X							
10:49	9/5/2024	S	1	FS26 - 0'		10						X							
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dvn.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Cole Burton																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																			
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State									
Client: Devon				Company: Devon				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX						
Project: Cobber 21 Federal #001H				Address: 205 E Bender Road #150				E 709059		01058-0007					x	x									
Project Manager: Ashley Giovengo				City, State, Zip: Hobbs NM, 88240				Analysis and Method										EPA Program							
Address: 3122 National Parks Hwy				Phone: (575)748-1838														SDWA				CWA		RCRA	
City, State, Zip: Carlsbad NM, 88220				Email: dale.woodall@dvn.com														Compliance				Y		or	
Phone: 575-988-0055				Miscellaneous: Dale Woodall				Remarks										PWSID #							
Email: agiovengo@ensolum.com																									
Sample Information																									
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals										
11:44	9/5/2024	S	1	FS55 - 0'			11						X												
11:57	9/5/2024	S	1	FS49 - 0'			12						X												
12:01	9/5/2024	S	1	FS48 - 0'			13						X												
12:02	9/5/2024	S	1	FS47 - 0'			14						X												
12:03	9/5/2024	S	1	FS38 - 0'			15						X												
12:05	9/5/2024	S	1	FS37 - 0'			16						X												
14:12	9/5/2024	S	1	FS50 - 0.5'			17						X												
9:53	9/5/2024	S	1	FS53 - 0.5'			18						X												
9:48	9/5/2024	S	1	FS54 - 0.5'			19						X												
11:21	9/5/2024	S	1	FS52 - 0.5'			20						X												
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dvn.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																									
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																									
Sampled by: Cole Burton																									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4																	
Michelle Gonzales		9/6/24	7:30 am	Michelle Gonzales		9-6-24	0730																		
Michelle Gonzales		9-6-24	1630	Rajia Sekhram		9-6-24	1648																		
Rajia Sekhram		9-6-24	1353	Rajia Sekhram		9/7/24	7:30																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																									
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																									
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																									

Page 113 of 187

Client Information				Invoice Information				Lab Use Only				TAT				State															
Client: Devon				Company: Devon				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX												
Project: Cobber 21 Federal #001H				Address: 205 E Bender Road #150				E 469059		01058-0007					x	x															
Project Manager: Ashley Giovengo				City, State, Zip: Hobbs NM, 88240																											
Address: 3122 National Parks Hwy				Phone: (575)748-1838																											
City, State, Zip: Carlsbad NM, 88220				Email: dale.woodall@dvn.com																											
Phone: 575-988-0055				Miscellaneous: Dale Woodall																											
Email: agiovengo@ensolum.com																															
																Analysis and Method								EPA Program							
																DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals					SDWA	CWA	RCRA	
																												Compliance	Y	or	N
																												PWSID #			
Sample Information																												Remarks			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number																								
10:11	9/5/2024	S	1	FS22 - 0'			21																								
10:00	9/5/2024	S	1	FS17 - 0'			22																								
11:10	9/5/2024	S	1	FS01 - 0.5'			23																								
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dvn.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																															
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																															
Sampled by: Cole Burton																															
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. <div>Lab Use Only Received on ice: Y / N T1 T2 T3 AVG Temp °C 4</div>																									
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																										
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																										
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																					
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																															

Envirotech Analytical Laboratory

Printed: 9/9/2024 11:44:00AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Devon Energy - Carlsbad	Date Received:	09/07/24 07:30	Work Order ID:	E409059
Phone:	(505) 382-1211	Date Logged In:	09/07/24 07:33	Logged In By:	Raina Schwanz
Email:	ashley.giovengo@wescominc.com	Due Date:	09/13/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy

Project Name: Cobber 21 Federal #001H

Work Order: E409069

Job Number: 01058-0007

Received: 9/10/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/16/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/16/24

Ashley Giovengo
PO Box 6459
Navajo Dam, NM 87419



Project Name: Cobber 21 Federal #001H
Workorder: E409069
Date Received: 9/10/2024 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/10/2024 6:00:00AM, under the Project Name: Cobber 21 Federal #001H.

The analytical test results summarized in this report with the Project Name: Cobber 21 Federal #001H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
FS02-0.5'	6
FS03-0.5'	7
FS04-0.5'	8
FS05-0.5'	9
FS06-0.5'	10
FS07-0.5'	11
FS08-0.5'	12
FS09-0.5'	13
FS10-0.5'	14
FS11-0.5'	15
FS12-0.5'	16
FS13-0.5'	17
FS14-0.5'	18
FS15-0.5'	19
FS16-0.5'	20
FS18-0.5'	21
FS19-0.5'	22
FS20-0.5'	23
FS21-0.5'	24
FS23-0.5'	25

Table of Contents (continued)

QC Summary Data	26
QC - Volatile Organic Compounds by EPA8260B	26
QC - Nonhalogenated Organics by EPA 8015D - GRO	27
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	28
QC - Anions by EPA 300.0/9056A	29
Definitions and Notes	30
Chain of Custody etc.	31

Sample Summary

Devon Energy	Project Name:	Cobber 21 Federal #001H	Reported:
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	09/16/24 09:43

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS02-0.5'	E409069-01A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS03-0.5'	E409069-02A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS04-0.5'	E409069-03A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS05-0.5'	E409069-04A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS06-0.5'	E409069-05A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS07-0.5'	E409069-06A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS08-0.5'	E409069-07A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS09-0.5'	E409069-08A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS10-0.5'	E409069-09A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS11-0.5'	E409069-10A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS12-0.5'	E409069-11A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS13-0.5'	E409069-12A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS14-0.5'	E409069-13A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS15-0.5'	E409069-14A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS16-0.5'	E409069-15A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS18-0.5'	E409069-16A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS19-0.5'	E409069-17A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS20-0.5'	E409069-18A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS21-0.5'	E409069-19A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS23-0.5'	E409069-20A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.



Sample Data

Devon Energy PO Box 6459 Navajo Dam NM, 87419	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/16/2024 9:43:58AM
-----------------------------------------------------	---------------------------------------------------------------------------------------------------------	----------------------------------

FS02-0.5'

E409069-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2437037	
Benzene	ND	0.0250	1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/11/24	
Toluene	ND	0.0250	1	09/10/24	09/11/24	
o-Xylene	ND	0.0250	1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		91.2 %	70-130	09/10/24	09/11/24	
Surrogate: Toluene-d8		108 %	70-130	09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2437037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		91.2 %	70-130	09/10/24	09/11/24	
Surrogate: Toluene-d8		108 %	70-130	09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2437042	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/24	09/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/11/24	
Surrogate: n-Nonane		74.3 %	50-200	09/10/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2437029	
Chloride	323	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy
PO Box 6459
Navajo Dam NM, 87419

Project Name: Cobber 21 Federal #001H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/16/2024 9:43:58AM

FS03-0.5'

E409069-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437037
Benzene	ND	0.0250	1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/11/24	
Toluene	ND	0.0250	1	09/10/24	09/11/24	
o-Xylene	ND	0.0250	1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	09/10/24	09/11/24	
Surrogate: Toluene-d8		110 %	70-130	09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437037
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	09/10/24	09/11/24	
Surrogate: Toluene-d8		110 %	70-130	09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2437042
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/24	09/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/11/24	
Surrogate: n-Nonane		76.1 %	50-200	09/10/24	09/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2437029
Chloride	330	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy
PO Box 6459
Navajo Dam NM, 87419

Project Name: Cobber 21 Federal #001H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/16/2024 9:43:58AM

FS04-0.5'

E409069-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437037
Benzene	ND	0.0250	1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/11/24	
Toluene	ND	0.0250	1	09/10/24	09/11/24	
o-Xylene	ND	0.0250	1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130	09/10/24	09/11/24	
Surrogate: Toluene-d8		109 %	70-130	09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437037
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130	09/10/24	09/11/24	
Surrogate: Toluene-d8		109 %	70-130	09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2437042
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/24	09/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/11/24	
Surrogate: n-Nonane		74.7 %	50-200	09/10/24	09/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2437029
Chloride	229	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy	Project Name:	Cobber 21 Federal #001H	Reported: 9/16/2024 9:43:58AM
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	

FS05-0.5'

E409069-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2437037	
Benzene	ND	0.0250	1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/11/24	
Toluene	ND	0.0250	1	09/10/24	09/11/24	
o-Xylene	ND	0.0250	1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	09/10/24	09/11/24	
Surrogate: Toluene-d8		111 %	70-130	09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2437037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	09/10/24	09/11/24	
Surrogate: Toluene-d8		111 %	70-130	09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2437042	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/24	09/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/11/24	
Surrogate: n-Nonane		73.9 %	50-200	09/10/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2437029	
Chloride	456	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy	Project Name:	Cobber 21 Federal #001H	Reported: 9/16/2024 9:43:58AM
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	

FS06-0.5'

E409069-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437037	
Benzene	ND	0.0250	1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/11/24	
Toluene	ND	0.0250	1	09/10/24	09/11/24	
o-Xylene	ND	0.0250	1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	105 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	95.1 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	110 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	105 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	95.1 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	110 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2437042	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/24	09/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/11/24	
Surrogate: n-Nonane	85.4 %	50-200		09/10/24	09/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2437029	
Chloride	446	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy
PO Box 6459
Navajo Dam NM, 87419

Project Name: Cobber 21 Federal #001H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/16/2024 9:43:58AM

FS07-0.5'

E409069-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437037
Benzene	ND	0.0250	1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/11/24	
Toluene	ND	0.0250	1	09/10/24	09/11/24	
o-Xylene	ND	0.0250	1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-130	09/10/24	09/11/24	
Surrogate: Toluene-d8		111 %	70-130	09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437037
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-130	09/10/24	09/11/24	
Surrogate: Toluene-d8		111 %	70-130	09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2437042
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane		78.7 %	50-200	09/10/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2437029
Chloride	478	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy PO Box 6459 Navajo Dam NM, 87419	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/16/2024 9:43:58AM
-----------------------------------------------------	---------------------------------------------------------------------------------------------------------	----------------------------------

FS08-0.5'

E409069-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437037	
Benzene	ND	0.0250	1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/11/24	
Toluene	ND	0.0250	1	09/10/24	09/11/24	
o-Xylene	ND	0.0250	1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130	09/10/24	09/11/24	
Surrogate: Toluene-d8		109 %	70-130	09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130	09/10/24	09/11/24	
Surrogate: Toluene-d8		109 %	70-130	09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2437042	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane		80.1 %	50-200	09/10/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2437029	
Chloride	330	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy
PO Box 6459
Navajo Dam NM, 87419

Project Name: Cobber 21 Federal #001H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/16/2024 9:43:58AM

FS09-0.5'

E409069-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437037
Benzene	ND	0.0250	1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/11/24	
Toluene	ND	0.0250	1	09/10/24	09/11/24	
o-Xylene	ND	0.0250	1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		93.9 %	70-130	09/10/24	09/11/24	
Surrogate: Toluene-d8		110 %	70-130	09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437037
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		93.9 %	70-130	09/10/24	09/11/24	
Surrogate: Toluene-d8		110 %	70-130	09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2437042
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane		78.8 %	50-200	09/10/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2437029
Chloride	553	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy
PO Box 6459
Navajo Dam NM, 87419

Project Name: Cobber 21 Federal #001H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/16/2024 9:43:58AM

FS10-0.5'

E409069-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437037
Benzene	ND	0.0250	1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/11/24	
Toluene	ND	0.0250	1	09/10/24	09/11/24	
o-Xylene	ND	0.0250	1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		92.8 %	70-130	09/10/24	09/11/24	
Surrogate: Toluene-d8		111 %	70-130	09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437037
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		92.8 %	70-130	09/10/24	09/11/24	
Surrogate: Toluene-d8		111 %	70-130	09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2437042
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane		76.7 %	50-200	09/10/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2437029
Chloride	148	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy
PO Box 6459
Navajo Dam NM, 87419

Project Name: Cobber 21 Federal #001H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/16/2024 9:43:58AM

FS11-0.5'

E409069-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437037
Benzene	ND	0.0250	1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/11/24	
Toluene	ND	0.0250	1	09/10/24	09/11/24	
o-Xylene	ND	0.0250	1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130	09/10/24	09/11/24	
Surrogate: Toluene-d8		109 %	70-130	09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437037
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130	09/10/24	09/11/24	
Surrogate: Toluene-d8		109 %	70-130	09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2437042
Diesel Range Organics (C10-C28)	37.1	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane		82.1 %	50-200	09/10/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2437029
Chloride	1550	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy
PO Box 6459
Navajo Dam NM, 87419

Project Name: Cobber 21 Federal #001H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/16/2024 9:43:58AM

FS12-0.5'

E409069-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437037
Benzene	ND	0.0250	1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/11/24	
Toluene	ND	0.0250	1	09/10/24	09/11/24	
o-Xylene	ND	0.0250	1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		101 %	70-130	09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130	09/10/24	09/11/24	
Surrogate: Toluene-d8		109 %	70-130	09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437037
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		101 %	70-130	09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130	09/10/24	09/11/24	
Surrogate: Toluene-d8		109 %	70-130	09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2437042
Diesel Range Organics (C10-C28)	267	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	121	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane		67.8 %	50-200	09/10/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2437029
Chloride	786	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy
PO Box 6459
Navajo Dam NM, 87419

Project Name: Cobber 21 Federal #001H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/16/2024 9:43:58AM

FS13-0.5'

E409069-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437037
Benzene	ND	0.0250	1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/11/24	
Toluene	ND	0.0250	1	09/10/24	09/11/24	
o-Xylene	ND	0.0250	1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	09/10/24	09/11/24	
Surrogate: Toluene-d8		108 %	70-130	09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437037
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	09/10/24	09/11/24	
Surrogate: Toluene-d8		108 %	70-130	09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2437042
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane		66.0 %	50-200	09/10/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2437029
Chloride	325	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy	Project Name:	Cobber 21 Federal #001H	Reported: 9/16/2024 9:43:58AM
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	

FS14-0.5'

E409069-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2437037	
Benzene	ND	0.0250	1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/11/24	
Toluene	ND	0.0250	1	09/10/24	09/11/24	
o-Xylene	ND	0.0250	1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	09/10/24	09/11/24	
Surrogate: Toluene-d8		111 %	70-130	09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2437037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	09/10/24	09/11/24	
Surrogate: Toluene-d8		111 %	70-130	09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2437042	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane		72.6 %	50-200	09/10/24	09/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2437029	
Chloride	248	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy
PO Box 6459
Navajo Dam NM, 87419

Project Name: Cobber 21 Federal #001H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/16/2024 9:43:58AM

FS15-0.5'

E409069-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437037
Benzene	ND	0.0250	1	09/10/24	09/12/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/12/24	
Toluene	ND	0.0250	1	09/10/24	09/12/24	
o-Xylene	ND	0.0250	1	09/10/24	09/12/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/12/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/12/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/10/24	09/12/24	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	09/10/24	09/12/24	
Surrogate: Toluene-d8		110 %	70-130	09/10/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437037
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/12/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/10/24	09/12/24	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	09/10/24	09/12/24	
Surrogate: Toluene-d8		110 %	70-130	09/10/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2437042
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane		73.6 %	50-200	09/10/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2437029
Chloride	342	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy	Project Name:	Cobber 21 Federal #001H	Reported: 9/16/2024 9:43:58AM
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	

FS16-0.5'

E409069-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437037	
Benzene	ND	0.0250	1	09/10/24	09/12/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/12/24	
Toluene	ND	0.0250	1	09/10/24	09/12/24	
o-Xylene	ND	0.0250	1	09/10/24	09/12/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/12/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/12/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/10/24	09/12/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	09/10/24	09/12/24	
Surrogate: Toluene-d8		111 %	70-130	09/10/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/12/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/10/24	09/12/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	09/10/24	09/12/24	
Surrogate: Toluene-d8		111 %	70-130	09/10/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2437042	
Diesel Range Organics (C10-C28)	66.1	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane		76.2 %	50-200	09/10/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2437029	
Chloride	278	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy
PO Box 6459
Navajo Dam NM, 87419

Project Name: Cobber 21 Federal #001H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/16/2024 9:43:58AM

FS18-0.5'

E409069-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437037
Benzene	ND	0.0250	1	09/10/24	09/12/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/12/24	
Toluene	ND	0.0250	1	09/10/24	09/12/24	
o-Xylene	ND	0.0250	1	09/10/24	09/12/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/12/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/12/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/10/24	09/12/24	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	09/10/24	09/12/24	
Surrogate: Toluene-d8		110 %	70-130	09/10/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437037
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/12/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/10/24	09/12/24	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	09/10/24	09/12/24	
Surrogate: Toluene-d8		110 %	70-130	09/10/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2437042
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane		70.1 %	50-200	09/10/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2437029
Chloride	196	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy
PO Box 6459
Navajo Dam NM, 87419

Project Name: Cobber 21 Federal #001H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/16/2024 9:43:58AM

FS19-0.5'

E409069-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437037
Benzene	ND	0.0250	1	09/10/24	09/12/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/12/24	
Toluene	ND	0.0250	1	09/10/24	09/12/24	
o-Xylene	ND	0.0250	1	09/10/24	09/12/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/12/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/12/24	
Surrogate: Bromofluorobenzene		105 %	70-130	09/10/24	09/12/24	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130	09/10/24	09/12/24	
Surrogate: Toluene-d8		109 %	70-130	09/10/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437037
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/12/24	
Surrogate: Bromofluorobenzene		105 %	70-130	09/10/24	09/12/24	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130	09/10/24	09/12/24	
Surrogate: Toluene-d8		109 %	70-130	09/10/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2437042
Diesel Range Organics (C10-C28)	34.8	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane		74.4 %	50-200	09/10/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2437029
Chloride	1060	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy	Project Name:	Cobber 21 Federal #001H	Reported: 9/16/2024 9:43:58AM
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	

FS20-0.5'

E409069-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2437037	
Benzene	ND	0.0250	1	09/10/24	09/12/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/12/24	
Toluene	ND	0.0250	1	09/10/24	09/12/24	
o-Xylene	ND	0.0250	1	09/10/24	09/12/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/12/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/12/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/10/24	09/12/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	09/10/24	09/12/24	
Surrogate: Toluene-d8		109 %	70-130	09/10/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2437037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/12/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/10/24	09/12/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	09/10/24	09/12/24	
Surrogate: Toluene-d8		109 %	70-130	09/10/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2437042	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane		70.3 %	50-200	09/10/24	09/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2437029	
Chloride	1190	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy PO Box 6459 Navajo Dam NM, 87419	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/16/2024 9:43:58AM
-----------------------------------------------------	---------------------------------------------------------------------------------------------------------	----------------------------------

FS21-0.5'

E409069-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437037	
Benzene	ND	0.0250	1	09/10/24	09/12/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/12/24	
Toluene	ND	0.0250	1	09/10/24	09/12/24	
o-Xylene	ND	0.0250	1	09/10/24	09/12/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/12/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/12/24	
Surrogate: Bromofluorobenzene	101 %	70-130		09/10/24	09/12/24	
Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130		09/10/24	09/12/24	
Surrogate: Toluene-d8	109 %	70-130		09/10/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/12/24	
Surrogate: Bromofluorobenzene	101 %	70-130		09/10/24	09/12/24	
Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130		09/10/24	09/12/24	
Surrogate: Toluene-d8	109 %	70-130		09/10/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2437042	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane	74.2 %	50-200		09/10/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2437029	
Chloride	366	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy
PO Box 6459
Navajo Dam NM, 87419

Project Name: Cobber 21 Federal #001H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/16/2024 9:43:58AM

FS23-0.5'

E409069-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437037
Benzene	ND	0.0250	1	09/10/24	09/12/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/12/24	
Toluene	ND	0.0250	1	09/10/24	09/12/24	
o-Xylene	ND	0.0250	1	09/10/24	09/12/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/12/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/12/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/10/24	09/12/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	09/10/24	09/12/24	
Surrogate: Toluene-d8		107 %	70-130	09/10/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437037
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/12/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/10/24	09/12/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	09/10/24	09/12/24	
Surrogate: Toluene-d8		107 %	70-130	09/10/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2437042
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane		68.7 %	50-200	09/10/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2437029
Chloride	22.7	20.0	1	09/10/24	09/10/24	



QC Summary Data

Devon Energy	Project Name:	Cobber 21 Federal #001H	Reported:
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	9/16/2024 9:43:58AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2437037-BLK1) Prepared: 09/10/24 Analyzed: 09/11/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			

LCS (2437037-BS1) Prepared: 09/10/24 Analyzed: 09/11/24

Benzene	2.33	0.0250	2.50		93.4	70-130			
Ethylbenzene	2.45	0.0250	2.50		97.9	70-130			
Toluene	2.47	0.0250	2.50		98.7	70-130			
o-Xylene	2.42	0.0250	2.50		96.7	70-130			
p,m-Xylene	4.89	0.0500	5.00		97.8	70-130			
Total Xylenes	7.31	0.0250	7.50		97.4	70-130			
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.538		0.500		108	70-130			

Matrix Spike (2437037-MS1) Source: E409069-05 Prepared: 09/10/24 Analyzed: 09/11/24

Benzene	2.45	0.0250	2.50	ND	98.1	48-131			
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135			
Toluene	2.57	0.0250	2.50	ND	103	48-130			
o-Xylene	2.50	0.0250	2.50	ND	100	43-135			
p,m-Xylene	5.00	0.0500	5.00	ND	100	43-135			
Total Xylenes	7.51	0.0250	7.50	ND	100	43-135			
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			

Matrix Spike Dup (2437037-MSD1) Source: E409069-05 Prepared: 09/10/24 Analyzed: 09/11/24

Benzene	2.14	0.0250	2.50	ND	85.4	48-131	13.8	23	
Ethylbenzene	2.25	0.0250	2.50	ND	90.2	45-135	12.0	27	
Toluene	2.28	0.0250	2.50	ND	91.0	48-130	12.0	24	
o-Xylene	2.24	0.0250	2.50	ND	89.7	43-135	11.0	27	
p,m-Xylene	4.53	0.0500	5.00	ND	90.6	43-135	9.90	27	
Total Xylenes	6.77	0.0250	7.50	ND	90.3	43-135	10.3	27	
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.465		0.500		93.0	70-130			
Surrogate: Toluene-d8	0.542		0.500		108	70-130			



QC Summary Data

Devon Energy	Project Name:	Cobber 21 Federal #001H	Reported:
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	9/16/2024 9:43:58AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2437037-BLK1) Prepared: 09/10/24 Analyzed: 09/11/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			

LCS (2437037-BS2) Prepared: 09/10/24 Analyzed: 09/11/24

Gasoline Range Organics (C6-C10)	55.8	20.0	50.0		112	70-130			
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.465		0.500		93.0	70-130			
Surrogate: Toluene-d8	0.550		0.500		110	70-130			

Matrix Spike (2437037-MS2) Source: E409069-05 Prepared: 09/10/24 Analyzed: 09/11/24

Gasoline Range Organics (C6-C10)	54.9	20.0	50.0	ND	110	70-130			
Surrogate: Bromofluorobenzene	0.528		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.8	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2437037-MSD2) Source: E409069-05 Prepared: 09/10/24 Analyzed: 09/11/24

Gasoline Range Organics (C6-C10)	56.5	20.0	50.0	ND	113	70-130	2.90	20	
Surrogate: Bromofluorobenzene	0.532		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.1	70-130			
Surrogate: Toluene-d8	0.555		0.500		111	70-130			



QC Summary Data

Devon Energy	Project Name:	Cobber 21 Federal #001H	Reported:
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	9/16/2024 9:43:58AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437042-BLK1)					Prepared: 09/10/24 Analyzed: 09/11/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	41.8		50.0		83.6	50-200			

LCS (2437042-BS1)					Prepared: 09/10/24 Analyzed: 09/11/24				
Diesel Range Organics (C10-C28)	249	25.0	250		99.5	38-132			
Surrogate: n-Nonane	43.8		50.0		87.7	50-200			

Matrix Spike (2437042-MS1)					Source: E409069-03		Prepared: 09/10/24 Analyzed: 09/11/24		
Diesel Range Organics (C10-C28)	273	25.0	250	ND	109	38-132			
Surrogate: n-Nonane	41.3		50.0		82.6	50-200			

Matrix Spike Dup (2437042-MSD1)					Source: E409069-03		Prepared: 09/10/24 Analyzed: 09/11/24		
Diesel Range Organics (C10-C28)	274	25.0	250	ND	109	38-132	0.259	20	
Surrogate: n-Nonane	44.1		50.0		88.1	50-200			



QC Summary Data

Devon Energy	Project Name:	Cobber 21 Federal #001H	Reported:
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	9/16/2024 9:43:58AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437029-BLK1)					Prepared: 09/10/24 Analyzed: 09/10/24				
Chloride	ND	20.0							
LCS (2437029-BS1)					Prepared: 09/10/24 Analyzed: 09/10/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2437029-MS1)					Source: E409069-09		Prepared: 09/10/24 Analyzed: 09/10/24		
Chloride	405	20.0	250	148	103	80-120			
Matrix Spike Dup (2437029-MSD1)					Source: E409069-09		Prepared: 09/10/24 Analyzed: 09/10/24		
Chloride	398	20.0	250	148	100	80-120	1.86	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Devon Energy	Project Name:	Cobber 21 Federal #001H	
PO Box 6459	Project Number:	01058-0007	Reported:
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	09/16/24 09:43

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client Information				Invoice Information				Lab Use Only				TAT				State					
Client: Devon				Company: Devon				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX		
Project: <u>Cohber 21 Federal #001H</u>				Address: 205 E Bender Road #150				<u>E409069</u>		<u>01058-0007</u>					X	X					
Project Manager: Ashley Giovengo				City, State, Zip: Hobbs NM, 88240																	
Address: 3122 National Parks Hwy				Phone: (575)748-1838																	
City, State, Zip: Carlsbad NM, 88220				Email: dale.woodall@dm.com																	
Phone: 575-988-0055				Miscellaneous: Dale Woodall																	
Email: agiovengo@ensolum.com																					
Sample Information										Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA				
															Compliance	Y	or	N			
															PWSID #						
															Remarks						
1121	9/6/2024	Soil	1	FS02 - 0.5'		1						X									
1119	9/6/2024	Soil	1	FS03 - 0.5'		2						X									
1117	9/6/2024	Soil	1	FS04 - 0.5'		3						X									
1116	9/6/2024	Soil	1	FS05 - 0.5'		4						X									
1112	9/6/2024	Soil	1	FS06 - 0.5'		5						X									
1106	9/6/2024	Soil	1	FS07 - 0.5'		6						X									
1106	9/6/2024	Soil	1	FS08 - 0.5'		7						X									
1104	9/4/2024	Soil	1	^{SD} FS09 - 0.5'		8						X									
1100	9/4/2024	Soil	1	FS10 - 0.5'		9						X									
1059	9/6/2024	Soil	1	FS11 - 0.5'		10						X									
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dm.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																					
Sampled by: Cole Burton Branden Deal																					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time														
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____											
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					



Chain of Custody

WO# 21149134

Page 2 of 4

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Devon				Company: Devon		Lab WO#		1D 2D 3D Std				NM CO UT TX					
Project: Copper 21 Federal #001H				Address: 205 E Bender Road #150		E409069		Job Number				01058-0007					
Project Manager: Ashley Giovengo				City, State, Zip: Hobbs NM, 88240								X					
Address: 3122 National Parks Hwy				Phone: (575)748-1838													
City, State, Zip: Carlsbad NM, 88220				Email: dale.woodall@dv.com													
Phone: 575-988-0055				Miscellaneous: Dale Woodall													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
1057	9/6/2024	Soil	1	FS12 - 0.5'		11						X					
1056	9/6/2024	Soil	1	FS13 - 0.5'		12						X					
1054	9/6/2024	Soil	1	FS14 - 0.5'		13						X					
1052	9/6/2024	Soil	1	FS15 - 0.5'		14						X					
1051	9/6/2024	Soil	1	FS16 - 0.5'		15						X					
1046	9/6/2024	Soil	1	FS16 - 0.5'		16						X					
1047	9/6/2024	Soil	1	FS14 - 0.5'		17						X					
1040	9/6/2024	Soil	1	FS20 - 0.5'		18						X					
1041	9/6/2024	Soil	1	FS21 - 0.5'		19						X					
1127	9/6/2024	Soil	1	FS23 - 0.5'		20						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dv.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Cole Burton <u>Brandon Deal</u>																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



envirotech

Envirotech Analytical Laboratory

Printed: 9/10/2024 9:53:56AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Devon Energy	Date Received:	09/10/24 06:00	Work Order ID:	E409069
Phone:	(505)324-5600	Date Logged In:	09/10/24 05:52	Logged In By:	Keyliegh Hall
Email:		Due Date:	09/16/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Project Cobber 21 Federal #001H has been separated into 2 work orders. E409069 & E409070.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? No
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: N/A

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy

Project Name: Cobber 21 Federal #001H

Work Order: E409070

Job Number: 01058-0007

Received: 9/10/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/16/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/16/24

Ashley Giovengo
PO Box 6459
Navajo Dam, NM 87419



Project Name: Cobber 21 Federal #001H
Workorder: E409070
Date Received: 9/10/2024 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/10/2024 6:00:00AM, under the Project Name: Cobber 21 Federal #001H.

The analytical test results summarized in this report with the Project Name: Cobber 21 Federal #001H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
FS24-0.5'	6
FS25-0.5'	7
FS26-0.5'	8
FS27-0.5'	9
FS31-0.5'	10
FS32-0.5'	11
FS33-0.5'	12
FS39-0.5'	13
FS40-0.5'	14
FS41-0.5'	15
FS43-0.5'	16
FS44-0.5'	17
FS45-0.5'	18
FS51-0.5'	19
QC Summary Data	20
QC - Volatile Organic Compounds by EPA 8260B	20
QC - Nonhalogenated Organics by EPA 8015D - GRO	21
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	22
QC - Anions by EPA 300.0/9056A	23
Definitions and Notes	24

Table of Contents (continued)

Chain of Custody etc.

25

Sample Summary

Devon Energy	Project Name:	Cobber 21 Federal #001H	Reported:
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	09/16/24 10:28

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS24-0.5'	E409070-01A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS25-0.5'	E409070-02A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS26-0.5'	E409070-03A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS27-0.5'	E409070-04A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS31-0.5'	E409070-05A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS32-0.5'	E409070-06A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS33-0.5'	E409070-07A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS39-0.5'	E409070-08A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS40-0.5'	E409070-09A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS41-0.5'	E409070-10A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS43-0.5'	E409070-11A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS44-0.5'	E409070-12A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS45-0.5'	E409070-13A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.
FS51-0.5'	E409070-14A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.



Sample Data

Devon Energy PO Box 6459 Navajo Dam NM, 87419	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/16/2024 10:28:57AM
-----------------------------------------------------	---------------------------------------------------------------------------------------------------------	-----------------------------------

FS24-0.5'

E409070-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2437038	
Benzene	ND	0.0250	1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/11/24	
Toluene	ND	0.0250	1	09/10/24	09/11/24	
o-Xylene	ND	0.0250	1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	94.3 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	101 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2437038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	94.3 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	101 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437041	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane	71.2 %	50-200		09/10/24	09/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2437028	
Chloride	22.0	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy PO Box 6459 Navajo Dam NM, 87419	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/16/2024 10:28:57AM
-----------------------------------------------------	---------------------------------------------------------------------------------------------------------	-----------------------------------

FS25-0.5'

E409070-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437038	
Benzene	ND	0.0250	1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/11/24	
Toluene	ND	0.0250	1	09/10/24	09/11/24	
o-Xylene	ND	0.0250	1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	91.8 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	101 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	91.8 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	101 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437041	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane	69.5 %	50-200		09/10/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437028	
Chloride	229	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy
PO Box 6459
Navajo Dam NM, 87419

Project Name: Cobber 21 Federal #001H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/16/2024 10:28:57AM

FS26-0.5'

E409070-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437038
Benzene	ND	0.0250	1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/11/24	
Toluene	ND	0.0250	1	09/10/24	09/11/24	
o-Xylene	ND	0.0250	1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	93.5 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	100 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	93.5 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	100 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437041
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane	65.6 %	50-200		09/10/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437028
Chloride	139	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy
PO Box 6459
Navajo Dam NM, 87419

Project Name: Cobber 21 Federal #001H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/16/2024 10:28:57AM

FS27-0.5'

E409070-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437038
Benzene	ND	0.0250	1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/11/24	
Toluene	ND	0.0250	1	09/10/24	09/11/24	
o-Xylene	ND	0.0250	1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	93.6 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	92.1 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	99.8 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	93.6 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	92.1 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	99.8 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437041
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane	74.7 %	50-200		09/10/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437028
Chloride	370	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy
PO Box 6459
Navajo Dam NM, 87419

Project Name: Cobber 21 Federal #001H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/16/2024 10:28:57AM

FS31-0.5'

E409070-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437038
Benzene	ND	0.0250	1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/11/24	
Toluene	ND	0.0250	1	09/10/24	09/11/24	
o-Xylene	ND	0.0250	1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	92.0 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	94.3 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	101 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	92.0 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	94.3 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	101 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437041
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane	66.8 %	50-200		09/10/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437028
Chloride	376	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy PO Box 6459 Navajo Dam NM, 87419	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/16/2024 10:28:57AM
-----------------------------------------------------	---------------------------------------------------------------------------------------------------------	-----------------------------------

FS32-0.5'

E409070-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437038	
Benzene	ND	0.0250	1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/11/24	
Toluene	ND	0.0250	1	09/10/24	09/11/24	
o-Xylene	ND	0.0250	1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	93.5 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	90.7 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	100 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	93.5 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	90.7 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	100 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437041	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane	67.5 %	50-200		09/10/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437028	
Chloride	305	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy PO Box 6459 Navajo Dam NM, 87419	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/16/2024 10:28:57AM
-----------------------------------------------------	---------------------------------------------------------------------------------------------------------	-----------------------------------

FS33-0.5'

E409070-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437038
Benzene	ND	0.0250	1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/11/24	
Toluene	ND	0.0250	1	09/10/24	09/11/24	
o-Xylene	ND	0.0250	1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	89.9 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	90.8 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	102 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	89.9 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	90.8 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	102 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437041
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane	67.7 %	50-200		09/10/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437028
Chloride	537	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy
PO Box 6459
Navajo Dam NM, 87419

Project Name: Cobber 21 Federal #001H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/16/2024 10:28:57AM

FS39-0.5'

E409070-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437038
Benzene	ND	0.0250	1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/11/24	
Toluene	ND	0.0250	1	09/10/24	09/11/24	
o-Xylene	ND	0.0250	1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	95.4 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	101 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	95.4 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	101 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437041
Diesel Range Organics (C10-C28)	63.3	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane	64.0 %	50-200		09/10/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437028
Chloride	1130	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy
PO Box 6459
Navajo Dam NM, 87419

Project Name: Cobber 21 Federal #001H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/16/2024 10:28:57AM

FS40-0.5'

E409070-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437038
Benzene	ND	0.0250	1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/11/24	
Toluene	ND	0.0250	1	09/10/24	09/11/24	
o-Xylene	ND	0.0250	1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	93.1 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	90.9 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	103 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	93.1 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	90.9 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	103 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437041
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane	69.9 %	50-200		09/10/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437028
Chloride	319	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy
PO Box 6459
Navajo Dam NM, 87419

Project Name: Cobber 21 Federal #001H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/16/2024 10:28:57AM

FS41-0.5'

E409070-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437038
Benzene	ND	0.0250	1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/11/24	
Toluene	ND	0.0250	1	09/10/24	09/11/24	
o-Xylene	ND	0.0250	1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	90.3 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	100 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	90.3 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	100 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437041
Diesel Range Organics (C10-C28)	30.1	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane	70.5 %	50-200		09/10/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437028
Chloride	404	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy
PO Box 6459
Navajo Dam NM, 87419

Project Name: Cobber 21 Federal #001H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/16/2024 10:28:57AM

FS43-0.5'

E409070-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437038
Benzene	ND	0.0250	1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/11/24	
Toluene	ND	0.0250	1	09/10/24	09/11/24	
o-Xylene	ND	0.0250	1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	90.3 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	100 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	90.3 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	100 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437041
Diesel Range Organics (C10-C28)	151	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane	70.9 %	50-200		09/10/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437028
Chloride	527	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy
PO Box 6459
Navajo Dam NM, 87419

Project Name: Cobber 21 Federal #001H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/16/2024 10:28:57AM

FS44-0.5'

E409070-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437038
Benzene	ND	0.0250	1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/11/24	
Toluene	ND	0.0250	1	09/10/24	09/11/24	
o-Xylene	ND	0.0250	1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	92.6 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	93.0 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	102 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	92.6 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	93.0 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	102 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437041
Diesel Range Organics (C10-C28)	30.4	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane	69.2 %	50-200		09/10/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437028
Chloride	616	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy PO Box 6459 Navajo Dam NM, 87419	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/16/2024 10:28:57AM
-----------------------------------------------------	---------------------------------------------------------------------------------------------------------	-----------------------------------

FS45-0.5'

E409070-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437038
Benzene	ND	0.0250	1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/11/24	
Toluene	ND	0.0250	1	09/10/24	09/11/24	
o-Xylene	ND	0.0250	1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	90.8 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	100 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	90.8 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	100 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437041
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane	70.2 %	50-200		09/10/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437028
Chloride	655	20.0	1	09/10/24	09/10/24	



Sample Data

Devon Energy PO Box 6459 Navajo Dam NM, 87419	Project Name: Cobber 21 Federal #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/16/2024 10:28:57AM
-----------------------------------------------------	---------------------------------------------------------------------------------------------------------	-----------------------------------

FS51-0.5'

E409070-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437038
Benzene	ND	0.0250	1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/10/24	09/11/24	
Toluene	ND	0.0250	1	09/10/24	09/11/24	
o-Xylene	ND	0.0250	1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	92.7 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	90.5 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	99.0 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene	92.7 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4	90.5 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8	99.0 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437041
Diesel Range Organics (C10-C28)	237	25.0	1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	82.8	50.0	1	09/10/24	09/12/24	
Surrogate: n-Nonane	69.5 %	50-200		09/10/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437028
Chloride	1600	20.0	1	09/10/24	09/10/24	



QC Summary Data

Devon Energy	Project Name:	Cobber 21 Federal #001H	Reported:
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	9/16/2024 10:28:57AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2437038-BLK1) Prepared: 09/10/24 Analyzed: 09/11/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.472		0.500		94.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

LCS (2437038-BS1) Prepared: 09/10/24 Analyzed: 09/11/24

Benzene	2.21	0.0250	2.50		88.3	70-130			
Ethylbenzene	2.26	0.0250	2.50		90.3	70-130			
Toluene	2.39	0.0250	2.50		95.6	70-130			
o-Xylene	2.44	0.0250	2.50		97.7	70-130			
p,m-Xylene	4.91	0.0500	5.00		98.2	70-130			
Total Xylenes	7.35	0.0250	7.50		98.0	70-130			
Surrogate: Bromofluorobenzene	0.476		0.500		95.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

Matrix Spike (2437038-MS1) Source: E409070-08 Prepared: 09/10/24 Analyzed: 09/11/24

Benzene	2.21	0.0250	2.50	ND	88.5	48-131			
Ethylbenzene	2.24	0.0250	2.50	ND	89.7	45-135			
Toluene	2.41	0.0250	2.50	ND	96.2	48-130			
o-Xylene	2.47	0.0250	2.50	ND	98.8	43-135			
p,m-Xylene	4.94	0.0500	5.00	ND	98.8	43-135			
Total Xylenes	7.41	0.0250	7.50	ND	98.8	43-135			
Surrogate: Bromofluorobenzene	0.473		0.500		94.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

Matrix Spike Dup (2437038-MSD1) Source: E409070-08 Prepared: 09/10/24 Analyzed: 09/11/24

Benzene	2.28	0.0250	2.50	ND	91.2	48-131	3.00	23	
Ethylbenzene	2.30	0.0250	2.50	ND	92.1	45-135	2.62	27	
Toluene	2.46	0.0250	2.50	ND	98.4	48-130	2.26	24	
o-Xylene	2.47	0.0250	2.50	ND	98.7	43-135	0.101	27	
p,m-Xylene	5.00	0.0500	5.00	ND	100	43-135	1.30	27	
Total Xylenes	7.47	0.0250	7.50	ND	99.6	43-135	0.833	27	
Surrogate: Bromofluorobenzene	0.478		0.500		95.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			



QC Summary Data

Devon Energy	Project Name:	Cobber 21 Federal #001H	Reported:
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	9/16/2024 10:28:57AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437038-BLK1) Prepared: 09/10/24 Analyzed: 09/11/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.472		0.500		94.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

LCS (2437038-BS2) Prepared: 09/10/24 Analyzed: 09/11/24

Gasoline Range Organics (C6-C10)	53.9	20.0	50.0		108	70-130			
Surrogate: Bromofluorobenzene	0.483		0.500		96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.458		0.500		91.5	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

Matrix Spike (2437038-MS2) Source: E409070-08 Prepared: 09/10/24 Analyzed: 09/11/24

Gasoline Range Organics (C6-C10)	52.6	20.0	50.0	ND	105	70-130			
Surrogate: Bromofluorobenzene	0.483		0.500		96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			

Matrix Spike Dup (2437038-MSD2) Source: E409070-08 Prepared: 09/10/24 Analyzed: 09/11/24

Gasoline Range Organics (C6-C10)	52.8	20.0	50.0	ND	106	70-130	0.290	20	
Surrogate: Bromofluorobenzene	0.492		0.500		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.1	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			



QC Summary Data

Devon Energy	Project Name:	Cobber 21 Federal #001H	Reported:
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	9/16/2024 10:28:57AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437041-BLK1) Prepared: 09/10/24 Analyzed: 09/12/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.2		50.0		86.3	50-200			

LCS (2437041-BS1) Prepared: 09/10/24 Analyzed: 09/12/24

Diesel Range Organics (C10-C28)	184	25.0	250		73.5	38-132			
Surrogate: n-Nonane	39.9		50.0		79.8	50-200			

Matrix Spike (2437041-MS1) Source: E409067-02 Prepared: 09/10/24 Analyzed: 09/12/24

Diesel Range Organics (C10-C28)	184	25.0	250	ND	73.6	38-132			
Surrogate: n-Nonane	39.7		50.0		79.5	50-200			

Matrix Spike Dup (2437041-MSD1) Source: E409067-02 Prepared: 09/10/24 Analyzed: 09/12/24

Diesel Range Organics (C10-C28)	181	25.0	250	ND	72.5	38-132	1.41	20	
Surrogate: n-Nonane	39.6		50.0		79.1	50-200			



QC Summary Data

Devon Energy	Project Name:	Cobber 21 Federal #001H	Reported:
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	9/16/2024 10:28:57AM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437028-BLK1)					Prepared: 09/10/24 Analyzed: 09/10/24				
Chloride	ND	20.0							
LCS (2437028-BS1)					Prepared: 09/10/24 Analyzed: 09/10/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2437028-MS1)					Source: E409070-02		Prepared: 09/10/24 Analyzed: 09/10/24		
Chloride	479	20.0	250	229	100	80-120			
Matrix Spike Dup (2437028-MSD1)					Source: E409070-02		Prepared: 09/10/24 Analyzed: 09/10/24		
Chloride	478	20.0	250	229	99.5	80-120	0.247	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Devon Energy	Project Name:	Cobber 21 Federal #001H	
PO Box 6459	Project Number:	01058-0007	Reported:
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	09/16/24 10:28

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Devon				Company: Devon		Lab WO#		1D 2D 3D Std				NM CO UT TX					
Project: Cobber 21 Federal #201H				Address: 205 E Bender Road #150		E 409070		Job Number 01058-0007				X					
Project Manager: Ashley Giovengo				City, State, Zip: Hobbs NM, 88240													
Address: 3122 National Parks Hwy				Phone: (575)748-1838													
City, State, Zip: Carlsbad NM, 88220				Email: dale.woodall@dvn.com													
Phone: 575-988-0055				Miscellaneous: Dale Woodall													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
1241	9/6/2024	Soil	1	FS24 - 0.5'		1						X					
1035	9/6/2024	Soil	1	FS25 - 0.5'		2						X					
1037	9/6/2024	Soil	1	FS26 - 0.5'		3						X					
1034	9/6/2024	Soil	1	FS27 - 0.5'		4						X					
1032	9/6/2024	Soil	1	FS31 - 0.5'		5						X					
1030	9/6/2024	Soil	1	FS32 - 0.5'		6						X					
1029	9/6/2024	Soil	1	FS33 - 0.5'		7						X					
1022	9/6/2024	Soil	1	FS39 - 0.5'		8						X					
1020	9/6/2024	Soil	1	FS40 - 0.5'		9						X					
1027	9/6/2024	Soil	1	FS41 - 0.5'		10						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dvn.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Cole Burton <u>Brendon Deal</u>																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



envirotech

Client Information				Invoice Information				Lab Use Only				TAT				State												
Client: Devon				Company: Devon				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX									
Project: <u>Copper 21 Federal #001H</u>				Address: 205 E Bender Road #150				<u>E 409070</u>		<u>0658-0007</u>					<u>X</u>	<u>X</u>												
Project Manager: Ashley Giovengo				City, State, Zip: Hobbs NM, 88240				Analysis and Method												EPA Program								
Address: 3122 National Parks Hwy				Phone: (575)748-1838																SDWA			CWA			RCRA		
City, State, Zip: Carlsbad NM, 88220				Email: dale.woodall@dvn.com																Compliance			Y			or		
Phone: 575-988-0055				Miscellaneous: Dale Woodall																PWSID #								
Email: agiovengo@ensolum.com																Remarks												
Sample Information																												
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals													
1017	9/6/2024	Soil	1	FS43 - 0.5'			11						X															
1014	9/6/2024	Soil	1	FS44 - 0.5'			12						X															
1008	9/6/2024	Soil	1	FS45 - 0.5'			13						X															
1135	9/6/2024	Soil	1	FS51 - 0.5'			14						X															
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dvn.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																												
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																												
Sampled by: <u>Cole Burton</u> <u>Brandon Deal</u>																												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	<div>Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.</div> <div>Lab Use Only</div> <div>Received on ice: <u>Y</u> / N</div> <div>T1 _____ T2 _____ T3 _____</div> <div>AVG Temp °C <u>4</u></div>																				
<u>Michelle Gonzales</u>		9/9/24	1015	<u>Michelle Gonzales</u>		9-9-24	1015																					
<u>Andrew Haddo</u>		9-9-24	1630	<u>Andrew Haddo</u>		9-9-24	1645																					
<u>Andrew Haddo</u>		9-9-24	2400	<u>Andrew Haddo</u>		9-10-24	0600																					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____																												
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																												
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																												

Envirotech Analytical Laboratory

Printed: 9/10/2024 9:57:37AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Devon Energy	Date Received:	09/10/24 06:00	Work Order ID:	E409070
Phone:	(505)324-5600	Date Logged In:	09/10/24 06:07	Logged In By:	Keyliegh Hall
Email:		Due Date:	09/16/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Project Cobber 21 Federal #001H has been separated into 2 work orders. E409069 & E409070.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? No
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: N/A

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



APPENDIX E

Email Correspondence

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

QUESTIONS

Action 379955

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 379955
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM1929152027
Incident Name	NRM1929152027 COBBER 21 FEDERAL #1H @ 30-025-42311
Incident Type	Release Other
Incident Status	Initial C-141 Approved
Incident Well	[30-025-42311] COBBER 21 FEDERAL #001H

Location of Release Source	
Site Name	COBBER 21 FEDERAL #1H
Date Release Discovered	10/15/2019
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	10,952
What is the estimated number of samples that will be gathered	55
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/04/2024
Time sampling will commence	09:00 AM
 Warning: Notification can not be less than two business days prior to conducting final sampling. 	
Please provide any information necessary for observers to contact samplers	Chad Hamilton Staff Geologist 940-923-0072 Ensolum, LLC
Please provide any information necessary for navigation to sampling site	32.02181,-103.46841)

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 379955

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 379955
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
wdale	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/3/2024

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

QUESTIONS

Action 380353

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 380353
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM1929152027
Incident Name	NRM1929152027 COBBER 21 FEDERAL #1H @ 30-025-42311
Incident Type	Release Other
Incident Status	Initial C-141 Approved
Incident Well	[30-025-42311] COBBER 21 FEDERAL #001H

Location of Release Source	
Site Name	COBBER 21 FEDERAL #1H
Date Release Discovered	10/15/2019
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	10,952
What is the estimated number of samples that will be gathered	55
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/04/2024
Time sampling will commence	09:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Chad Hamilton Staff Geologist 940-923-0072 Ensolum, LLC sampling from 9/4-10/2024
Please provide any information necessary for navigation to sampling site	32.02181,-103.46841

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 380353

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 380353
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
wdale	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/4/2024

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

QUESTIONS

Action 389309

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	389309
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM1929152027
Incident Name	NRM1929152027 COBBER 21 FEDERAL #1H @ 30-025-42311
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-42311] COBBER 21 FEDERAL #001H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	COBBER 21 FEDERAL #1H
Date Release Discovered	10/15/2019
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Release Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Other Well Crude Oil Released: 10 BBL Recovered: 10 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Other Well Produced Water Released: 50 BBL Recovered: 40 BBL Lost: 10 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 389309

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	389309
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com Date: 10/02/2024

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

QUESTIONS, Page 3

Action 389309

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 389309
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	7380
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	319.8
GRO+DRO	(EPA SW-846 Method 8015M)	267
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	09/04/2024
On what date will (or did) the final sampling or liner inspection occur	09/06/2024
On what date will (or was) the remediation complete(d)	09/06/2024
What is the estimated surface area (in square feet) that will be reclaimed	10949
What is the estimated volume (in cubic yards) that will be reclaimed	340
What is the estimated surface area (in square feet) that will be remediated	10949
What is the estimated volume (in cubic yards) that will be remediated	340

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 389309

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	389309
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	OWL LANDFILL JAL [fJEG1635837366]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 10/02/2024
----------------------------------------------------	--------------------------------------------------------------------------------------------------

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 5

Action 389309

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 389309
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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

QUESTIONS, Page 6

Action 389309

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	389309
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	379955
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/04/2024
What was the (estimated) number of samples that were to be gathered	55
What was the sampling surface area in square feet	10952

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	10949
What was the total volume (cubic yards) remediated	340
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	10949
What was the total volume (in cubic yards) reclaimed	340
Summarize any additional remediation activities not included by answers (above)	see report

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 10/02/2024
----------------------------------------------------	--------------------------------------------------------------------------------------------------

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

QUESTIONS, Page 7

Action 389309

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:
	6137
	Action Number:
	389309
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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 389309

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:
	6137
	Action Number: 389309
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NRM1929152027 COBBER 21 FEDERAL #1H, thank you. This Remediation Closure Report is approved.	10/28/2024