

MEAN GREEN 23 FED 1

OCD INCIDENT nAPP2331323834

11/8/2023

<b>Spill Volume(Bbls) Calculator</b>	
<i>Inputs in blue , Outputs in red</i>	
<i>Contaminated Soil measurement</i>	
Area (square feet)	Depth(inches)
<u>3697.439</u>	<u>1.000</u>
Cubic Feet of Soil Impacted	<u>308.120</u>
Barrels of Soil Impacted	<u>54.92</u>
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	<u>8.24</u>
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	8.24
<i>Free Standing Fluid Only</i>	
Area (square feet)	Depth(inches)
<u>489.776</u>	<u>2.000</u>
Standing fluid	<u>14.551</u>
<b><u>Total fluids spilled</u></b>	<b><u>22.789</u></b>



April 5, 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  
Mean Green 23 Fed 1 Battery  
Incident Number nAPP2331323834  
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Devon Energy Production Company (Devon), has prepared this *Closure Request* to document assessment and soil sampling activities at the mean Green 23 Fed 1 Battery (Site) in Unit P, Section 23, Township 26 South, Range 34 East, in Lea County, New Mexico (Figure 1). The Site (32.0216446° N, 103.4332657° W) is associated with oil and gas exploration and production operations on Federal 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 at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, Devon is submitting this *Closure Request*, describing Site assessment and delineation activities that have occurred and requesting and requesting closure for Incident Number nAPP2331323834.

## BACKGROUND

On November 8, 2023, a vac truck operator dumped the oil tank bottoms on-pad, circled around the pad, and then drove through the spill when leaving location. Approximately 23 barrels (bbls) of crude oil was released onto the caliche pad and 14 bbls of crude oil was recovered via vac truck. Devon reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on November 8, 2023, and submitted a Release Notification Form C-141 (Form C-141) on November 9, 2023, and subsequently the release was assigned Incident Number nAPP2331323834 (Appendix A).

## 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, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

On March 5, 2024, a soil boring (New Mexico Office of the State Engineer (NMOSE) file number C-04809 POD1) was drilled 245 feet southwest of the secondary containment. Soil boring C-04809 was drilled to a depth of 102 feet below ground surface (bgs). Depth to groundwater was confirmed to be greater than 102 feet bgs as indicated on the well log and record (see Appendix B).

The closest continuously flowing or significant watercourse to the Site is a freshwater pond, located approximately 1.16 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 karst potential 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 ACTIVITIES

On January 16, 2024, Ensolum personnel visited the Site to evaluate the release extent and conducted Site assessment activities. Seven lateral assessment soil samples (SS01 through SS07) were collected around the documented release extent at ground surface. The soil samples were field screened for TPH utilizing a PetroFLAG® Soil Analyzer System and for chloride using Hach® chloride QuanTab® test strips. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted in Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as 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. The soil samples were transported under strict chain-of-custody procedures to Envirotech Analytical 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 Standard Method SM4500.

## DELINEATION ACTIVITIES

Ensolum returned to the Site on December 11, 2024, to conduct vertical delineation sampling in the impacted area on-pad. Two boreholes (BH01 and BH02) were advanced via hand auger to a terminal depth of 2-feet bgs in borehole BH01 and to 1-foot bgs in BH02, and field screened for TPH and chloride at every foot. The soil samples were handled and analyzed as previously described. Field screening results and observations from the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix D. Discrete delineation soil samples were collected at ground surface to 2-feet bgs in borehole BH01 and from ground surface to 1-foot bgs in borehole BH02 and submitted for laboratory analysis.

Devon Energy Production Company  
Closure Request  
Mean Green 23 Fed 1 Battery



## EXCAVATION ACTIVITIES

Beginning on February 20, 2024, Ensolum personnel oversaw the excavation of impacted soil on-pad. Excavation activities were performed via backhoe to depths ranging from ground surface to 1-foot bgs. To direct excavation activities, soil was field screened for TPH and chloride as previously described.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor of the excavation. The 5-point composite soil 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 FS022) were collected from the floor of the excavation at depths ranging from surface level to 1-foot bgs. Two confirmation sidewall soil samples (SW01 and SW02) were collected from the extents of the excavation area. The soil samples were handled and analyzed as previously described. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 3.

A total of approximately 200 cubic yards of soil were removed during excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal Facility in Hobbs, New Mexico. The final excavation area measured approximately 4,252 square feet.

The release remained on the well pad that is currently in operation for oil and gas production purposes. As such, the release area is not expected to be reclaimed until the oil and gas well is plugged and abandoned (P&A'd) and the well pad is reclaimed.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral assessment soil samples SS01 through SS07, collected around the release extent, indicated all COC concentrations were compliant with Site Closure Criteria and with the strictest Closure Criteria per NMOCD Table I at ground surface. Laboratory analytical results for the vertical delineation soil samples collected from boreholes BH01 and BH02 indicated concentrations of TPH exceeded the Site Closure Criteria at ground surface and that remediation of the impacted area on-pad was necessary. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix E.

Laboratory analytical results for the excavation floor soil samples (FS01 through FS22), collected at depths ranging from ground surface to 1- foot bgs, indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for the confirmation sidewall soil samples (SW01 and SW02) indicated that all COCs were in compliance with the Site Closure Criteria and with the strictest Closure Criteria per NMOCD Table I. Laboratory analytical results are summarized in Table 2 and the complete laboratory analytical reports are included as Appendix E.

## CLOSURE REQUEST

The release extent has been laterally defined by assessment soil samples SS01 through SS07 collected at ground surface and vertically defined by boreholes BH01 collected at a terminal depth of 2 feet bgs and by borehole BH02 collected at a terminal depth of 1-foot bgs. Excavation of the impacted area on-pad was completed, and excavation floor samples (FS01 through FS22) collected at depths ranging from ground surface to 1-foot ft bgs are all in compliance with the Site Closure Criteria. Confirmation sidewall soil samples at the edges of the release extent were all in compliance with the strictest Closure Criteria per NMOCD Table I.



Devon Energy Production Company  
Closure Request  
Mean Green 23 Fed 1 Battery



Based on initial response efforts, and a reported depth to groundwater greater than 102 feet bgs, Devon believes actions taken to address the November 2023 release have been protective of human health, the environment, and groundwater and as such, respectfully requests closure for Incident Number nAPP2331323834.

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

Sincerely,  
**Ensolum, LLC**

A handwritten signature in black ink, appearing to read "Ashley Giovengo".

Ashley Giovengo  
Senior Engineer

A handwritten signature in black ink, appearing to read "Daniel R. Moir".

Daniel R. Moir, PG  
Senior Managing Geologist

cc: Dale Woodall, Devon  
BLM

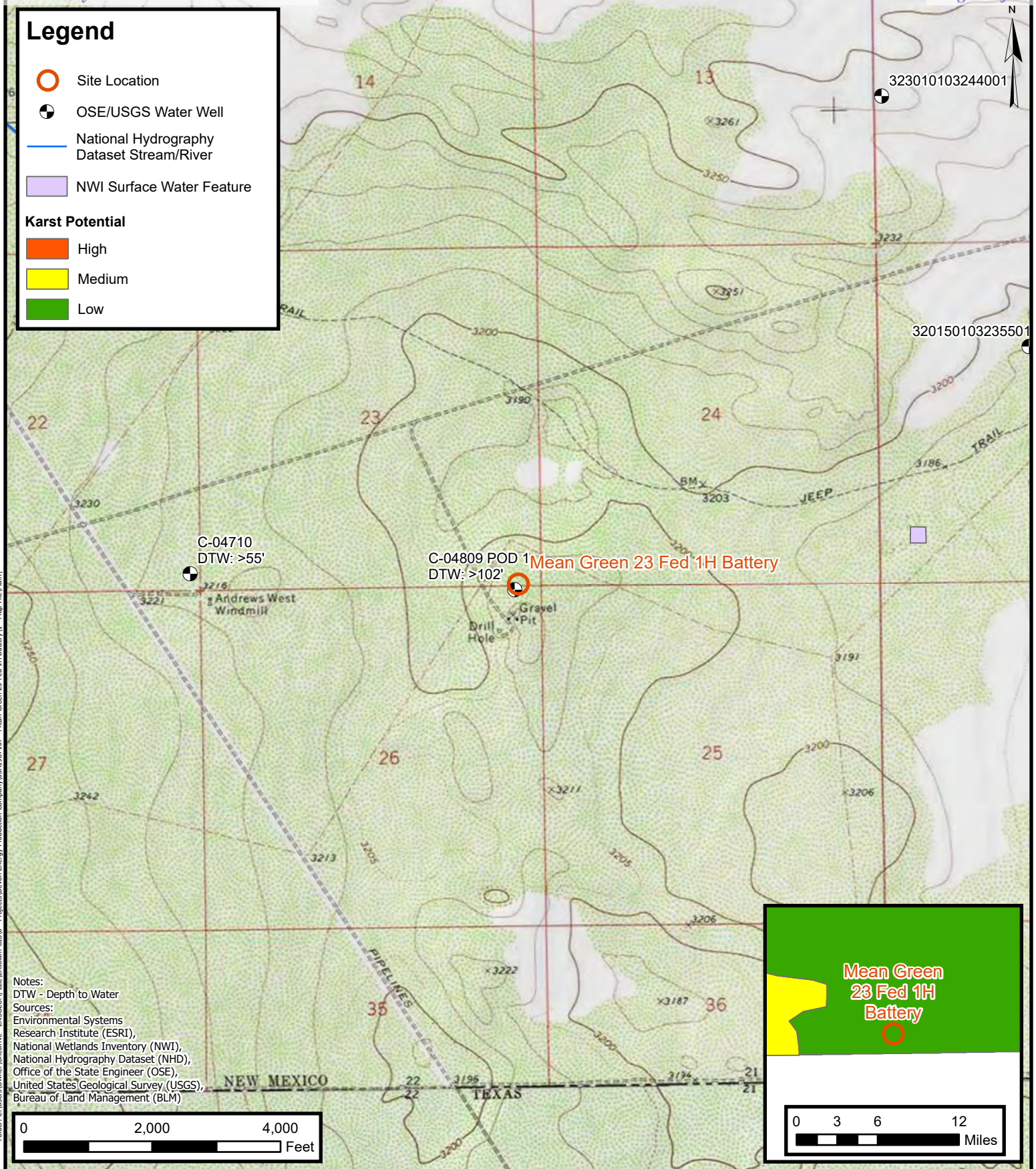
Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Form C-141
Appendix B	Well Log and Record
Appendix C	Photographic Log
Appendix D	Lithographic Soil Sampling Logs
Appendix E	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix F	Email Correspondence



FIGURES

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## Site Receptor Map

Devon Energy Production Company  
Mean Green 23 Fed 1H Battery  
Incident Number: nAPP2114741269  
Unit P, Section 23, T26S, R34E  
Eddy 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



Notes:  
 Sample ID @ Depth Below Ground Surface.  
 Samples in bold indicate sample exceeded applicable closure criteria.  
 Grey text indicate soil sample was removed during excavation activities.

0 5 10 20 30 40  
 Feet

Sources: Environmental Systems Research Institute (ESRI)



## Delineation Soil Sample Locations

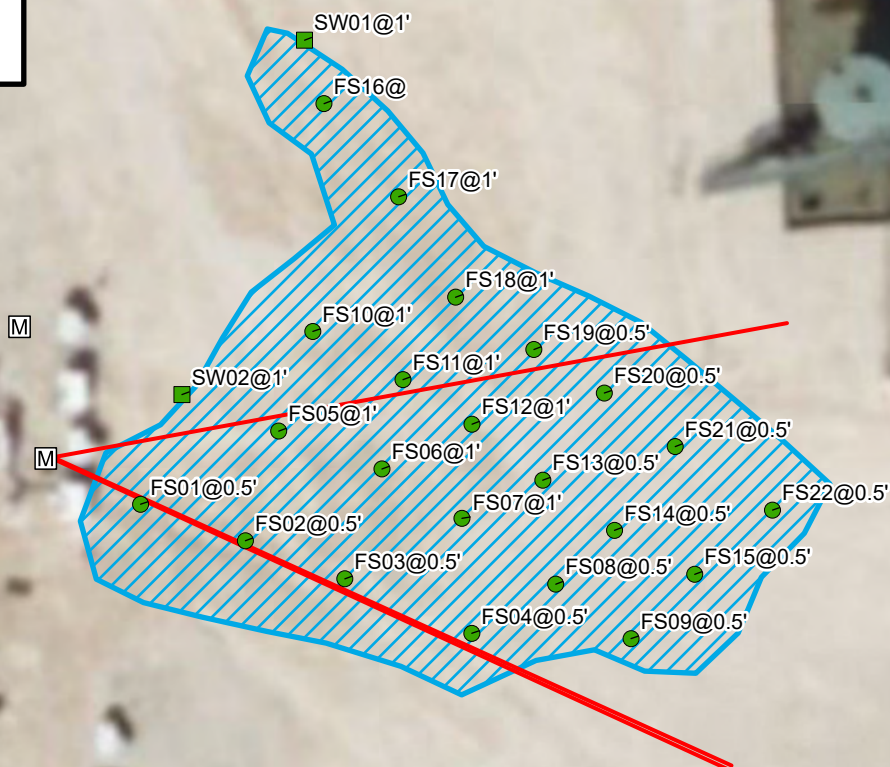
Devon Energy Production Company  
 Mean Green 23 Fed 1 Battery  
 Incident Number: nAPP2331323834  
 Unit P, Section 23, T26S, R34E  
 County, New Mexico

**FIGURE**  
**2**

Document Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\File Path Structure\3 - Carlsbad\Devon Energy Production Company\03A1987108 - Mean Green 23 Fed 1H Battery\aprx

**Legend**

- Excavation Floor Soil Sample in Compliance with Closure Criteria
- Excavation Sidewall Soil Sample in Compliance with Site Closure Criteria
- [M] Electric Box Location
- Electric Utility Line
- ▨ Excavation Extent



Notes:  
Sample ID @ Depth Below Ground Surface

0 25 50 Feet

Sources:  
Bing Maps

**Confirmation Soil Sample Locations**

Devon Energy Production Company

Mean Green 23 Fed 1 Battery

Incident Number: nAPP2331323834

Unit P, Section 23, T26S, R34E

County, New Mexico

FIGURE

3



TABLES

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**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Mean Green 23 Fed 1H Battery  
 Devon Energy Production Company  
 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)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>20,000</b>
<b>Delineation Soil Samples</b>										
SS01	11/16/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	41.7
SS02	11/16/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	48.5
SS03	11/16/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS04	11/16/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	27.2
SS05	11/16/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS06	11/16/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	437
SS07	11/16/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	55.6
BH01	12/14/2023	0	0.0314	0.346	77.9	2,650	911.0	<b>2,727.90</b>	<b>3,638.9</b>	578
BH01	12/14/2023	1	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH01	12/14/2023	2	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH02	12/14/2023	0	<0.025	<0.025	<20.0	11,200	4,700.0	<25.0	<b>15,900</b>	2,950
BH02	12/14/2023	1	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	28.5

**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

&lt;": 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**  
 Mean Green 23 Fed 1 Battery  
 Devon Energy Production Company  
 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)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Confirmation Floor Soil Samples</b>										
FS01	2/21/2024	0.5	<0.025	0.353	<20.0	473	171	473	644	83.5
FS02	2/21/2024	0.5	<0.025	0.127	<20.0	278	123	278	401	30.6
FS03	2/21/2024	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS04	2/21/2024	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	20.3
FS05	2/21/2024	1	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	704
FS06	2/21/2024	1	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	252
FS07	2/21/2024	1	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	207
FS08	2/22/2024	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	61.8
FS09	2/22/2024	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	312
FS10	2/21/2024	1	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS11	2/21/2024	1	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	205
FS12	2/21/2024	1	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	832
FS13	2/22/2024	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	112
FS14	2/22/2024	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	173
FS15	2/22/2024	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	184
FS16	2/22/2024	1	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	524
FS17	2/22/2024	1	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	61.3
FS18	2/22/2024	1	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS19	2/22/2024	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	214
FS20	2/22/2024	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	675
FS21	2/22/2024	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	616
FS22	2/22/2024	0.5	0.122	0.257	<20.0	522	218.0	<25.0	<50.0	239



**TABLE 2 - CONT'D**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Mean Green 23 Fed 1 Battery  
 Devon Energy Production Company  
 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)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Confirmation Sidewall Soil Samples</b>										
SW01	2/22/2024	1	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW02	2/22/2024	1	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	26.0

**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

&lt;: 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

Form C-141

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

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

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

Cause of Release

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

### Initial Response

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

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Dale Woodall	Title: Env. Professional
Signature: Dale Woodall	Date: _____
email: dale.woodall@dv.com	Telephone: 575-748-1838
<b><u>OCD Only</u></b>	
Received by: Shelly Wells	Date: 11/9/2023





## APPENDIX B

### Well Log and Record

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# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://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-04809		
	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	MINUTES 1	SECONDS 16.8594	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
		LONGITUDE	-103	26	0.186		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Unit P, Section 23, 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 03/05/2024	DRILLING ENDED 03/05/2024	DEPTH OF COMPLETED WELL (FT) 102	BORE HOLE DEPTH (FT) 102	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)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	102	5.00	Soil Boring	-	-	-	-

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
				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



4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	10	10		Y ✓ N	
	10	20	10	Sand, trace gravel, brown to tan, med to fine grain, nonuniform	Y ✓ N	
	20	30	10	Sand with gravel, red to tan, med to fine grain, small to large gravel	Y ✓ N	
	30	40	10	Sandy clay, med to dark brown, noncohesive, uniform	Y ✓ N	
	40	50	10	Sand, light to med brown, fine to medium grain, noncohesive, uniform	Y ✓ N	
	50	60	10	Sand, light to red, fine to med grain size, noncohesive, uniform	Y ✓ N	
	60	70	10	Sand with trace gravel, grey, mostly medium, to fine, noncohesive, nonuniform	Y ✓ N	
	70	80	10	Sandy clay, grey to med brown, fine to very fine grain size, noncohesive	Y ✓ N	
	80	90	10	Caliche, white to grey, thickly bedded, interbedded with sand	Y ✓ N	
	90	100	10	Caliche, brown to red thickly bedded, interbedded with brown to red sand	Y ✓ N	
	100	102	2	Sand with trace gravel, tan to light brown, fine to med fine grain	Y ✓ N	
	102	102	0	caliche, white to grey	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:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						
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	Digitally signed by Scott Scarborough Date: 2024.03.25 09:29:53 +06'00'	Scott Scarborough	03/25/2024		
SIGNATURE OF DRILLER / PRINT SIGNEE NAME				DATE		

FOR OSE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 04/30/2019)

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



## APPENDIX C

### Photographic Log

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# Photographic Log

Devon Energy Production Company

Mean Green 23 Fed 1 Battery

Incident Number: nAPP2331323834



Photograph 1

Date: 11/16/2023

Description: Lease Sign

View: South



Photograph 2

Date: 11/16/2023

Description: Spill extent

View: Southeast



Photograph 3

Date: 11/16/2023

Description: Spill extent

View: South



Photograph 4

Date: 11/16/2023

Description: Spill extent

View: North





### Photographic Log

Devon Energy Production Company

Mean Green 23 Fed 1 Battery

Incident Number: nAPP2331323834



Photograph 5

Date: 12/11/2023

Description: BH01

View: East



Photograph 6

Date: 12/11/2023

Description: BH01

View: West



Photograph 7

Date: 12/11/2023

Description: BH02

View: Northwest



Photograph 8

Date: 12/11/2023

Description: BH02

View: Northeast





# Photographic Log

Devon Energy Production Company

Mean Green 23 Fed 1 Battery

Incident Number: nAPP2331323834



Photograph 9

Date: 2/20/2024

Description: Excavation

View: Northeast



Photograph 10

Date: 2/20/2024

Description: Excavation

View: North



Photograph 11

Date: 2/20/2024

Description: Excavation

View: North



Photograph 12

Date: 2/20/2024

Description: Excavation

View: Northwest

**Photographic Log**

Devon Energy Production Company

Mean Green 23 Fed 1 Battery

Incident Number: nAPP2331323834



Photograph 13  
Description: Excavation  
View: South

Date: 02/21/2024



Photograph 14  
Description: Excavation  
View: Northeast

Date: 02/21/2024



Photograph 15  
Description: Excavation  
View: Northeast

Date: 02/21/2024



Photograph 16  
Description: Excavation  
View: Southeast


Date: 02/21/2024




## APPENDIX D

### Lithologic Soil Sampling Logs

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								Sample Name: BH01		Date: 12/13/2023	
								Site Name: Mean Green 23 Fed 1 Battery			
								Incident Number: nAPP233132834			
								Job Number: 03A1987108			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Ethan Haft		Method: Hand Auger	
Coordinates: 32.0220030, -103.4335772								Hole Diameter: 3"		Total Depth: 2ft bgs	
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG 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	590	NA	Y	BH01-0	0	0	GP	Pad caliche, poorly sorted, with limestone gravel.			
M	ND	18	N	BH01-1	1	1	SP-SM	Pad caliche and dark brown silt and clay, moist. Moderate sorting.			
M	ND	NA	N	BH01-2	2	2	SW-SM	Dark brown silt and clay, moderate sorting, moist.			
<b>Total Depth @ 2 ft bgs</b>											



								Sample Name: BH02		Date: 12/13/2023	
								Site Name: Mean Green 23 Fed 1 Battery			
								Incident Number: nAPP233132834			
								Job Number: 03A1987108			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Ethan Haft		Method: Hand Auger	
Coordinates: 32.0219069, -103.4336094								Hole Diameter: 3"		Total Depth: 1ft bgs	
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG 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	1300	NA	Y	BH02-0	0	0	GP	Pad caliche, poorly sorted, with limestone gravel. Stained black by oil residue, strong odor			
M	1740	18	N	BH02-0.5	0.5	0.5	SP-SM	Pad caliche and dark brown silt and clay, moist. Moderate sorting.			
M	ND	NA	N	BH02-1	1	1	SP-SM	Pad caliche and dark brown silt and clay, moist. Moderate sorting.			
Total Depth @ 1 ft bgs											



## APPENDIX E

### Laboratory Analytical Reports & Chain-of-Custody Documentation

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Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy

Project Name: Mean Green 23 Fed 1H

Work Order: E311155

Job Number: 01058-0007

Received: 11/18/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
11/29/23

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 11/29/23

Ashley Giovengo  
PO Box 6459  
Navajo Dam, NM 87419



Project Name: Mean Green 23 Fed 1H  
Workorder: E311155  
Date Received: 11/18/2023 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/18/2023 7:30:00AM, under the Project Name: Mean Green 23 Fed 1H.

The analytical test results summarized in this report with the Project Name: Mean Green 23 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto: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](mailto:ljjarboe@envirotech-inc.com)

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

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)



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Sample Summary

Devon Energy	Project Name:	Mean Green 23 Fed 1H	Reported:
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	11/29/23 16:02

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01-0'	E311155-01A	Soil	11/16/23	11/18/23	Glass Jar, 2 oz.
SS02-0'	E311155-02A	Soil	11/16/23	11/18/23	Glass Jar, 2 oz.
SS03-0'	E311155-03A	Soil	11/16/23	11/18/23	Glass Jar, 2 oz.
SS04-0'	E311155-04A	Soil	11/16/23	11/18/23	Glass Jar, 2 oz.
SS05-0'	E311155-05A	Soil	11/16/23	11/18/23	Glass Jar, 2 oz.
SS06-0'	E311155-06A	Soil	11/16/23	11/18/23	Glass Jar, 2 oz.
SS07-0'	E311155-07A	Soil	11/16/23	11/18/23	Glass Jar, 2 oz.



## Sample Data

Devon Energy PO Box 6459 Navajo Dam NM, 87419	Project Name: Mean Green 23 Fed 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	<b>Reported:</b> 11/29/2023 4:02:27PM
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SS01-0'

E311155-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
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<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2347024	
Benzene	ND	0.0250	1	11/20/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/20/23	11/22/23	
Toluene	ND	0.0250	1	11/20/23	11/22/23	
o-Xylene	ND	0.0250	1	11/20/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/20/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/20/23	11/22/23	
<i>Surrogate: Bromofluorobenzene</i>	119 %	70-130		11/20/23	11/22/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	95.3 %	70-130		11/20/23	11/22/23	
<i>Surrogate: Toluene-d8</i>	109 %	70-130		11/20/23	11/22/23	

<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2347024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/20/23	11/22/23	
<i>Surrogate: Bromofluorobenzene</i>	119 %	70-130		11/20/23	11/22/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	95.3 %	70-130		11/20/23	11/22/23	
<i>Surrogate: Toluene-d8</i>	109 %	70-130		11/20/23	11/22/23	

<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2348004	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/23	11/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/23	11/27/23	
<i>Surrogate: n-Nonane</i>	79.4 %	50-200		11/27/23	11/27/23	

<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2348014	
Chloride	41.7	20.0	1	11/27/23	11/29/23	



## Sample Data

Devon Energy	Project Name:	Mean Green 23 Fed 1H	<b>Reported:</b> 11/29/2023 4:02:27PM
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	

SS02-0'

E311155-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347024
Benzene	ND	0.0250	1	11/20/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/20/23	11/22/23	
Toluene	ND	0.0250	1	11/20/23	11/22/23	
o-Xylene	ND	0.0250	1	11/20/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/20/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/20/23	11/22/23	
Surrogate: Bromofluorobenzene		119 %	70-130	11/20/23	11/22/23	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130	11/20/23	11/22/23	
Surrogate: Toluene-d8		107 %	70-130	11/20/23	11/22/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347024
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/20/23	11/22/23	
Surrogate: Bromofluorobenzene		119 %	70-130	11/20/23	11/22/23	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130	11/20/23	11/22/23	
Surrogate: Toluene-d8		107 %	70-130	11/20/23	11/22/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2348004
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/23	11/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/23	11/27/23	
Surrogate: n-Nonane		76.7 %	50-200	11/27/23	11/27/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348014
Chloride	48.5	20.0	1	11/27/23	11/29/23	





Sample Data

Devon Energy	Project Name:	Mean Green 23 Fed 1H	Reported: 11/29/2023 4:02:27PM
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	

SS03-0'

E311155-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347024
Benzene	ND	0.0250	1	11/20/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/20/23	11/22/23	
Toluene	ND	0.0250	1	11/20/23	11/22/23	
o-Xylene	ND	0.0250	1	11/20/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/20/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/20/23	11/22/23	
Surrogate: Bromofluorobenzene		117 %	70-130	11/20/23	11/22/23	
Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-130	11/20/23	11/22/23	
Surrogate: Toluene-d8		107 %	70-130	11/20/23	11/22/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347024
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/20/23	11/22/23	
Surrogate: Bromofluorobenzene		117 %	70-130	11/20/23	11/22/23	
Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-130	11/20/23	11/22/23	
Surrogate: Toluene-d8		107 %	70-130	11/20/23	11/22/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2348004
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/23	11/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/23	11/27/23	
Surrogate: n-Nonane		76.5 %	50-200	11/27/23	11/27/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348014
Chloride	ND	20.0	1	11/27/23	11/29/23	



Sample Data

Devon Energy	Project Name:	Mean Green 23 Fed 1H	Reported: 11/29/2023 4:02:27PM
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	

SS04-0'

E311155-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347024
Benzene	ND	0.0250	1	11/20/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/20/23	11/22/23	
Toluene	ND	0.0250	1	11/20/23	11/22/23	
o-Xylene	ND	0.0250	1	11/20/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/20/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/20/23	11/22/23	
Surrogate: Bromofluorobenzene		116 %	70-130	11/20/23	11/22/23	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	11/20/23	11/22/23	
Surrogate: Toluene-d8		108 %	70-130	11/20/23	11/22/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347024
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/20/23	11/22/23	
Surrogate: Bromofluorobenzene		116 %	70-130	11/20/23	11/22/23	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	11/20/23	11/22/23	
Surrogate: Toluene-d8		108 %	70-130	11/20/23	11/22/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2348004
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/23	11/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/23	11/27/23	
Surrogate: n-Nonane		70.4 %	50-200	11/27/23	11/27/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348014
Chloride	27.2	20.0	1	11/27/23	11/29/23	



Sample Data

Devon Energy	Project Name:	Mean Green 23 Fed 1H	Reported: 11/29/2023 4:02:27PM
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	

SS05-0'

E311155-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2347024	
Benzene	ND	0.0250	1	11/20/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/20/23	11/22/23	
Toluene	ND	0.0250	1	11/20/23	11/22/23	
o-Xylene	ND	0.0250	1	11/20/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/20/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/20/23	11/22/23	
Surrogate: Bromofluorobenzene		116 %	70-130	11/20/23	11/22/23	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	11/20/23	11/22/23	
Surrogate: Toluene-d8		108 %	70-130	11/20/23	11/22/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2347024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/20/23	11/22/23	
Surrogate: Bromofluorobenzene		116 %	70-130	11/20/23	11/22/23	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	11/20/23	11/22/23	
Surrogate: Toluene-d8		108 %	70-130	11/20/23	11/22/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2348004	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/23	11/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/23	11/27/23	
Surrogate: n-Nonane		75.9 %	50-200	11/27/23	11/27/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2348014	
Chloride	ND	20.0	1	11/27/23	11/29/23	



Sample Data

Devon Energy	Project Name:	Mean Green 23 Fed 1H	Reported: 11/29/2023 4:02:27PM
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	

SS06-0'

E311155-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347024
Benzene	ND	0.0250	1	11/20/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/20/23	11/22/23	
Toluene	ND	0.0250	1	11/20/23	11/22/23	
o-Xylene	ND	0.0250	1	11/20/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/20/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/20/23	11/22/23	
Surrogate: Bromofluorobenzene		120 %	70-130	11/20/23	11/22/23	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	11/20/23	11/22/23	
Surrogate: Toluene-d8		109 %	70-130	11/20/23	11/22/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347024
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/20/23	11/22/23	
Surrogate: Bromofluorobenzene		120 %	70-130	11/20/23	11/22/23	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	11/20/23	11/22/23	
Surrogate: Toluene-d8		109 %	70-130	11/20/23	11/22/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2348004
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/23	11/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/23	11/27/23	
Surrogate: n-Nonane		75.7 %	50-200	11/27/23	11/27/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348014
Chloride	437	20.0	1	11/27/23	11/29/23	





Sample Data

Devon Energy	Project Name:	Mean Green 23 Fed 1H	Reported: 11/29/2023 4:02:27PM
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	

SS07-0'

E311155-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347024
Benzene	ND	0.0250	1	11/20/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/20/23	11/22/23	
Toluene	ND	0.0250	1	11/20/23	11/22/23	
o-Xylene	ND	0.0250	1	11/20/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/20/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/20/23	11/22/23	
Surrogate: Bromofluorobenzene		115 %	70-130	11/20/23	11/22/23	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130	11/20/23	11/22/23	
Surrogate: Toluene-d8		108 %	70-130	11/20/23	11/22/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347024
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/20/23	11/22/23	
Surrogate: Bromofluorobenzene		115 %	70-130	11/20/23	11/22/23	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130	11/20/23	11/22/23	
Surrogate: Toluene-d8		108 %	70-130	11/20/23	11/22/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2348004
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/23	11/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/23	11/27/23	
Surrogate: n-Nonane		70.6 %	50-200	11/27/23	11/27/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348014
Chloride	55.6	20.0	1	11/27/23	11/29/23	



QC Summary Data

Devon Energy	Project Name:	Mean Green 23 Fed 1H	Reported:
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	11/29/2023 4:02:27PM

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 (2347024-BLK1) Prepared: 11/20/23 Analyzed: 11/22/23

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	0.571		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		91.9	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

LCS (2347024-BS1) Prepared: 11/20/23 Analyzed: 11/22/23

Benzene	2.68	0.0250	2.50		107	70-130			
Ethylbenzene	2.75	0.0250	2.50		110	70-130			
Toluene	2.67	0.0250	2.50		107	70-130			
o-Xylene	2.69	0.0250	2.50		107	70-130			
p,m-Xylene	5.40	0.0500	5.00		108	70-130			
Total Xylenes	8.09	0.0250	7.50		108	70-130			
Surrogate: Bromofluorobenzene	0.594		0.500		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

Matrix Spike (2347024-MS1) Source: E311147-10 Prepared: 11/20/23 Analyzed: 11/22/23

Benzene	2.63	0.0250	2.50	ND	105	48-131			
Ethylbenzene	2.71	0.0250	2.50	ND	108	45-135			
Toluene	2.63	0.0250	2.50	ND	105	48-130			
o-Xylene	2.73	0.0250	2.50	ND	109	43-135			
p,m-Xylene	5.49	0.0500	5.00	ND	110	43-135			
Total Xylenes	8.22	0.0250	7.50	ND	110	43-135			
Surrogate: Bromofluorobenzene	0.610		0.500		122	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.2	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			

Matrix Spike Dup (2347024-MSD1) Source: E311147-10 Prepared: 11/20/23 Analyzed: 11/22/23

Benzene	2.66	0.0250	2.50	ND	106	48-131	0.926	23	
Ethylbenzene	2.82	0.0250	2.50	ND	113	45-135	4.23	27	
Toluene	2.74	0.0250	2.50	ND	109	48-130	3.84	24	
o-Xylene	2.87	0.0250	2.50	ND	115	43-135	4.94	27	
p,m-Xylene	5.81	0.0500	5.00	ND	116	43-135	5.61	27	
Total Xylenes	8.68	0.0250	7.50	ND	116	43-135	5.39	27	
Surrogate: Bromofluorobenzene	0.619		0.500		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.452		0.500		90.3	70-130			
Surrogate: Toluene-d8	0.560		0.500		112	70-130			



QC Summary Data

Devon Energy	Project Name:	Mean Green 23 Fed 1H	Reported:  11/29/2023 4:02:27PM
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	

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
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Blank (2347024-BLK1) Prepared: 11/20/23 Analyzed: 11/22/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.571		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		91.9	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

LCS (2347024-BS2) Prepared: 11/20/23 Analyzed: 11/22/23

Gasoline Range Organics (C6-C10)	57.1	20.0	50.0		114	70-130			
Surrogate: Bromofluorobenzene	0.585		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.447		0.500		89.4	70-130			
Surrogate: Toluene-d8	0.565		0.500		113	70-130			

Matrix Spike (2347024-MS2) Source: E311147-10 Prepared: 11/20/23 Analyzed: 11/22/23

Gasoline Range Organics (C6-C10)	60.0	20.0	50.0	ND	120	70-130			
Surrogate: Bromofluorobenzene	0.604		0.500		121	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.451		0.500		90.1	70-130			
Surrogate: Toluene-d8	0.559		0.500		112	70-130			

Matrix Spike Dup (2347024-MSD2) Source: E311147-10 Prepared: 11/20/23 Analyzed: 11/22/23

Gasoline Range Organics (C6-C10)	58.9	20.0	50.0	ND	118	70-130	1.89	20	
Surrogate: Bromofluorobenzene	0.609		0.500		122	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.458		0.500		91.5	70-130			
Surrogate: Toluene-d8	0.560		0.500		112	70-130			



QC Summary Data

Devon Energy	Project Name:	Mean Green 23 Fed 1H	Reported:
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	11/29/2023 4:02:27PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2348004-BLK1)					Prepared: 11/27/23 Analyzed: 11/27/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	39.4		50.0		78.9	50-200			

LCS (2348004-BS1)					Prepared: 11/27/23 Analyzed: 11/27/23				
Diesel Range Organics (C10-C28)	228	25.0	250		91.4	38-132			
Surrogate: n-Nonane	40.9		50.0		81.8	50-200			

Matrix Spike (2348004-MS1)					Source: E311155-05		Prepared: 11/27/23 Analyzed: 11/27/23		
Diesel Range Organics (C10-C28)	245	25.0	250	ND	97.9	38-132			
Surrogate: n-Nonane	42.3		50.0		84.7	50-200			

Matrix Spike Dup (2348004-MSD1)					Source: E311155-05		Prepared: 11/27/23 Analyzed: 11/27/23		
Diesel Range Organics (C10-C28)	242	25.0	250	ND	96.7	38-132	1.28	20	
Surrogate: n-Nonane	43.8		50.0		87.6	50-200			





QC Summary Data

Devon Energy	Project Name:	Mean Green 23 Fed 1H	Reported:
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	11/29/2023 4:02:27PM

Anions by EPA 300.0/9056A

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 (2348014-BLK1)					Prepared: 11/27/23 Analyzed: 11/29/23				
Chloride	ND	20.0							
LCS (2348014-BS1)					Prepared: 11/27/23 Analyzed: 11/29/23				
Chloride	249	20.0	250		99.7	90-110			
Matrix Spike (2348014-MS1)					Source: E311145-02		Prepared: 11/27/23 Analyzed: 11/29/23		
Chloride	264	20.0	250	ND	105	80-120			
Matrix Spike Dup (2348014-MSD1)					Source: E311145-02		Prepared: 11/27/23 Analyzed: 11/29/23		
Chloride	266	20.0	250	ND	106	80-120	0.895	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:	Mean Green 23 Fed 1H	
PO Box 6459	Project Number:	01058-0007	Reported:
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	11/29/23 16:02

- 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 Energy		Bill To		Lab Use Only		TAT		EPA Program					
Project: Mean Green 23 Fed 1H		Attention: Dale Woodall		Lab WO# E311155		Job Number 01058-0007		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: 5315 Buena Vista Dr									X		
Address: 3122 National Parks Hwy		City, State, Zip: Carlsbad NM, 88220											RCRA
City, State, Zip: Carlsbad NM, 88220		Phone: (575)689-7597											
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	GDOC TX	Remarks
14:28	11/16/2023	Soil	1	SS01 - 0'	1						X		
14:29	11/16/2023	Soil	1	SS02 - 0'	2						X		
14:30	11/16/2023	Soil	1	SS03 - 0'	3						X		
15:06	11/16/2023	Soil	1	SS04 - 0'	4						X		
14:42	11/16/2023	Soil	1	SS05 - 0'	5						X		
14:44	11/16/2023	Soil	1	SS06 - 0'	6						X		
15:21	11/16/2023	Soil	1	SS07 - 0'	7						X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, Dale.woodall@dvn.com, chamilton@ensolum.com, ehafft@ensolum.com - kept on ice

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: Ethan Haft

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 5 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	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	Time	Received by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Ethan Haft</i>	11/17/23	0700	<i>Dale Woodall</i>	11-17-23	1015	
<i>Michelle Gayle</i>	11-17-23	1700	<i>John Massa</i>	11-17-23	1800	
<i>John Massa</i>	11-17-23	2400	<i>Chris</i>	11-18-23	730	

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 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: 11/20/2023 10:32:09AM

## 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:	11/18/23 07:30	Work Order ID:	E311155
Phone:	(505)324-5600	Date Logged In:	11/17/23 15:15	Logged In By:	Jordan Montano
Email:		Due Date:	11/29/23 17:00 (5 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: CourComments/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? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: Mean Green 23 Fed 1H

Work Order: E312084

Job Number: 01058-0007

Received: 12/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
12/19/23

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: 12/19/23

Ashley Giovengo  
6488 7 Rivers Hwy  
Artesia, NM 88210



Project Name: Mean Green 23 Fed 1H  
Workorder: E312084  
Date Received: 12/13/2023 1:00:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/13/2023 1:00:00PM, under the Project Name: Mean Green 23 Fed 1H.

The analytical test results summarized in this report with the Project Name: Mean Green 23 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto: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](mailto:ljjarboe@envirotech-inc.com)

**Michelle Golzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Mean Green 23 Fed 1H	Reported: 12/19/23 15:37
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
BH01-0'	E312084-01A	Soil	12/11/23	12/13/23	Glass Jar, 2 oz.
BH01-1'	E312084-02A	Soil	12/11/23	12/13/23	Glass Jar, 2 oz.
BH01-2'	E312084-03A	Soil	12/11/23	12/13/23	Glass Jar, 2 oz.
BH02-0'	E312084-04A	Soil	12/11/23	12/13/23	Glass Jar, 2 oz.
BH02-1'	E312084-05A	Soil	12/11/23	12/13/23	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 12/19/2023 3:37:27PM
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BH01-0'

E312084-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2350076	
Benzene	0.0314	0.0250	1	12/14/23	12/17/23	
Ethylbenzene	0.346	0.0250	1	12/14/23	12/17/23	
Toluene	0.332	0.0250	1	12/14/23	12/17/23	
o-Xylene	1.16	0.0250	1	12/14/23	12/17/23	
p,m-Xylene	2.51	0.0500	1	12/14/23	12/17/23	
Total Xylenes	3.67	0.0250	1	12/14/23	12/17/23	
Surrogate: 4-Bromochlorobenzene-PID	91.9 %	70-130		12/14/23	12/17/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2350076	
Gasoline Range Organics (C6-C10)	77.9	20.0	1	12/14/23	12/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	99.2 %	70-130		12/14/23	12/17/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2350073	
Diesel Range Organics (C10-C28)	2650	125	5	12/14/23	12/16/23	
Oil Range Organics (C28-C36)	911	250	5	12/14/23	12/16/23	
Surrogate: n-Nonane	99.3 %	50-200		12/14/23	12/16/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2350088	
Chloride	578	20.0	1	12/14/23	12/14/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 12/19/2023 3:37:27PM
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BH01-1'

E312084-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2350076	
Benzene	ND	0.0250	1	12/14/23	12/17/23	
Ethylbenzene	ND	0.0250	1	12/14/23	12/17/23	
Toluene	ND	0.0250	1	12/14/23	12/17/23	
o-Xylene	ND	0.0250	1	12/14/23	12/17/23	
p,m-Xylene	ND	0.0500	1	12/14/23	12/17/23	
Total Xylenes	ND	0.0250	1	12/14/23	12/17/23	
Surrogate: 4-Bromochlorobenzene-PID	81.3 %	70-130		12/14/23	12/17/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2350076	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/14/23	12/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.0 %	70-130		12/14/23	12/17/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2350073	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/14/23	12/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/14/23	12/16/23	
Surrogate: n-Nonane	84.8 %	50-200		12/14/23	12/16/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2350088	
Chloride	ND	20.0	1	12/14/23	12/14/23	





Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 12/19/2023 3:37:27PM
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BH01-2'

E312084-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2350076	
Benzene	ND	0.0250	1	12/14/23	12/17/23	
Ethylbenzene	ND	0.0250	1	12/14/23	12/17/23	
Toluene	ND	0.0250	1	12/14/23	12/17/23	
o-Xylene	ND	0.0250	1	12/14/23	12/17/23	
p,m-Xylene	ND	0.0500	1	12/14/23	12/17/23	
Total Xylenes	ND	0.0250	1	12/14/23	12/17/23	
Surrogate: 4-Bromochlorobenzene-PID	80.3 %	70-130		12/14/23	12/17/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2350076	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/14/23	12/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.3 %	70-130		12/14/23	12/17/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2350073	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/14/23	12/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/14/23	12/16/23	
Surrogate: n-Nonane	83.0 %	50-200		12/14/23	12/16/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2350088	
Chloride	ND	20.0	1	12/14/23	12/14/23	



## Sample Data

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

Project Name: Mean Green 23 Fed 1H  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
12/19/2023 3:37:27PM

BH02-0'

E312084-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2350076
Benzene	ND	0.0250	1	12/14/23	12/17/23	
Ethylbenzene	ND	0.0250	1	12/14/23	12/17/23	
Toluene	ND	0.0250	1	12/14/23	12/17/23	
o-Xylene	ND	0.0250	1	12/14/23	12/17/23	
p,m-Xylene	ND	0.0500	1	12/14/23	12/17/23	
Total Xylenes	ND	0.0250	1	12/14/23	12/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	80.5 %	70-130		12/14/23	12/17/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2350076
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/14/23	12/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.1 %	70-130		12/14/23	12/17/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2350073
Diesel Range Organics (C10-C28)	11200	125	5	12/14/23	12/16/23	
Oil Range Organics (C28-C36)	4700	250	5	12/14/23	12/16/23	
<i>Surrogate: n-Nonane</i>						
	143 %	50-200		12/14/23	12/16/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2350088
Chloride	2950	40.0	2	12/14/23	12/14/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 12/19/2023 3:37:27PM
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BH02-1'

E312084-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2350076	
Benzene	ND	0.0250	1	12/14/23	12/17/23	
Ethylbenzene	ND	0.0250	1	12/14/23	12/17/23	
Toluene	ND	0.0250	1	12/14/23	12/17/23	
o-Xylene	ND	0.0250	1	12/14/23	12/17/23	
p,m-Xylene	ND	0.0500	1	12/14/23	12/17/23	
Total Xylenes	ND	0.0250	1	12/14/23	12/17/23	
Surrogate: 4-Bromochlorobenzene-PID	80.8 %	70-130		12/14/23	12/17/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2350076	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/14/23	12/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.4 %	70-130		12/14/23	12/17/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2350073	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/14/23	12/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/14/23	12/18/23	
Surrogate: n-Nonane	82.5 %	50-200		12/14/23	12/18/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2350088	
Chloride	28.5	20.0	1	12/14/23	12/15/23	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mean Green 23 Fed 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	12/19/2023 3:37:27PM

Volatile Organics by EPA 8021B

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 (2350076-BLK1) Prepared: 12/14/23 Analyzed: 12/15/23

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	7.64		8.00		95.5	70-130			

LCS (2350076-BS1) Prepared: 12/14/23 Analyzed: 12/15/23

Benzene	4.90	0.0250	5.00		98.0	70-130			
Ethylbenzene	4.72	0.0250	5.00		94.4	70-130			
Toluene	4.90	0.0250	5.00		98.0	70-130			
o-Xylene	4.83	0.0250	5.00		96.7	70-130			
p,m-Xylene	9.76	0.0500	10.0		97.6	70-130			
Total Xylenes	14.6	0.0250	15.0		97.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.72		8.00		96.5	70-130			

Matrix Spike (2350076-MS1) Source: E312087-02 Prepared: 12/14/23 Analyzed: 12/19/23

Benzene	5.00	0.0250	5.00	ND	99.9	54-133			
Ethylbenzene	4.85	0.0250	5.00	ND	97.0	61-133			
Toluene	5.02	0.0250	5.00	ND	100	61-130			
o-Xylene	4.96	0.0250	5.00	ND	99.1	63-131			
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131			
Total Xylenes	15.0	0.0250	15.0	ND	99.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.2	70-130			

Matrix Spike Dup (2350076-MSD1) Source: E312087-02 Prepared: 12/14/23 Analyzed: 12/17/23

Benzene	4.99	0.0250	5.00	ND	99.7	54-133	0.217	20	
Ethylbenzene	4.73	0.0250	5.00	ND	94.6	61-133	2.49	20	
Toluene	4.96	0.0250	5.00	ND	99.2	61-130	1.21	20	
o-Xylene	4.80	0.0250	5.00	ND	96.0	63-131	3.25	20	
p,m-Xylene	9.73	0.0500	10.0	ND	97.3	63-131	3.05	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.9	63-131	3.12	20	
Surrogate: 4-Bromochlorobenzene-PID	6.15		8.00		76.9	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mean Green 23 Fed 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	12/19/2023 3:37:27PM

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
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Blank (2350076-BLK1) Prepared: 12/14/23 Analyzed: 12/15/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.97		8.00		87.2	70-130			

LCS (2350076-BS2) Prepared: 12/14/23 Analyzed: 12/19/23

Gasoline Range Organics (C6-C10)	47.4	20.0	50.0		94.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.09		8.00		88.6	70-130			

Matrix Spike (2350076-MS2) Source: E312087-02 Prepared: 12/14/23 Analyzed: 12/17/23

Gasoline Range Organics (C6-C10)	40.5	20.0	50.0	ND	81.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.6	70-130			

Matrix Spike Dup (2350076-MSD2) Source: E312087-02 Prepared: 12/14/23 Analyzed: 12/17/23

Gasoline Range Organics (C6-C10)	40.9	20.0	50.0	ND	81.8	70-130	0.891	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.09		8.00		88.6	70-130			





QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mean Green 23 Fed 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	12/19/2023 3:37:27PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2350073-BLK1)					Prepared: 12/14/23 Analyzed: 12/15/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			

LCS (2350073-BS1)					Prepared: 12/14/23 Analyzed: 12/15/23				
Diesel Range Organics (C10-C28)	233	25.0	250		93.3	38-132			
Surrogate: n-Nonane	44.2		50.0		88.3	50-200			

Matrix Spike (2350073-MS1)					Source: E312047-03		Prepared: 12/14/23 Analyzed: 12/15/23		
Diesel Range Organics (C10-C28)	229	25.0	250	ND	91.6	38-132			
Surrogate: n-Nonane	43.8		50.0		87.5	50-200			

Matrix Spike Dup (2350073-MSD1)					Source: E312047-03		Prepared: 12/14/23 Analyzed: 12/15/23		
Diesel Range Organics (C10-C28)	219	25.0	250	ND	87.8	38-132	4.26	20	
Surrogate: n-Nonane	42.8		50.0		85.5	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mean Green 23 Fed 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	12/19/2023 3:37:27PM

Anions by EPA 300.0/9056A

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 (2350088-BLK1)					Prepared: 12/14/23 Analyzed: 12/14/23				
Chloride	ND	20.0							
LCS (2350088-BS1)					Prepared: 12/14/23 Analyzed: 12/14/23				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2350088-MS1)					Source: E312095-23		Prepared: 12/14/23 Analyzed: 12/14/23		
Chloride	255	20.0	250	ND	102	80-120			
Matrix Spike Dup (2350088-MSD1)					Source: E312095-23		Prepared: 12/14/23 Analyzed: 12/14/23		
Chloride	254	20.0	250	ND	102	80-120	0.187	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:	Mean Green 23 Fed 1H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	12/19/23 15:37

- 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 Energy					Bill To			Lab Use Only				TAT				EPA Program						
Project: Mean Green 23 Fed 1H					Attention: Dale Woodall			Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Ashley Giovengo					Address: 205 E Bender Rd #150			E312084		01658-0007					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			TPH GRO/DRO/ORO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC NM		GDOC TX	State					
Phone: 575-988-0055					Email: Dale.woodall@dv.com												NM	CO	UT	AZ	TX	
Email: agiovengo@ensolum.com								x														
Report due by:																		Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																	
9:38	12/11/2023	Soil	1	BH01 - 0'	1										X							
9:45	12/11/2023	Soil	1	BH01 -1'	2										X							
9:47	12/11/2023	Soil	1	BH01 - 2'	3										X							
9:36	12/11/2023	Soil	1	BH02 - 0'	4										X							
9:44	12/11/2023	Soil	1	BH02- 1'	5										X							
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dv.com, chamilton@ensolum.com, ehft@ensolum.com - KEPT ON ICE																						
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.												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.										
Sampled by: Ethan Haft																						
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only														
Ethan Haft		12/12/23	0700	Michelle Gayle		12/12/23	1105	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														
Michelle Gayle		12-12-23	1545	Alicia		12/13/23	1300															
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C 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 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: 12/13/2023 3:36:06PM

## 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:	12/13/23 13:00	Work Order ID:	E312084
Phone:	(575) 748-0176	Date Logged In:	12/12/23 13:58	Logged In By:	Jordan Montano
Email:		Due Date:	12/19/23 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: Courier**Comments/Resolution****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 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 - Carlsbad

Project Name: Mean Green 23 Fed1H Battery

Work Order: E402220

Job Number: 01058-0007

Received: 2/23/2024

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
2/29/24

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.  
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.



Date Reported: 2/29/24

Ashley Giovengo  
6488 7 Rivers Hwy  
Artesia, NM 88210



Project Name: Mean Green 23 Fed1H Battery  
Workorder: E402220  
Date Received: 2/23/2024 5:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/23/2024 5:30:00AM, under the Project Name: Mean Green 23 Fed1H Battery.

The analytical test results summarized in this report with the Project Name: Mean Green 23 Fed1H Battery 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto: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](mailto:ljjarboe@envirotech-inc.com)

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

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Mean Green 23 Fed1H Battery	Reported: 02/29/24 17:10
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
FS01 -0.5'	E402220-01A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.
FS02 -0.5'	E402220-02A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.
FS03 -0.5'	E402220-03A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.
FS04 -0.5'	E402220-04A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.
FS05 -1'	E402220-05A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.
FS06 -1'	E402220-06A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.
FS07 -1'	E402220-07A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.
FS10 -1'	E402220-08A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.
FS11 -1'	E402220-09A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.
FS12 -1'	E402220-10A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed1H Battery Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 2/29/2024 5:10:06PM
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FS01 -0.5'

E402220-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2408081	
Benzene	ND	0.0250	1	02/23/24	02/28/24	
Ethylbenzene	ND	0.0250	1	02/23/24	02/28/24	
Toluene	ND	0.0250	1	02/23/24	02/28/24	
o-Xylene	0.0537	0.0250	1	02/23/24	02/28/24	
p,m-Xylene	0.299	0.0500	1	02/23/24	02/28/24	
Total Xylenes	0.353	0.0250	1	02/23/24	02/28/24	
Surrogate: 4-Bromochlorobenzene-PID	96.6 %	70-130		02/23/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2408081	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/23/24	02/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.9 %	70-130		02/23/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2409005	
Diesel Range Organics (C10-C28)	473	25.0	1	02/26/24	02/26/24	
Oil Range Organics (C28-C36)	171	50.0	1	02/26/24	02/26/24	
Surrogate: n-Nonane	103 %	50-200		02/26/24	02/26/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2408089	
Chloride	83.5	20.0	1	02/23/24	02/26/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed1H Battery Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 2/29/2024 5:10:06PM
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FS02 -0.5'

E402220-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2408081	
Benzene	ND	0.0250	1	02/23/24	02/28/24	
Ethylbenzene	ND	0.0250	1	02/23/24	02/28/24	
Toluene	ND	0.0250	1	02/23/24	02/28/24	
o-Xylene	0.0262	0.0250	1	02/23/24	02/28/24	
p,m-Xylene	0.101	0.0500	1	02/23/24	02/28/24	
Total Xylenes	0.127	0.0250	1	02/23/24	02/28/24	
Surrogate: 4-Bromochlorobenzene-PID	95.9 %	70-130		02/23/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2408081	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/23/24	02/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.7 %	70-130		02/23/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2409005	
Diesel Range Organics (C10-C28)	278	25.0	1	02/26/24	02/27/24	
Oil Range Organics (C28-C36)	123	50.0	1	02/26/24	02/27/24	
Surrogate: n-Nonane	98.0 %	50-200		02/26/24	02/27/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2408089	
Chloride	30.6	20.0	1	02/23/24	02/26/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed1H Battery Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 2/29/2024 5:10:06PM
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FS03 -0.5'

E402220-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2408081	
Benzene	ND	0.0250	1	02/23/24	02/28/24	
Ethylbenzene	ND	0.0250	1	02/23/24	02/28/24	
Toluene	ND	0.0250	1	02/23/24	02/28/24	
o-Xylene	ND	0.0250	1	02/23/24	02/28/24	
p,m-Xylene	ND	0.0500	1	02/23/24	02/28/24	
Total Xylenes	ND	0.0250	1	02/23/24	02/28/24	
Surrogate: 4-Bromochlorobenzene-PID	90.3 %	70-130		02/23/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2408081	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/23/24	02/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.0 %	70-130		02/23/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2409005	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/24	02/27/24	
Surrogate: n-Nonane	101 %	50-200		02/26/24	02/27/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2408089	
Chloride	ND	20.0	1	02/23/24	02/26/24	





Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed1H Battery Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 2/29/2024 5:10:06PM
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FS04 -0.5'

E402220-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2408081	
Benzene	ND	0.0250	1	02/23/24	02/28/24	
Ethylbenzene	ND	0.0250	1	02/23/24	02/28/24	
Toluene	ND	0.0250	1	02/23/24	02/28/24	
o-Xylene	ND	0.0250	1	02/23/24	02/28/24	
p,m-Xylene	ND	0.0500	1	02/23/24	02/28/24	
Total Xylenes	ND	0.0250	1	02/23/24	02/28/24	
Surrogate: 4-Bromochlorobenzene-PID	88.4 %	70-130		02/23/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2408081	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/23/24	02/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.7 %	70-130		02/23/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2409005	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/24	02/27/24	
Surrogate: n-Nonane	103 %	50-200		02/26/24	02/27/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2408089	
Chloride	20.3	20.0	1	02/23/24	02/26/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed1H Battery Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 2/29/2024 5:10:06PM
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FS05 -1'

E402220-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2408081	
Benzene	ND	0.0250	1	02/23/24	02/28/24	
Ethylbenzene	ND	0.0250	1	02/23/24	02/28/24	
Toluene	ND	0.0250	1	02/23/24	02/28/24	
o-Xylene	ND	0.0250	1	02/23/24	02/28/24	
p,m-Xylene	ND	0.0500	1	02/23/24	02/28/24	
Total Xylenes	ND	0.0250	1	02/23/24	02/28/24	
Surrogate: 4-Bromochlorobenzene-PID	89.9 %	70-130		02/23/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2408081	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/23/24	02/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.4 %	70-130		02/23/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2409005	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/24	02/27/24	
Surrogate: n-Nonane	104 %	50-200		02/26/24	02/27/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2408089	
Chloride	704	20.0	1	02/23/24	02/26/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed1H Battery Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 2/29/2024 5:10:06PM
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FS06 -1'

E402220-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2408081	
Benzene	ND	0.0250	1	02/23/24	02/28/24	
Ethylbenzene	ND	0.0250	1	02/23/24	02/28/24	
Toluene	ND	0.0250	1	02/23/24	02/28/24	
o-Xylene	ND	0.0250	1	02/23/24	02/28/24	
p,m-Xylene	ND	0.0500	1	02/23/24	02/28/24	
Total Xylenes	ND	0.0250	1	02/23/24	02/28/24	
Surrogate: 4-Bromochlorobenzene-PID	96.8 %	70-130		02/23/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2408081	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/23/24	02/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.7 %	70-130		02/23/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2409005	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/24	02/27/24	
Surrogate: n-Nonane	106 %	50-200		02/26/24	02/27/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2408089	
Chloride	252	20.0	1	02/23/24	02/26/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed1H Battery Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 2/29/2024 5:10:06PM
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FS07 -1'

E402220-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2408081	
Benzene	ND	0.0250	1	02/23/24	02/28/24	
Ethylbenzene	ND	0.0250	1	02/23/24	02/28/24	
Toluene	ND	0.0250	1	02/23/24	02/28/24	
o-Xylene	ND	0.0250	1	02/23/24	02/28/24	
p,m-Xylene	ND	0.0500	1	02/23/24	02/28/24	
Total Xylenes	ND	0.0250	1	02/23/24	02/28/24	
Surrogate: 4-Bromochlorobenzene-PID	98.7 %	70-130		02/23/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2408081	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/23/24	02/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.4 %	70-130		02/23/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2409005	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/24	02/27/24	
Surrogate: n-Nonane	95.7 %	50-200		02/26/24	02/27/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2408089	
Chloride	207	20.0	1	02/23/24	02/26/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed1H Battery Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 2/29/2024 5:10:06PM
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FS10 -1'

E402220-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2408081	
Benzene	ND	0.0250	1	02/23/24	02/28/24	
Ethylbenzene	ND	0.0250	1	02/23/24	02/28/24	
Toluene	ND	0.0250	1	02/23/24	02/28/24	
o-Xylene	ND	0.0250	1	02/23/24	02/28/24	
p,m-Xylene	ND	0.0500	1	02/23/24	02/28/24	
Total Xylenes	ND	0.0250	1	02/23/24	02/28/24	
Surrogate: 4-Bromochlorobenzene-PID	98.3 %	70-130		02/23/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2408081	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/23/24	02/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.0 %	70-130		02/23/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2409005	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/24	02/27/24	
Surrogate: n-Nonane	93.3 %	50-200		02/26/24	02/27/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2408089	
Chloride	ND	20.0	1	02/23/24	02/26/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed1H Battery Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 2/29/2024 5:10:06PM
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FS11 -1'

E402220-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2408081	
Benzene	ND	0.0250	1	02/23/24	02/28/24	
Ethylbenzene	ND	0.0250	1	02/23/24	02/28/24	
Toluene	ND	0.0250	1	02/23/24	02/28/24	
o-Xylene	ND	0.0250	1	02/23/24	02/28/24	
p,m-Xylene	ND	0.0500	1	02/23/24	02/28/24	
Total Xylenes	ND	0.0250	1	02/23/24	02/28/24	
Surrogate: 4-Bromochlorobenzene-PID	99.6 %	70-130		02/23/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2408081	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/23/24	02/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.4 %	70-130		02/23/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2409005	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/24	02/27/24	
Surrogate: n-Nonane	93.1 %	50-200		02/26/24	02/27/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2408089	
Chloride	205	20.0	1	02/23/24	02/26/24	





Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed1H Battery Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 2/29/2024 5:10:06PM
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FS12 -1'

E402220-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2408081	
Benzene	ND	0.0250	1	02/23/24	02/28/24	
Ethylbenzene	ND	0.0250	1	02/23/24	02/28/24	
Toluene	ND	0.0250	1	02/23/24	02/28/24	
o-Xylene	ND	0.0250	1	02/23/24	02/28/24	
p,m-Xylene	ND	0.0500	1	02/23/24	02/28/24	
Total Xylenes	ND	0.0250	1	02/23/24	02/28/24	
Surrogate: 4-Bromochlorobenzene-PID	100 %	70-130		02/23/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2408081	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/23/24	02/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.0 %	70-130		02/23/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2409005	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/24	02/27/24	
Surrogate: n-Nonane	98.6 %	50-200		02/26/24	02/27/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2408089	
Chloride	832	20.0	1	02/23/24	02/26/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mean Green 23 Fed1H Battery	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	2/29/2024 5:10:06PM

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 (2408081-BLK1) Prepared: 02/23/24 Analyzed: 02/27/24

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	7.89		8.00		98.6	70-130			

LCS (2408081-BS1) Prepared: 02/23/24 Analyzed: 02/27/24

Benzene	5.06	0.0250	5.00		101	70-130			
Ethylbenzene	4.93	0.0250	5.00		98.6	70-130			
Toluene	5.06	0.0250	5.00		101	70-130			
o-Xylene	5.00	0.0250	5.00		100	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.85		8.00		98.1	70-130			

Matrix Spike (2408081-MS1) Source: E402216-02 Prepared: 02/23/24 Analyzed: 02/28/24

Benzene	5.08	0.0250	5.00	ND	102	54-133			
Ethylbenzene	4.94	0.0250	5.00	ND	98.8	61-133			
Toluene	5.06	0.0250	5.00	ND	101	61-130			
o-Xylene	5.00	0.0250	5.00	ND	99.9	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.57		8.00		94.7	70-130			

Matrix Spike Dup (2408081-MSD1) Source: E402216-02 Prepared: 02/23/24 Analyzed: 02/27/24

Benzene	4.86	0.0250	5.00	ND	97.1	54-133	4.43	20	
Ethylbenzene	4.73	0.0250	5.00	ND	94.6	61-133	4.31	20	
Toluene	4.85	0.0250	5.00	ND	97.0	61-130	4.28	20	
o-Xylene	4.79	0.0250	5.00	ND	95.8	63-131	4.24	20	
p,m-Xylene	9.66	0.0500	10.0	ND	96.6	63-131	4.30	20	
Total Xylenes	14.4	0.0250	15.0	ND	96.3	63-131	4.28	20	
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.1	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mean Green 23 Fed1H Battery	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	2/29/2024 5:10:06PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2408081-BLK1) Prepared: 02/23/24 Analyzed: 02/27/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.8	70-130			

LCS (2408081-BS2) Prepared: 02/23/24 Analyzed: 02/27/24

Gasoline Range Organics (C6-C10)	47.4	20.0	50.0		94.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

Matrix Spike (2408081-MS2) Source: E402216-02 Prepared: 02/23/24 Analyzed: 02/28/24

Gasoline Range Organics (C6-C10)	37.0	20.0	50.0	ND	74.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike Dup (2408081-MSD2) Source: E402216-02 Prepared: 02/23/24 Analyzed: 02/28/24

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0	ND	89.0	70-130	18.5	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.9	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mean Green 23 Fed1H Battery	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	2/29/2024 5:10:06PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409005-BLK1) Prepared: 02/26/24 Analyzed: 02/26/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.7		50.0		105	50-200			

LCS (2409005-BS1) Prepared: 02/26/24 Analyzed: 02/26/24

Diesel Range Organics (C10-C28)	265	25.0	250		106	38-132			
Surrogate: n-Nonane	50.4		50.0		101	50-200			

Matrix Spike (2409005-MS1) Source: E402219-01 Prepared: 02/26/24 Analyzed: 02/26/24

Diesel Range Organics (C10-C28)	278	25.0	250	ND	111	38-132			
Surrogate: n-Nonane	50.3		50.0		101	50-200			

Matrix Spike Dup (2409005-MSD1) Source: E402219-01 Prepared: 02/26/24 Analyzed: 02/26/24

Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	38-132	2.50	20	
Surrogate: n-Nonane	51.5		50.0		103	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mean Green 23 Fed1H Battery	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	2/29/2024 5:10:06PM

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 (2408089-BLK1)					Prepared: 02/23/24 Analyzed: 02/26/24				
Chloride	ND	20.0							
LCS (2408089-BS1)					Prepared: 02/23/24 Analyzed: 02/26/24				
Chloride	250	20.0	250		99.9	90-110			
Matrix Spike (2408089-MS1)					Source: E402215-01		Prepared: 02/23/24 Analyzed: 02/26/24		
Chloride	1020	20.0	250	801	87.3	80-120			
Matrix Spike Dup (2408089-MSD1)					Source: E402215-01		Prepared: 02/23/24 Analyzed: 02/26/24		
Chloride	1020	20.0	250	801	86.7	80-120	0.125	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:	Mean Green 23 Fed1H Battery	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	02/29/24 17:10

- 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.





Released to Imaging: 5/7/2024 11:11:45 AM

Received by OCD: 5/5/2024 12:22:52 PM

Project Information

Chain of Custody

Client: Devon Energy		Bill To		Lab Use Only		TAT		EPA Program								
Project: Mean Green 23 Fed 1H Battery		Attention: Dale Woodall		Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Ashley Giovengo		Address: 5315 Buena Vista Dr		E 402220	01058-007				X							
Address: 3122 National Parks Hwy		City, State, Zip: Carlsbad NM, 88220		Analysis and Method							RCRA					
City, State, Zip: Carlsbad NM, 88220		Phone: (575)689-7597		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	TX	GDOC	State				
Phone: 575-988-0055		Email: Dale.woodall@dvn.com										NM	CO	UT	AZ	TX
Email: agiovengo@ensolum.com				X												
Report due by:				Remarks												

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
11:19	2/21/2024	Soil	1	FS01 - 0.5'	1						X			
11:20	2/21/2024	Soil	1	FS02 - 0.5'	2						X			
11:21	2/21/2024	Soil	1	FS03 - 0.5'	3						X			
13:21	2/21/2024	Soil	1	FS04 - 0.5'	4						X			
9:32	2/21/2024	Soil	1	FS05 - 1'	5						X			
9:33	2/21/2024	Soil	1	FS06 - 1'	6						X			
9:34	2/21/2024	Soil	1	FS07 - 1'	7						X			
9:35	2/21/2024	Soil	1	FS10 - 1'	8						X			
9:40	2/21/2024	Soil	1	FS11 - 1'	9						X			
9:41	2/21/2024	Soil	1	FS12 - 1'	10						X			

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, Dale.woodall@dvn.com, chamilton@ensolum.com, ehafth@ensolum.com - kept on ice

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.						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.					
Sampled by: Ethan Haft											
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only					
<i>[Signature]</i>	2-22-24	0700	<i>Michelle Gayle</i>	2-22-24	0700	Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 _____ T2 _____ T3 _____					
<i>Michelle Gayle</i>	2-22-24	1400	<i>Andrew M. S.</i>	2-22-24	1730						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C <u>4</u>					
<i>Andrew M. S.</i>	2-22-24	2400	<i>Kyle R. Hall</i>	2-23-24	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					
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 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: 2/23/2024 11:22:46AM

## 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: 02/23/24 05:30  
Date Logged In: 02/22/24 18:36  
Due Date: 02/29/24 17:00 (4 day TAT)

Work Order ID: E402220  
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: Mean Green 23 Fed1H Battery

Work Order: E402228

Job Number: 01058-0007

Received: 2/24/2024

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
3/1/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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



Date Reported: 3/1/24

Ashley Giovengo  
6488 7 Rivers Hwy  
Artesia, NM 88210



Project Name: Mean Green 23 Fed1H Battery  
Workorder: E402228  
Date Received: 2/24/2024 12:30:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/24/2024 12:30:00PM, under the Project Name: Mean Green 23 Fed1H Battery.

The analytical test results summarized in this report with the Project Name: Mean Green 23 Fed1H Battery 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto: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](mailto:ljjarboe@envirotech-inc.com)

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

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed1H Battery Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 03/01/24 15:20
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS08 -.5'	E402228-01A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
FS09 -.5'	E402228-02A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
FS13 -.05'	E402228-03A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
FS14 -.5'	E402228-04A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
FS15 -.5'	E402228-05A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
FS16 -1'	E402228-06A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
FS17 -1'	E402228-07A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
FS18 -1'	E402228-08A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
FS19 -.5'	E402228-09A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
FS20 -.5'	E402228-10A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
FS21 -.5'	E402228-11A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
FS22 -.5'	E402228-12A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
SW01 -1'	E402228-13A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
SW02 -1'	E402228-14A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed1H Battery Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 3/1/2024 3:20:12PM
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FS08 -.5'

E402228-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Benzene	ND	0.0250	1	02/26/24	02/28/24	
Ethylbenzene	ND	0.0250	1	02/26/24	02/28/24	
Toluene	ND	0.0250	1	02/26/24	02/28/24	
o-Xylene	ND	0.0250	1	02/26/24	02/28/24	
p,m-Xylene	ND	0.0500	1	02/26/24	02/28/24	
Total Xylenes	ND	0.0250	1	02/26/24	02/28/24	
Surrogate: 4-Bromochlorobenzene-PID	97.6 %	70-130		02/26/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/24	02/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.0 %	70-130		02/26/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2409030	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/27/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/27/24	02/27/24	
Surrogate: n-Nonane	100 %	50-200		02/27/24	02/27/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2409006	
Chloride	61.8	20.0	1	02/26/24	02/26/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed1H Battery Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 3/1/2024 3:20:12PM
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FS09 -.5'

E402228-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Benzene	ND	0.0250	1	02/26/24	02/28/24	
Ethylbenzene	ND	0.0250	1	02/26/24	02/28/24	
Toluene	ND	0.0250	1	02/26/24	02/28/24	
o-Xylene	ND	0.0250	1	02/26/24	02/28/24	
p,m-Xylene	ND	0.0500	1	02/26/24	02/28/24	
Total Xylenes	ND	0.0250	1	02/26/24	02/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.6 %	70-130		02/26/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/24	02/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.9 %	70-130		02/26/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409030	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/27/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/27/24	02/27/24	
<i>Surrogate: n-Nonane</i>						
	99.4 %	50-200		02/27/24	02/27/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2409006	
Chloride	312	20.0	1	02/26/24	02/26/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed1H Battery Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 3/1/2024 3:20:12PM
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FS13 -05'

E402228-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Benzene	ND	0.0250	1	02/26/24	02/28/24	
Ethylbenzene	ND	0.0250	1	02/26/24	02/28/24	
Toluene	ND	0.0250	1	02/26/24	02/28/24	
o-Xylene	ND	0.0250	1	02/26/24	02/28/24	
p,m-Xylene	ND	0.0500	1	02/26/24	02/28/24	
Total Xylenes	ND	0.0250	1	02/26/24	02/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.9 %	70-130		02/26/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/24	02/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		02/26/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409030	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/27/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/27/24	02/27/24	
<i>Surrogate: n-Nonane</i>						
	95.9 %	50-200		02/27/24	02/27/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2409006	
Chloride	112	20.0	1	02/26/24	02/26/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed1H Battery Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 3/1/2024 3:20:12PM
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FS14 -.5'

E402228-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Benzene	ND	0.0250	1	02/26/24	02/28/24	
Ethylbenzene	ND	0.0250	1	02/26/24	02/28/24	
Toluene	ND	0.0250	1	02/26/24	02/28/24	
o-Xylene	ND	0.0250	1	02/26/24	02/28/24	
p,m-Xylene	ND	0.0500	1	02/26/24	02/28/24	
Total Xylenes	ND	0.0250	1	02/26/24	02/28/24	
Surrogate: 4-Bromochlorobenzene-PID	96.7 %	70-130		02/26/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/24	02/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.0 %	70-130		02/26/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2409030	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/27/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/27/24	02/27/24	
Surrogate: n-Nonane	99.9 %	50-200		02/27/24	02/27/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2409006	
Chloride	173	20.0	1	02/26/24	02/26/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed1H Battery Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 3/1/2024 3:20:12PM
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FS15 -.5'

E402228-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Benzene	ND	0.0250	1	02/26/24	02/28/24	
Ethylbenzene	ND	0.0250	1	02/26/24	02/28/24	
Toluene	ND	0.0250	1	02/26/24	02/28/24	
o-Xylene	ND	0.0250	1	02/26/24	02/28/24	
p,m-Xylene	ND	0.0500	1	02/26/24	02/28/24	
Total Xylenes	ND	0.0250	1	02/26/24	02/28/24	
Surrogate: 4-Bromochlorobenzene-PID	96.6 %	70-130		02/26/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/24	02/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.1 %	70-130		02/26/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2409030	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/27/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/27/24	02/27/24	
Surrogate: n-Nonane	95.0 %	50-200		02/27/24	02/27/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2409006	
Chloride	184	20.0	1	02/26/24	02/26/24	





Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed1H Battery Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 3/1/2024 3:20:12PM
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FS16 -1'

E402228-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Benzene	ND	0.0250	1	02/26/24	02/28/24	
Ethylbenzene	ND	0.0250	1	02/26/24	02/28/24	
Toluene	ND	0.0250	1	02/26/24	02/28/24	
o-Xylene	ND	0.0250	1	02/26/24	02/28/24	
p,m-Xylene	ND	0.0500	1	02/26/24	02/28/24	
Total Xylenes	ND	0.0250	1	02/26/24	02/28/24	
Surrogate: 4-Bromochlorobenzene-PID	98.3 %	70-130		02/26/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/24	02/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.2 %	70-130		02/26/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2409030	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/27/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/27/24	02/27/24	
Surrogate: n-Nonane	75.4 %	50-200		02/27/24	02/27/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2409006	
Chloride	524	20.0	1	02/26/24	02/26/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed1H Battery Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 3/1/2024 3:20:12PM
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FS17 -1'

E402228-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Benzene	ND	0.0250	1	02/26/24	02/28/24	
Ethylbenzene	ND	0.0250	1	02/26/24	02/28/24	
Toluene	ND	0.0250	1	02/26/24	02/28/24	
o-Xylene	ND	0.0250	1	02/26/24	02/28/24	
p,m-Xylene	ND	0.0500	1	02/26/24	02/28/24	
Total Xylenes	ND	0.0250	1	02/26/24	02/28/24	
Surrogate: 4-Bromochlorobenzene-PID	95.6 %	70-130		02/26/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/24	02/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.6 %	70-130		02/26/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2409030	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/27/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/27/24	02/27/24	
Surrogate: n-Nonane	75.9 %	50-200		02/27/24	02/27/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2409006	
Chloride	61.3	20.0	1	02/26/24	02/26/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed1H Battery Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 3/1/2024 3:20:12PM
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FS18 -1'

E402228-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Benzene	ND	0.0250	1	02/26/24	02/28/24	
Ethylbenzene	ND	0.0250	1	02/26/24	02/28/24	
Toluene	ND	0.0250	1	02/26/24	02/28/24	
o-Xylene	ND	0.0250	1	02/26/24	02/28/24	
p,m-Xylene	ND	0.0500	1	02/26/24	02/28/24	
Total Xylenes	ND	0.0250	1	02/26/24	02/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.0 %	70-130		02/26/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/24	02/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.7 %	70-130		02/26/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409030	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/27/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/27/24	02/27/24	
<i>Surrogate: n-Nonane</i>						
	93.1 %	50-200		02/27/24	02/27/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2409006	
Chloride	ND	20.0	1	02/26/24	02/26/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed1H Battery Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 3/1/2024 3:20:12PM
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FS19 -.5'

E402228-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Benzene	ND	0.0250	1	02/26/24	02/28/24	
Ethylbenzene	ND	0.0250	1	02/26/24	02/28/24	
Toluene	ND	0.0250	1	02/26/24	02/28/24	
o-Xylene	ND	0.0250	1	02/26/24	02/28/24	
p,m-Xylene	ND	0.0500	1	02/26/24	02/28/24	
Total Xylenes	ND	0.0250	1	02/26/24	02/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.1 %	70-130		02/26/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/24	02/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.6 %	70-130		02/26/24	02/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409030	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/27/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/27/24	02/27/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		02/27/24	02/27/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2409006	
Chloride	214	20.0	1	02/26/24	02/26/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed1H Battery Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 3/1/2024 3:20:12PM
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FS20 -.5'

E402228-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Benzene	ND	0.0250	1	02/26/24	02/29/24	
Ethylbenzene	ND	0.0250	1	02/26/24	02/29/24	
Toluene	ND	0.0250	1	02/26/24	02/29/24	
o-Xylene	ND	0.0250	1	02/26/24	02/29/24	
p,m-Xylene	ND	0.0500	1	02/26/24	02/29/24	
Total Xylenes	ND	0.0250	1	02/26/24	02/29/24	
Surrogate: 4-Bromochlorobenzene-PID	92.3 %	70-130		02/26/24	02/29/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/24	02/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.0 %	70-130		02/26/24	02/29/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2409030	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/27/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/27/24	02/27/24	
Surrogate: n-Nonane	99.5 %	50-200		02/27/24	02/27/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2409006	
Chloride	675	20.0	1	02/26/24	02/26/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed1H Battery Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 3/1/2024 3:20:12PM
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FS21 -.5'

E402228-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Benzene	ND	0.0250	1	02/26/24	02/29/24	
Ethylbenzene	ND	0.0250	1	02/26/24	02/29/24	
Toluene	ND	0.0250	1	02/26/24	02/29/24	
o-Xylene	ND	0.0250	1	02/26/24	02/29/24	
p,m-Xylene	ND	0.0500	1	02/26/24	02/29/24	
Total Xylenes	ND	0.0250	1	02/26/24	02/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.5 %	70-130		02/26/24	02/29/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/24	02/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.2 %	70-130		02/26/24	02/29/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409030	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/27/24	02/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/27/24	02/28/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		02/27/24	02/28/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2409006	
Chloride	616	20.0	1	02/26/24	02/26/24	



Sample Data

Devon Energy - Carlsbad	Project Name:	Mean Green 23 Fed1H Battery	<b>Reported:</b> 3/1/2024 3:20:12PM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

FS22 -.5'

E402228-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Benzene	ND	0.0250	1	02/26/24	02/29/24	
Ethylbenzene	0.122	0.0250	1	02/26/24	02/29/24	
Toluene	ND	0.0250	1	02/26/24	02/29/24	
o-Xylene	0.0764	0.0250	1	02/26/24	02/29/24	
p,m-Xylene	0.0585	0.0500	1	02/26/24	02/29/24	
Total Xylenes	0.135	0.0250	1	02/26/24	02/29/24	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		02/26/24	02/29/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/24	02/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.9 %	70-130		02/26/24	02/29/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2409030	
Diesel Range Organics (C10-C28)	522	25.0	1	02/27/24	02/28/24	
Oil Range Organics (C28-C36)	218	50.0	1	02/27/24	02/28/24	
Surrogate: n-Nonane	111 %	50-200		02/27/24	02/28/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2409006	
Chloride	239	20.0	1	02/26/24	02/26/24	





Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed1H Battery Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 3/1/2024 3:20:12PM
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SW01 -1'

E402228-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Benzene	ND	0.0250	1	02/26/24	02/29/24	
Ethylbenzene	ND	0.0250	1	02/26/24	02/29/24	
Toluene	ND	0.0250	1	02/26/24	02/29/24	
o-Xylene	ND	0.0250	1	02/26/24	02/29/24	
p,m-Xylene	ND	0.0500	1	02/26/24	02/29/24	
Total Xylenes	ND	0.0250	1	02/26/24	02/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.6 %	70-130		02/26/24	02/29/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/24	02/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.2 %	70-130		02/26/24	02/29/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409030	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/27/24	02/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/27/24	02/28/24	
<i>Surrogate: n-Nonane</i>						
	87.5 %	50-200		02/27/24	02/28/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2409006	
Chloride	ND	20.0	1	02/26/24	02/26/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mean Green 23 Fed1H Battery Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 3/1/2024 3:20:12PM
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SW02 -1'

E402228-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Benzene	ND	0.0250	1	02/26/24	02/29/24	
Ethylbenzene	ND	0.0250	1	02/26/24	02/29/24	
Toluene	ND	0.0250	1	02/26/24	02/29/24	
o-Xylene	ND	0.0250	1	02/26/24	02/29/24	
p,m-Xylene	ND	0.0500	1	02/26/24	02/29/24	
Total Xylenes	ND	0.0250	1	02/26/24	02/29/24	
Surrogate: 4-Bromochlorobenzene-PID	91.5 %	70-130		02/26/24	02/29/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2409012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/24	02/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.2 %	70-130		02/26/24	02/29/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2409030	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/27/24	02/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/27/24	02/28/24	
Surrogate: n-Nonane	90.1 %	50-200		02/27/24	02/28/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2409006	
Chloride	26.0	20.0	1	02/26/24	02/26/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mean Green 23 Fed1H Battery	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/1/2024 3:20:12PM

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 (2409012-BLK1) Prepared: 02/26/24 Analyzed: 02/28/24

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	8.00		8.00		100	70-130			

LCS (2409012-BS1) Prepared: 02/26/24 Analyzed: 02/28/24

Benzene	5.04	0.0250	5.00		101	70-130			
Ethylbenzene	4.93	0.0250	5.00		98.6	70-130			
Toluene	5.05	0.0250	5.00		101	70-130			
o-Xylene	5.00	0.0250	5.00		100	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.89		8.00		98.6	70-130			

Matrix Spike (2409012-MS1) Source: E402228-06 Prepared: 02/26/24 Analyzed: 02/28/24

Benzene	5.04	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.91	0.0250	5.00	ND	98.2	61-133			
Toluene	5.04	0.0250	5.00	ND	101	61-130			
o-Xylene	4.99	0.0250	5.00	ND	99.7	63-131			
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131			
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130			

Matrix Spike Dup (2409012-MSD1) Source: E402228-06 Prepared: 02/26/24 Analyzed: 02/28/24

Benzene	5.16	0.0250	5.00	ND	103	54-133	2.34	20	
Ethylbenzene	5.05	0.0250	5.00	ND	101	61-133	2.68	20	
Toluene	5.17	0.0250	5.00	ND	103	61-130	2.48	20	
o-Xylene	5.12	0.0250	5.00	ND	102	63-131	2.74	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	2.68	20	
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131	2.70	20	
Surrogate: 4-Bromochlorobenzene-PID	7.96		8.00		99.5	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mean Green 23 Fed1H Battery	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/1/2024 3:20:12PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409012-BLK1) Prepared: 02/26/24 Analyzed: 02/28/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	70-130			

LCS (2409012-BS2) Prepared: 02/26/24 Analyzed: 02/28/24

Gasoline Range Organics (C6-C10)	45.8	20.0	50.0		91.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.6	70-130			

Matrix Spike (2409012-MS2) Source: E402228-06 Prepared: 02/26/24 Analyzed: 02/29/24

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.6	70-130			

Matrix Spike Dup (2409012-MSD2) Source: E402228-06 Prepared: 02/26/24 Analyzed: 02/28/24

Gasoline Range Organics (C6-C10)	46.1	20.0	50.0	ND	92.1	70-130	0.890	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mean Green 23 Fed1H Battery	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/1/2024 3:20:12PM

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
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Blank (2409030-BLK1) Prepared: 02/27/24 Analyzed: 02/27/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.0		50.0		102	50-200			

LCS (2409030-BS1) Prepared: 02/27/24 Analyzed: 02/27/24

Diesel Range Organics (C10-C28)	313	25.0	250		125	38-132			
Surrogate: n-Nonane	56.1		50.0		112	50-200			

Matrix Spike (2409030-MS1) Source: E402228-06 Prepared: 02/27/24 Analyzed: 02/27/24

Diesel Range Organics (C10-C28)	305	25.0	250	ND	122	38-132			
Surrogate: n-Nonane	56.7		50.0		113	50-200			

Matrix Spike Dup (2409030-MSD1) Source: E402228-06 Prepared: 02/27/24 Analyzed: 02/27/24

Diesel Range Organics (C10-C28)	302	25.0	250	ND	121	38-132	1.07	20	
Surrogate: n-Nonane	45.1		50.0		90.3	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mean Green 23 Fed1H Battery	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/1/2024 3:20:12PM

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 (2409006-BLK1)					Prepared: 02/26/24 Analyzed: 02/26/24				
Chloride	ND	20.0							
LCS (2409006-BS1)					Prepared: 02/26/24 Analyzed: 02/26/24				
Chloride	258	20.0	250		103	90-110			
Matrix Spike (2409006-MS1)					Source: E402224-03		Prepared: 02/26/24 Analyzed: 02/26/24		
Chloride	554	100	250	294	104	80-120			
Matrix Spike Dup (2409006-MSD1)					Source: E402224-03		Prepared: 02/26/24 Analyzed: 02/26/24		
Chloride	566	100	250	294	109	80-120	2.05	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:	Mean Green 23 Fed1H Battery	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	03/01/24 15:20

- 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

<b>Client:</b> Devon		<b>Bill To</b>		<b>Lab Use Only</b>		<b>TAT</b>		<b>EPA Program</b>								
<b>Project:</b> Mean Green 23 Fed 1H Battery		<b>Attention:</b> Dale Woodall		<b>Lab WO#</b>		<b>Job Number</b>		<b>1D</b>	<b>2D</b>	<b>3D</b>	<b>Standard</b>	<b>CWA</b>	<b>SDWA</b>			
<b>Project Manager:</b> Ashley Giovengo		<b>Address:</b> 205 E Bender Road #150		<b>E 402228</b>		<b>010580007</b>					x					
<b>Address:</b> 3122 National Parks Hwy		<b>City, State, Zip:</b> Hobbs NM, 88240		<b>Analysis and Method</b>								<b>RCRA</b>				
<b>City, State, Zip:</b> Carlsbad NM, 88220		<b>Phone:</b> (575)748-1838														
<b>Phone:</b> 575-988-0055		<b>Email:</b> dale.woodall@dvn.com										<b>State</b>				
<b>Email:</b> agiovengo@ensolum.com												<b>NM</b>	<b>CO</b>	<b>UT</b>	<b>AZ</b>	<b>TX</b>
<b>Report due by:</b>												x				

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	GDOC TX	Remarks
11:04	2/22/2024	Soil	1	FS08 - .5'	1						X		
11:06	2/22/2024	Soil	1	FS09 - .5'	2						X		
11:01	2/22/2024	Soil	1	FS13 - 05'	3						X		
12:15	2/22/2024	Soil	1	FS14 - .5'	4						X		
12:17	2/22/2024	Soil	1	FS15 - .5'	5						X		
9:53	2/22/2024	Soil	1	FS16 - 1'	6						X		
9:52	2/22/2024	Soil	1	FS17 - 1'	7						X		
9:48	2/22/2024	Soil	1	FS18 - 1'	8						X		
12:18	2/22/2024	Soil	1	FS19 - .5'	9						X		
12:20	2/22/2024	Soil	1	FS20 - .5'	10						X		

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dvn.com, chamilton@ensolum.com, ehaf@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	<b>Lab Use Only</b> 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	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 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.



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: 2/26/2024 9:55:55AM

## 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.giovenco@wescominc.com

Date Received: 02/24/24 12:30  
 Date Logged In: 02/24/24 13:40  
 Due Date: 03/01/24 17:00 (4 day TAT)

Work Order ID: E402228  
 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.



## APPENDIX F

### Email Correspondence

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**From:** [Velez, Nelson, EMNRD](#)  
**To:** [Ashley Giovengo](#); [Woodall, Dale](#)  
**Cc:** [Cole Burton](#); [Chad Hamilton](#); [Ethan Haft](#); [Israel Estrella](#)  
**Subject:** Re: [EXTERNAL] Extension Request - Mean Green 23 Fed 1H Battery - Incident Number nAPP233132834  
**Date:** Friday, February 16, 2024 9:32:38 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[Outlook-veixohc0.png](#)

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You don't often get email from [nelson.velez@emnrd.nm.gov](mailto:nelson.velez@emnrd.nm.gov). [Learn why this is important](#)

[\*\*EXTERNAL EMAIL\*\*]

Good morning Ashley,

Your 60-day time extension request is approved. Remediation Due date has been updated to April 8, 2024.

In the future, please address any time extension request prior to the Remediation Due date expiring.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Have a safe and productive day!

Regards,

**Nelson Velez** • Environmental Specialist - Adv  
Environmental Bureau | EMNRD - Oil Conservation Division  
1000 Rio Brazos Road | Aztec, NM 87410  
(505) 469-6146 | [nelson.velez@emnrd.nm.gov](mailto:nelson.velez@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>



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**From:** Ashley Giovengo <[agiovengo@ensolum.com](mailto:agiovengo@ensolum.com)>  
**Sent:** Friday, February 16, 2024 8:39 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>; Velez, Nelson, EMNRD <[Nelson.Velez@emnrd.nm.gov](mailto:Nelson.Velez@emnrd.nm.gov)>; Woodall, Dale <[dale.woodall@dvn.com](mailto:dale.woodall@dvn.com)>

**Cc:** Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>; Ethan Haft <ehaft@ensolum.com>; Israel Estrella <iestrella@ensolum.com>

**Subject:** [EXTERNAL] Extension Request - Mean Green 23 Fed 1H Battery - Incident Number nAPP233132834

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

All,

Devon Energy is requesting an extension of the current deadline of February 06, 2024, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for the Mean Green 23 Fed 1 Battery (Incident Number nAPP233132834). The 23-barrel (bbl) crude oil release occurred on November 08, 2023, and 14 bbl/s of oil was recovered. Delineation sampling to the strictest closure criteria per NMOCD Table I has been completed at the Site and the New Mexico Office of the State Engineer (NMOSE) has approved a soil boring permit (C-04809 POD1) for the purpose of establishing depth to water at the Site. The depth to water determination will be completed on February 27, 2024, and the excavation has been scheduled for the following week. The well log and file will be submitted to (NMOSE) and included in the remediation work plan or closure report. Devon will submit a remediation work plan or closure report, following remediation efforts and confirmation sampling. Devon respectfully requests a 60-day extension until April 06, 2024.

A copy of this extension request will be upload to the NMOCD web portal.

Thank you,



**Ashley Giovengo**

Senior Scientist

575-988-0055

**Ensolum, LLC**

in f 



**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 340883

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	340883
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2331323834
Incident Name	NAPP2331323834 MEAN GREEN 23 CTB 1 BATTERY @ 30-025-41292
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-41292] MEAN GREEN 23 FEDERAL #001H
Incident Facility	[fAPP2130555593] MEAN GREEN 23 FED 1H BATTERY

Location of Release Source	
Please answer all the questions in this group.	
Site Name	MEAN GREEN 23 CTB 1 BATTERY
Date Release Discovered	11/08/2023
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Human Error   Other (Specify)   Crude Oil   Released: 23 BBL   Recovered: 14 BBL   Lost: 9 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
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)	LO arrived on location and found oil on the well/battery pad. After checking the spill, it looks like a vac truck dumped the oil/tank bottoms on the pad, circled around the well, and drove through the spill to leave the location. There are no underground lines in the area of the spill and the well has been shut in for the past month.



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Action 340883

**QUESTIONS (continued)**

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**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
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@dmn.com Date: 05/05/2024
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Action 340883

**QUESTIONS (continued)**

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**QUESTIONS****Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	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	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
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)	2950
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	15900
GRO+DRO	(EPA SW-846 Method 8015M)	2728
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.3
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	02/20/2024
On what date will (or did) the final sampling or liner inspection occur	02/21/2024
On what date will (or was) the remediation complete(d)	02/21/2024
What is the estimated surface area (in square feet) that will be reclaimed	3885
What is the estimated volume (in cubic yards) that will be reclaimed	200
What is the estimated surface area (in square feet) that will be remediated	3885
What is the estimated volume (in cubic yards) that will be remediated	200

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

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

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Action 340883

**QUESTIONS (continued)**

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**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	R360 Artesia LLC LANDFARM [FEEM0112340644]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 05/05/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS (continued)

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[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

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

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**QUESTIONS (continued)**

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**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	314914
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/20/2024
What was the (estimated) number of samples that were to be gathered	20
What was the sampling surface area in square feet	3885

**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	4252
What was the total volume (cubic yards) remediated	200
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	4252
What was the total volume (in cubic yards) reclaimed	200
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: 05/05/2024
--	--

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QUESTIONS (continued)

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	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

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

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CONDITIONS  
  
Action 340883

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
crystal.walker	Closure Report Approved. Sampling Event Information indicated the sampling would take place on 9/20/2024. Please review applications prior to submitting to ensure accurate information is provided. Failure to provide proper sampling notice is a compliance issue and OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC	5/7/2024