MUSKIE 23 CTB 5

3/15/2024

OCD INCIDENT nAPP2407561521

Spills In Lined Containment	
Measurements Of Standing Fluid	
Length(Ft)	75
Width(Ft)	75
Depth(in.)	0.75
Total Capacity without tank displacements (bbls)	**62.62**
No. of 500 bbl Tanks In Standing Fluid	6
No. of Other Tanks In Standing Fluid	0
OD Of Other Tanks In Standing Fluid(feet)	0
Total Volume of standing fluid accounting for tank displacement.	50.02

ENSOLUM

August 7, 2024

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

Re: Closure Request
Muskie 23 CTB 5
Incident Numbers nAPP2408624331
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Devon Energy Production Company, LP (Devon), has prepared this *Closure Request* summarizing the response efforts and liner integrity inspection activities performed at the Muskie 23 CTB 5 (Site) in Unit A, Section 23, Township 26 South, Range 34 East, in Eddy County, New Mexico (Figure 1). The purpose of the liner integrity inspection was to determine if the lined secondary containment was capable of containing the produced water release on March 25, 2024, and whether impacts to soil in the areas immediately surrounding the containment liner were present or absent. Based on field observations during the liner integrity inspection, Devon is submitting this *Closure Request* and requesting closure for Incident Number nAPP2408624331.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Eddy County, New Mexico (32.03314°, -103.43566°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On March 25, 2024, a 3-inch 'T' union developed a pinhole leak, which resulted in the release of 64 barrels (bbls) of produced water inside the lined secondary containment. A vacuum truck successfully recovered all 64 bbls of produced water. Devon reported the release to the New Mexico Oil Conservation Division (NMOCD) via web portal on March 26, 2024. The release was assigned Incident Number nAPP2408624331. A 48-hour advance notice of liner inspection was provided via web portal to the NMOCD on June 25, 2024. A liner integrity inspection was conducted by Ensolum personnel following fluid recovery and upon inspection, the liner was determined to be insufficient and had the potential for contaminants to migrate outside of containment into soil and the subsurface.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-4856 POD1 with a depth to water measurement greater than 105 feet

below ground surface (bgs). The well was a soil boring drilled to assess depth to groundwater beneath the Site and was advanced approximately 789 feet southwest of the spill area and measured on July 29, 2024. All wells used for depth to groundwater determinations are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 0.9 miles northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

DELINEATION SOIL SAMPLING ACTIVITIES AND LINER INTEGRITY INSPECTIONS

On June 27, 2024, Ensolum personnel competent in conducting liner inspections, arrived onsite to visually inspect the integrity of the separator containment liner associated with Incident Number nAPP2408624331. Prior to conducting the inspection, NMOCD was provided with a 48-hour liner inspection notification via email on June 25, 2024 (Appendix B). The liner was found insufficient during the June 2024 inspection. A single hole was found in the liner in between the separators. Four lateral delineation sample points (SS08 through SS11) were collected on all four sides of the lined containment at ground surface to verify the release remained inside the lined containment. Photographs taken during the liner inspection are included in Appendix C.

On July 3, 2024, Ensolum personnel returned to the Site to collect a vertical sample beneath the containment liner. One delineation sample point (BH07) was advanced in the general vicinity of the damaged liner to a terminal depth of 1-foot bgs. Delineation soil samples were field screened for chloride and TPH utilizing Mohr's titration method and a PetroFLAG® Soil Analyzer System, respectively. The delineation sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Field screening results and observations from the borehole was logged on lithologic/soil sampling log, which is included in Appendix D.

One delineation soil sample (BH07@0') was collected at ground surface just beneath the containment liner and one delineation soil sample (BH07@1') was collected at 1-foot bgs. Both 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, Inc. (Envirotech) in Farmington, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral delineation soil samples (SS08 through SS11) collected at ground surface and associated with Incident Number nAPP2408624331 indicated all COC concentrations were in compliance with strictest Closure Criteria per NMOCD Table I and with the Site Closure Criteria. Laboratory analytical results for vertical delineation soil samples collected from borehole (BH07) were in compliance with the Site Closure Criteria and vertical delineation soil sample (BH07@1') was in compliance with the strictest Closure Criteria per NMOCD Table I at 1-foot bgs. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix E.

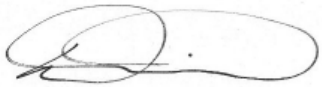
CLOSURE REQUEST

Following a liner integrity inspection at the Site, it was determined the release was contained laterally and vertically by the lined secondary containment. Lateral delineation soil samples (SS08 through SS11) collected at ground surface verified the release did not breach the containment walls during the release. Vertical delineation soil samples (BH07) from ground surface to 1-foot bgs indicated contamination beneath the lined containment does not exceed the Closure Criteria for the Site. Waste-containing soil just beneath the liner will remain in place until major Site reconstruction or final reclamation of the pad, which ever one comes first. Reclamation will be completed based on approved practices. Remedial actions completed at the Site following the June 2024 produced water release appear to have been protective of human health, the environment, and groundwater. Based on initial response efforts, and a reported depth to groundwater of greater than 105 feet bgs, Devon respectfully requests closure for Incident Number nAPP2408624331.

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

Sincerely,
Ensolum, LLC

Ashley Giovengo
Senior Scientist



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

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	NMOCD Correspondence
Appendix C	Photographic Log
Appendix D	Lithologic Soil Sampling Logs
Appendix E	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix F	NMOCD Notifications

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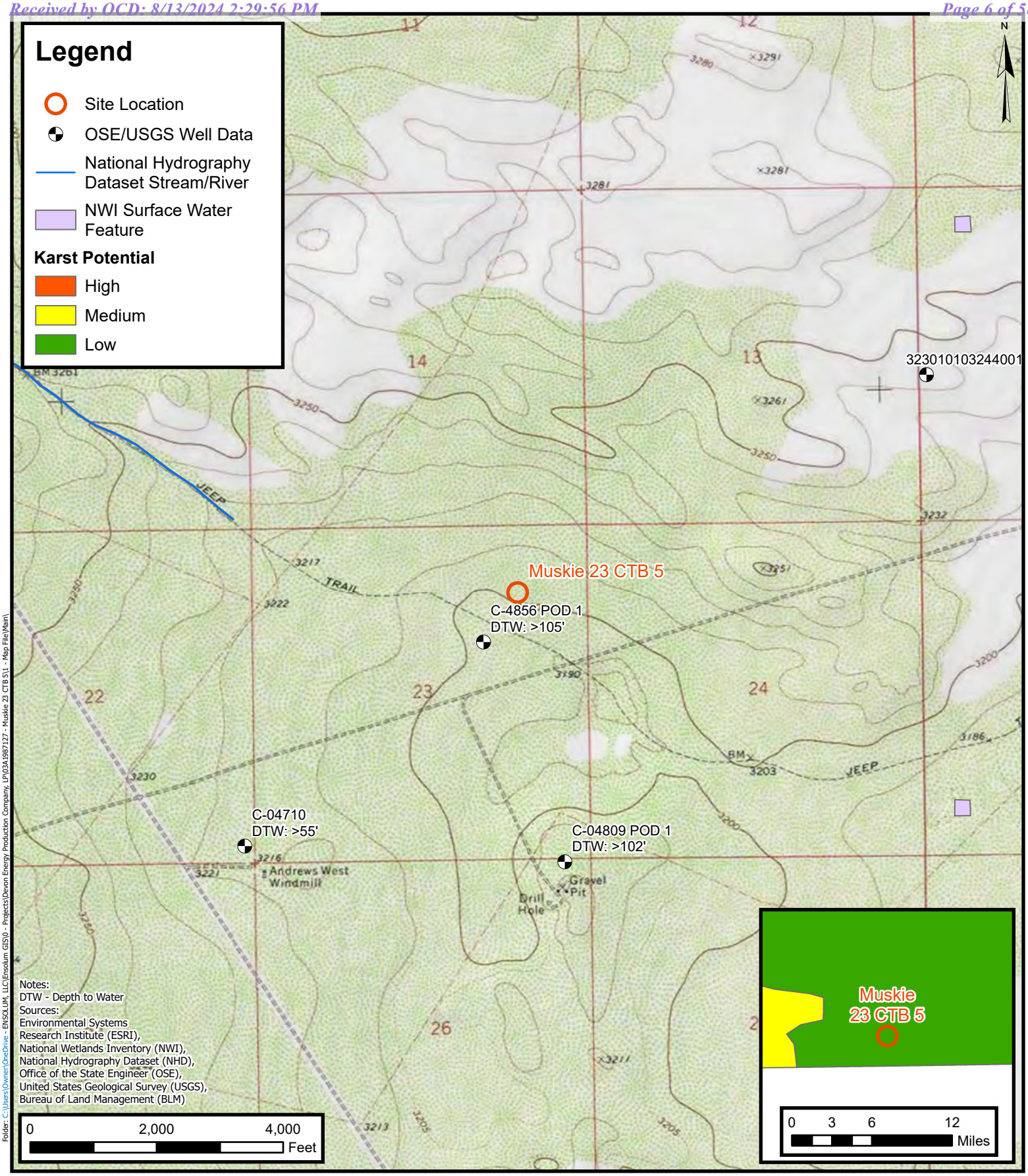
FIGURES



Folder: C:\Users\Owner\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\Devon Energy Production Company, LP\03A1987127 - Muskie 23 CTB 5\1 - Map File\Main\

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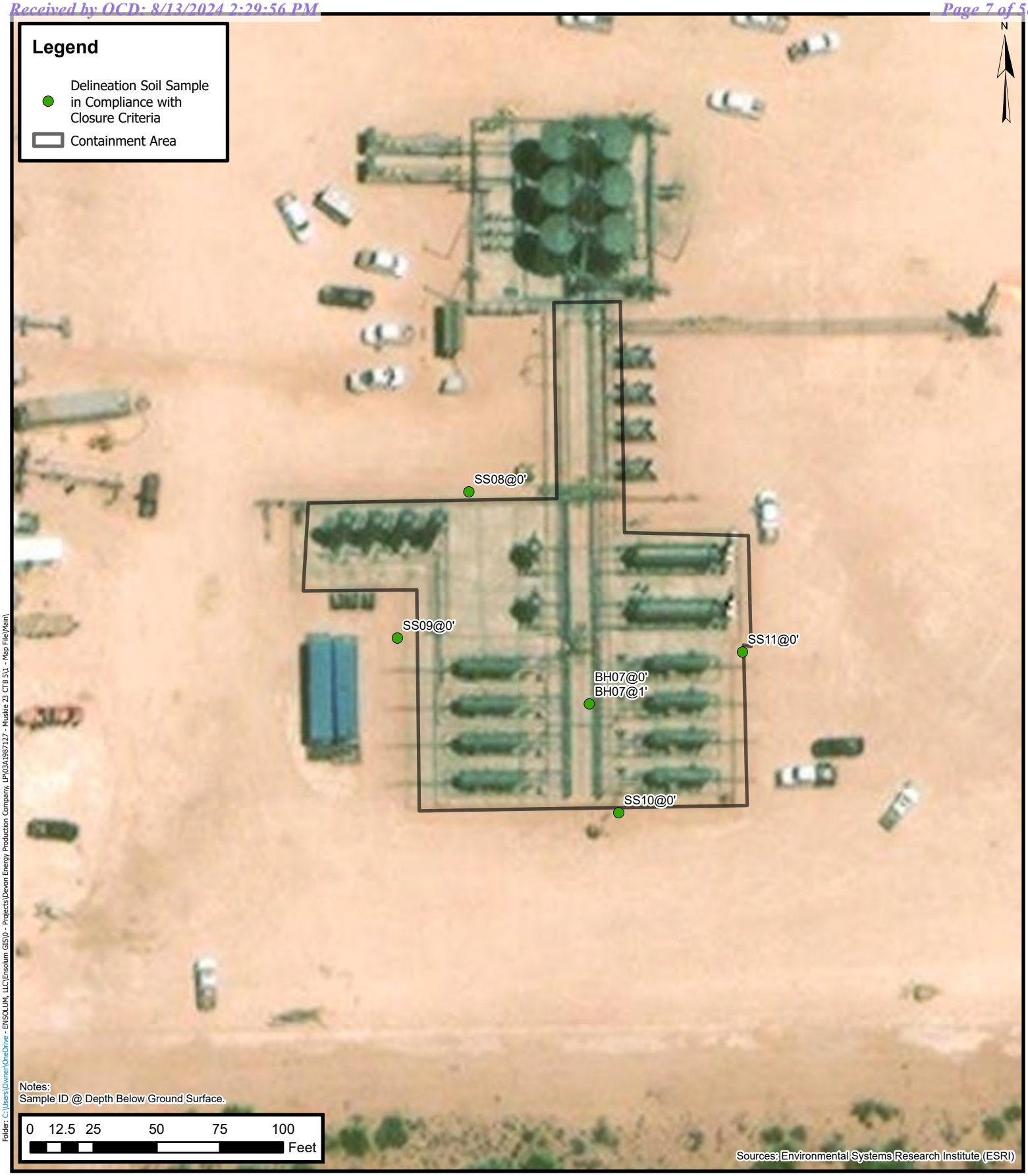
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

Devon Energy Production Company, LP
Muskie 23 CTB 5
Incident Number: nAPP2408624331
Unit A, Section 23, Township 26S, Range 34E
Eddy County, New Mexico

FIGURE 1



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Environmental, Engineering and Hydrogeologic Consultants

Delineation Soil Sample Locations

Devon Energy Production Company, LP
Muskie 23 CTB 5
Incident Number: nAPP2408624331
Unit A, Section 23, Township 26S, Range 34E
Eddy County, New Mexico

FIGURE 2

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Muskie 23 CTB 5
Devon Energy Production Company, LP
Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**20,000**
Delineation Soil Samples										
SS08	6/27/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<20.0	172
SS09	6/27/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<20.0	38.4
SS10	6/27/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<20.0	292
SS11	6/27/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<20.0	281
BH07	7/3/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<20.0	1,110
BH07	7/3/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<20.0	21.5

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

"<": Laboratory Analytical result is less than reporting limit

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

*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.*

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APPENDIX A

Referenced Well Records

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.) POD 1	WELL TAG ID NO. N/A	OSE FILE NO(S). C-4856 POD 1
WELL OWNER NAME(S) Devon Energy Production Company		PHONE (OPTIONAL) 575-748-1838
WELL OWNER MAILING ADDRESS 205 E. Bender Road #150		CITY Hobbs STATE NM ZIP 88240

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	01	51.64	N
	LONGITUDE	103	26	14.78	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

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

2. DRILLING & CASING INFORMATION

LICENSE NO	NAME OF LICENSED DRILLER			NAME OF WELL DRILLING COMPANY
WD1188	John Scarborough			John Scarborough Drilling Inc.
DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
07/25/2024	07/25/2024	105	105	N/A

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

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

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	105	5	Soil Boring	-	-	-	-

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
			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) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	10	10	Silty Sand, Medium Brown to tan, Medium to fine grained	Y ✓ N	
10	20	10	Silty Sand, Medium brown to red, Medium to fine grained	Y ✓ N	
20	30	10	Sand with Gravel, light brown to white, fine to medium with some caliche gravel	Y ✓ N	
30	35	5	Sand with Gravel, light brown to white, fine to medium with some caliche gravel	Y ✓ N	
35	40	5	Sand with clay, light brown to white, fine to medium with some red clay	Y ✓ N	
40	48	4	Sand with Gravel, light brown to white, fine to medium with some caliche gravel	Y ✓ N	
48	55	8	Sandstone, Light brown to white, fine to coarse grained	Y ✓ N	
55	58	3	Sand with clay, light brown to yellow, very fine to medium with some grey clay	Y ✓ N	
58	60	2	Sand with clay, light brown to grey, very fine to medium with some grey clay	Y ✓ N	
60	68	8	Clay with sand, medium brown to red, with some medium brown sand	Y ✓ N	
68	70	2	Sand with clay, light to medium brown, very fine to medium with some grey clay	Y ✓ N	
70	74	4	Sand with clay medium brown to red, with some red clay	Y ✓ N	
74	80	6	Sand with clay, light brown to grey, very fine to medium with some grey clay	Y ✓ N	
80	90	10	Sand with clay, light brown to yellow, very fine to medium with some grey clay	Y ✓ N	
90	100	10	Silty Sand, light to medium brown, medium to fine grained	Y ✓ N	
100	105	5	Sand with Gravel, light brown to white, fine to medium with some caliche gravel	Y ✓ N	
105	105	0	Sand with Gravel, light brown to white, fine to medium with some caliche gravel	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

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

MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to 10 ft below ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface.

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

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: 2024.07.30 10:43:42 -06'00'

SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE

FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 04/30/2019)

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

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APPENDIX B

Photographic Log

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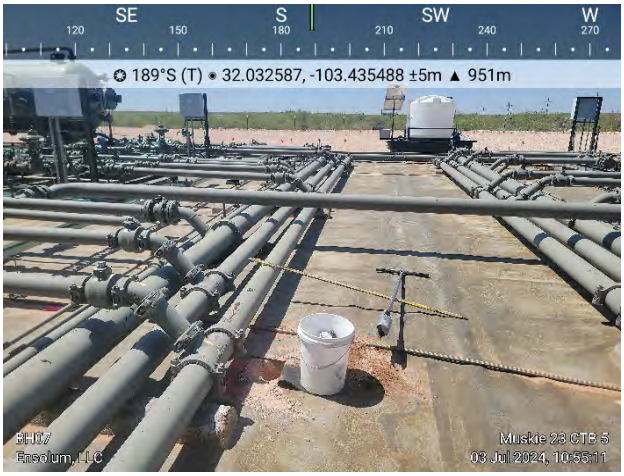
Photographic Log
Devon Energy Production Company, LP
Muskie 23 CTB 5
nAPP2408624331

Photograph 1 Date: 6/27/2024
Description: Site signage
View: Southeast

Photograph 2 Date: 6/27/2024
Description: Liner inspection
View: Northeast



Photograph 3 Date: 7/3/2024
Description: Delineation
View: South

Photograph 4 Date: 7/3/2024
Description: Liner patch
View: Northeast

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APPENDIX C

Lithologic Soil Sampling Logs

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	Sample Name: BH07	Date: 7/3/2024
	Site Name: Muskie 23 CTB 5	
	Incident Number: nAPP2407561521	
	Job Number: 03A1987128	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Cole Burton	Method: Hand Auger
Coordinates: 32.03262, -103.43544	Hole Diameter: 3"	Total Depth: 1'

Comments: Field screening conducted with Mohr method titration for chloride and Petroflag® for Total Petroleum Hydrocarbons (TPH). Chloride test performed with 1:1 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			Y	BH07	0	0	CCHE	Caliche - Slight staining, No odor
D	50		N	BH07	1	1	SP-SM	Sand with silt - Dark brown, No odor

Total Depth = 1'

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APPENDIX E

Laboratory Analytical Reports & Chain of Custody Documentation

Report to:

Ashley Giovengo

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Muskie 23 CTB 5

Work Order: E406265

Job Number: 01058-0007

Received: 7/1/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/3/24

Date Reported: 7/3/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Muskie 23 CTB 5
Workorder: E406265
Date Received: 7/1/2024 10:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/1/2024 10:30:00AM, under the Project Name: Muskie 23 CTB 5.

The analytical test results summarized in this report with the Project Name: Muskie 23 CTB 5 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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	**Reported:**
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	07/03/24 10:15

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS08-0'	E406265-01A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
SS09-0'	E406265-02A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
SS10-0'	E406265-03A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
SS11-0'	E406265-04A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.

Sample Data

Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	
6488 7 Rivers Hwy	Project Number:	01058-0007	**Reported:**
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/3/2024 10:15:58AM

SS08-0'

E406265-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2427015
Benzene	ND	0.0250	1	07/01/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/02/24	
Toluene	ND	0.0250	1	07/01/24	07/02/24	
o-Xylene	ND	0.0250	1	07/01/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/02/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.3 %*	*70-130*	*07/01/24*	*07/02/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2427015
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.2 %*	*70-130*	*07/01/24*	*07/02/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2427016
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/02/24	
Surrogate: n-Nonane		*86.5 %*	*50-200*	*07/01/24*	*07/02/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2427010
Chloride	**172**	20.0	1	07/01/24	07/01/24	

Sample Data

Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	
6488 7 Rivers Hwy	Project Number:	01058-0007	**Reported:**
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/3/2024 10:15:58AM

SS09-0'

E406265-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2427015
Benzene	ND	0.0250	1	07/01/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/02/24	
Toluene	ND	0.0250	1	07/01/24	07/02/24	
o-Xylene	ND	0.0250	1	07/01/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/02/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.5 %*	*70-130*	*07/01/24*	*07/02/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2427015
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.4 %*	*70-130*	*07/01/24*	*07/02/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2427016
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/02/24	
Surrogate: n-Nonane		*87.7 %*	*50-200*	*07/01/24*	*07/02/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2427010
Chloride	**38.4**	20.0	1	07/01/24	07/01/24	

Sample Data

Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	
6488 7 Rivers Hwy	Project Number:	01058-0007	**Reported:**
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/3/2024 10:15:58AM

SS10-0'

E406265-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2427015
Benzene	ND	0.0250	1	07/01/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/02/24	
Toluene	ND	0.0250	1	07/01/24	07/02/24	
o-Xylene	ND	0.0250	1	07/01/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/02/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.5 %*	*70-130*	*07/01/24*	*07/02/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2427015
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.0 %*	*70-130*	*07/01/24*	*07/02/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2427016
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/02/24	
Surrogate: n-Nonane		*83.6 %*	*50-200*	*07/01/24*	*07/02/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2427010
Chloride	**292**	20.0	1	07/01/24	07/01/24	

Sample Data

Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	
6488 7 Rivers Hwy	Project Number:	01058-0007	**Reported:**
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/3/2024 10:15:58AM

SS11-0'

E406265-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2427015
Benzene	ND	0.0250	1	07/01/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/02/24	
Toluene	ND	0.0250	1	07/01/24	07/02/24	
o-Xylene	ND	0.0250	1	07/01/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/02/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.1 %*	*70-130*	*07/01/24*	*07/02/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2427015
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.3 %*	*70-130*	*07/01/24*	*07/02/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2427016
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/02/24	
Surrogate: n-Nonane		*89.3 %*	*50-200*	*07/01/24*	*07/02/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2427010
Chloride	**281**	20.0	1	07/01/24	07/01/24	

QC Summary Data

Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	**Reported:**
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/3/2024 10:15:58AM

Volatile Organics by EPA 8021B

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 (2427015-BLK1)									Prepared: 07/01/24 Analyzed: 07/02/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.47*		*8.00*		*93.4*	*70-130*			
LCS (2427015-BS1)									Prepared: 07/01/24 Analyzed: 07/02/24
Benzene	5.10	0.0250	5.00		102	70-130			
Ethylbenzene	5.06	0.0250	5.00		101	70-130			
Toluene	5.14	0.0250	5.00		103	70-130			
o-Xylene	5.07	0.0250	5.00		101	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.52*		*8.00*		*94.0*	*70-130*			
Matrix Spike (2427015-MS1)				**Source: E406265-02**					Prepared: 07/01/24 Analyzed: 07/02/24
Benzene	4.59	0.0250	5.00	ND	91.9	54-133			
Ethylbenzene	4.60	0.0250	5.00	ND	92.0	61-133			
Toluene	4.65	0.0250	5.00	ND	92.9	61-130			
o-Xylene	4.60	0.0250	5.00	ND	92.0	63-131			
p,m-Xylene	9.34	0.0500	10.0	ND	93.4	63-131			
Total Xylenes	13.9	0.0250	15.0	ND	92.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.49*		*8.00*		*93.6*	*70-130*			
Matrix Spike Dup (2427015-MSD1)				**Source: E406265-02**					Prepared: 07/01/24 Analyzed: 07/02/24
Benzene	4.59	0.0250	5.00	ND	91.7	54-133	0.147	20	
Ethylbenzene	4.60	0.0250	5.00	ND	92.0	61-133	0.0228	20	
Toluene	4.65	0.0250	5.00	ND	92.9	61-130	0.0226	20	
o-Xylene	4.59	0.0250	5.00	ND	91.9	63-131	0.110	20	
p,m-Xylene	9.33	0.0500	10.0	ND	93.3	63-131	0.0916	20	
Total Xylenes	13.9	0.0250	15.0	ND	92.8	63-131	0.0976	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.50*		*8.00*		*93.7*	*70-130*			

QC Summary Data

Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	**Reported:**
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/3/2024 10:15:58AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2427015-BLK1)									Prepared: 07/01/24 Analyzed: 07/02/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.57*		*8.00*		*94.6*	*70-130*			
LCS (2427015-BS2)									Prepared: 07/01/24 Analyzed: 07/02/24
Gasoline Range Organics (C6-C10)	40.9	20.0	50.0		81.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.60*		*8.00*		*95.0*	*70-130*			
Matrix Spike (2427015-MS2)				**Source: E406265-02**					Prepared: 07/01/24 Analyzed: 07/02/24
Gasoline Range Organics (C6-C10)	40.1	20.0	50.0	ND	80.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.63*		*8.00*		*95.4*	*70-130*			
Matrix Spike Dup (2427015-MSD2)				**Source: E406265-02**					Prepared: 07/01/24 Analyzed: 07/02/24
Gasoline Range Organics (C6-C10)	42.5	20.0	50.0	ND	85.0	70-130	5.75	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.63*		*8.00*		*95.3*	*70-130*			

QC Summary Data

Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	**Reported:**
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/3/2024 10:15:58AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2427016-BLK1)									Prepared: 07/01/24 Analyzed: 07/01/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*44.2*		*50.0*		*88.4*	*50-200*			
LCS (2427016-BS1)									Prepared: 07/01/24 Analyzed: 07/01/24
Diesel Range Organics (C10-C28)	243	25.0	250		97.2	38-132			
Surrogate: n-Nonane	*44.2*		*50.0*		*88.3*	*50-200*			
Matrix Spike (2427016-MS1)				**Source: E406264-06**					Prepared: 07/01/24 Analyzed: 07/01/24
Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132			
Surrogate: n-Nonane	*45.1*		*50.0*		*90.3*	*50-200*			
Matrix Spike Dup (2427016-MSD1)				**Source: E406264-06**					Prepared: 07/01/24 Analyzed: 07/01/24
Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	38-132	1.17	20	
Surrogate: n-Nonane	*45.4*		*50.0*		*90.7*	*50-200*			

QC Summary Data

Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	**Reported:**
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/3/2024 10:15:58AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2427010-BLK1)									Prepared: 07/01/24 Analyzed: 07/01/24
Chloride	ND	20.0							
LCS (2427010-BS1)									Prepared: 07/01/24 Analyzed: 07/01/24
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2427010-MS1)				**Source: E406262-02**					Prepared: 07/01/24 Analyzed: 07/01/24
Chloride	333	20.0	250	81.6	101	80-120			
Matrix Spike Dup (2427010-MSD1)				**Source: E406262-02**					Prepared: 07/01/24 Analyzed: 07/01/24
Chloride	335	20.0	250	81.6	102	80-120	0.688	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:	Muskie 23 CTB 5	
6488 7 Rivers Hwy	Project Number:	01058-0007	**Reported:**
Artesia NM, 88210	Project Manager:	Ashley Giovengo	07/03/24 10:15

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

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

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

Chain of Custody

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: Devon	Company: Devon	Lab WO# E40162650105S8-0007	1D 2D 3D Std: X	NM: X; CO; UT; TX
Project: Muskie 23 CTB 5	Address: 205 E Bender Road #150	Job Number		
Project Manager: Ashley Giovengo	City, State, Zip: Hobbs NM, 88240			
Address: 3122 National Parks Hwy	Phone: (575)748-1838			
City, State, Zip: Carlsbad NM, 88220	Email: dale.woodall@dvn.com			
Phone: 575-988-0055	Miscellaneous: Dale Woodall			
Email: agiovengo@ensolum.com				

Sample Information

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Remarks
13:29	6/27/2024	S	1	SS08 - 0'		1						X			
13:31	6/27/2024	S	1	SS09 - 0'		2						X			
13:36	6/27/2024	S	1	SS10 - 0'		3						X			
14:05	6/27/2024	S	1	SS11 - 0'		4						X			

Analysis and Method

EPA Program: SDWA | CWA | RCRA; Compliance Y or N; PWSID #

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

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

Sampled by: Chad Hamilton

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	6/28/24	1000	Michelle Gonzales	6.28.24	1000
Michelle Gonzales	6.28.24	1630		6.28.24	1630
	6.28.24	2230	Alexa Michaels	7/1/24	1030
	Date	Time		Date	Time

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

Lab Use Only

Received on ice: (Y) N

T1 T2 T3

AVG Temp °C 4

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

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

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 7/1/2024 11:28:52AM

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:	07/01/24 10:30	Work Order ID:	E406265
Phone:	(505) 382-1211	Date Logged In:	06/28/24 16:03	Logged In By:	Raina Schwanz
Email:	ashley.giovengo@wescominc.com	Due Date:	07/09/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

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

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Muskie 23 CTB 5

Work Order: E407042

Job Number: 01058-0007

Received: 7/9/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/11/24

Date Reported: 7/11/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Muskie 23 CTB 5
Workorder: E407042
Date Received: 7/9/2024 11:20:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/9/2024 11:20:00AM, under the Project Name: Muskie 23 CTB 5.

The analytical test results summarized in this report with the Project Name: Muskie 23 CTB 5 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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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

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

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	**Reported:**
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	07/11/24 15:42

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH06-0'	E407042-01A	Soil	07/03/24	07/09/24	Glass Jar, 2 oz.
BH06-4'	E407042-02A	Soil	07/03/24	07/09/24	Glass Jar, 2 oz.
BH07-0'	E407042-03A	Soil	07/03/24	07/09/24	Glass Jar, 2 oz.
BH07-1'	E407042-04A	Soil	07/03/24	07/09/24	Glass Jar, 2 oz.

Sample Data

Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	
6488 7 Rivers Hwy	Project Number:	01058-0007	**Reported:**
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/11/2024 3:42:31PM

BH06-0'

E407042-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2428035
Benzene	ND	0.0250	1	07/09/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/10/24	
Toluene	ND	0.0250	1	07/09/24	07/10/24	
o-Xylene	ND	0.0250	1	07/09/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		*96.9 %*	*70-130*	*07/09/24*	*07/10/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.5 %*	*70-130*	*07/09/24*	*07/10/24*	
Surrogate: Toluene-d8		*92.2 %*	*70-130*	*07/09/24*	*07/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2428035
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		*96.9 %*	*70-130*	*07/09/24*	*07/10/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.5 %*	*70-130*	*07/09/24*	*07/10/24*	
Surrogate: Toluene-d8		*92.2 %*	*70-130*	*07/09/24*	*07/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2428028
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
Surrogate: n-Nonane		*102 %*	*50-200*	*07/09/24*	*07/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2428037
Chloride	**189**	20.0	1	07/09/24	07/09/24	

Sample Data

Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	
6488 7 Rivers Hwy	Project Number:	01058-0007	**Reported:**
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/11/2024 3:42:31PM

BH06-4'

E407042-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2428035
Benzene	ND	0.0250	1	07/09/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/10/24	
Toluene	ND	0.0250	1	07/09/24	07/10/24	
o-Xylene	ND	0.0250	1	07/09/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		*95.9 %*	*70-130*	*07/09/24*	*07/10/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.2 %*	*70-130*	*07/09/24*	*07/10/24*	
Surrogate: Toluene-d8		*90.9 %*	*70-130*	*07/09/24*	*07/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2428035
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		*95.9 %*	*70-130*	*07/09/24*	*07/10/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.2 %*	*70-130*	*07/09/24*	*07/10/24*	
Surrogate: Toluene-d8		*90.9 %*	*70-130*	*07/09/24*	*07/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2428028
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
Surrogate: n-Nonane		*96.6 %*	*50-200*	*07/09/24*	*07/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2428037
Chloride	**278**	20.0	1	07/09/24	07/09/24	

Sample Data

Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	
6488 7 Rivers Hwy	Project Number:	01058-0007	**Reported:**
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/11/2024 3:42:31PM

BH07-0'

E407042-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2428035
Benzene	ND	0.0250	1	07/09/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/10/24	
Toluene	ND	0.0250	1	07/09/24	07/10/24	
o-Xylene	ND	0.0250	1	07/09/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		*95.6 %*	*70-130*	*07/09/24*	*07/10/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.8 %*	*70-130*	*07/09/24*	*07/10/24*	
Surrogate: Toluene-d8		*92.8 %*	*70-130*	*07/09/24*	*07/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2428035
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		*95.6 %*	*70-130*	*07/09/24*	*07/10/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.8 %*	*70-130*	*07/09/24*	*07/10/24*	
Surrogate: Toluene-d8		*92.8 %*	*70-130*	*07/09/24*	*07/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2428028
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
Surrogate: n-Nonane		*90.9 %*	*50-200*	*07/09/24*	*07/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2428037
Chloride	**1110**	20.0	1	07/09/24	07/10/24	

Sample Data

Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	
6488 7 Rivers Hwy	Project Number:	01058-0007	**Reported:**
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/11/2024 3:42:31PM

BH07-1'

E407042-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2428035
Benzene	ND	0.0250	1	07/09/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/10/24	
Toluene	ND	0.0250	1	07/09/24	07/10/24	
o-Xylene	ND	0.0250	1	07/09/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		*97.0 %*	*70-130*	*07/09/24*	*07/10/24*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*07/09/24*	*07/10/24*	
Surrogate: Toluene-d8		*90.2 %*	*70-130*	*07/09/24*	*07/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2428035
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		*97.0 %*	*70-130*	*07/09/24*	*07/10/24*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*07/09/24*	*07/10/24*	
Surrogate: Toluene-d8		*90.2 %*	*70-130*	*07/09/24*	*07/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2428028
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
Surrogate: n-Nonane		*102 %*	*50-200*	*07/09/24*	*07/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2428037
Chloride	**21.5**	20.0	1	07/09/24	07/10/24	

QC Summary Data

Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	**Reported:**
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/11/2024 3:42:31PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2428035-BLK1)									Prepared: 07/09/24 Analyzed: 07/09/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.498*		*0.500*		*99.5*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.475*		*0.500*		*94.9*	*70-130*			
Surrogate: Toluene-d8	*0.470*		*0.500*		*93.9*	*70-130*			
LCS (2428035-BS1)									Prepared: 07/09/24 Analyzed: 07/09/24
Benzene	2.66	0.0250	2.50		106	70-130			
Ethylbenzene	2.50	0.0250	2.50		100	70-130			
Toluene	2.36	0.0250	2.50		94.6	70-130			
o-Xylene	2.45	0.0250	2.50		97.9	70-130			
p,m-Xylene	4.91	0.0500	5.00		98.3	70-130			
Total Xylenes	7.36	0.0250	7.50		98.2	70-130			
Surrogate: Bromofluorobenzene	*0.493*		*0.500*		*98.6*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.474*		*0.500*		*94.8*	*70-130*			
Surrogate: Toluene-d8	*0.480*		*0.500*		*95.9*	*70-130*			
Matrix Spike (2428035-MS1)				**Source: E407038-04**					Prepared: 07/09/24 Analyzed: 07/09/24
Benzene	2.75	0.0250	2.50	ND	110	48-131			
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135			
Toluene	2.42	0.0250	2.50	ND	96.7	48-130			
o-Xylene	2.51	0.0250	2.50	ND	100	43-135			
p,m-Xylene	5.03	0.0500	5.00	ND	101	43-135			
Total Xylenes	7.53	0.0250	7.50	ND	100	43-135			
Surrogate: Bromofluorobenzene	*0.499*		*0.500*		*99.7*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.480*		*0.500*		*96.0*	*70-130*			
Surrogate: Toluene-d8	*0.475*		*0.500*		*95.0*	*70-130*			
Matrix Spike Dup (2428035-MSD1)				**Source: E407038-04**					Prepared: 07/09/24 Analyzed: 07/09/24
Benzene	2.80	0.0250	2.50	ND	112	48-131	1.50	23	
Ethylbenzene	2.65	0.0250	2.50	ND	106	45-135	3.91	27	
Toluene	2.49	0.0250	2.50	ND	99.7	48-130	3.06	24	
o-Xylene	2.65	0.0250	2.50	ND	106	43-135	5.62	27	
p,m-Xylene	5.32	0.0500	5.00	ND	106	43-135	5.59	27	
Total Xylenes	7.97	0.0250	7.50	ND	106	43-135	5.60	27	
Surrogate: Bromofluorobenzene	*0.504*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.482*		*0.500*		*96.3*	*70-130*			
Surrogate: Toluene-d8	*0.476*		*0.500*		*95.2*	*70-130*			

QC Summary Data

Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	**Reported:**
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/11/2024 3:42:31PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2428035-BLK1)									Prepared: 07/09/24 Analyzed: 07/09/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.498*		*0.500*		*99.5*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.475*		*0.500*		*94.9*	*70-130*			
Surrogate: Toluene-d8	*0.470*		*0.500*		*93.9*	*70-130*			
LCS (2428035-BS2)									Prepared: 07/09/24 Analyzed: 07/09/24
Gasoline Range Organics (C6-C10)	52.9	20.0	50.0		106	70-130			
Surrogate: Bromofluorobenzene	*0.510*		*0.500*		*102*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.458*		*0.500*		*91.5*	*70-130*			
Surrogate: Toluene-d8	*0.485*		*0.500*		*96.9*	*70-130*			
Matrix Spike (2428035-MS2)				**Source: E407038-04**					Prepared: 07/09/24 Analyzed: 07/09/24
Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.4	70-130			
Surrogate: Bromofluorobenzene	*0.512*		*0.500*		*102*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.489*		*0.500*		*97.7*	*70-130*			
Surrogate: Toluene-d8	*0.478*		*0.500*		*95.5*	*70-130*			
Matrix Spike Dup (2428035-MSD2)				**Source: E407038-04**					Prepared: 07/09/24 Analyzed: 07/09/24
Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130	3.45	20	
Surrogate: Bromofluorobenzene	*0.503*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.485*		*0.500*		*97.0*	*70-130*			
Surrogate: Toluene-d8	*0.483*		*0.500*		*96.5*	*70-130*			

QC Summary Data

Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	**Reported:**
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/11/2024 3:42:31PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2428028-BLK1)									Prepared: 07/09/24 Analyzed: 07/10/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*49.3*		*50.0*		*98.6*	*50-200*			
LCS (2428028-BS1)									Prepared: 07/09/24 Analyzed: 07/10/24
Diesel Range Organics (C10-C28)	296	25.0	250		118	38-132			
Surrogate: n-Nonane	*63.5*		*50.0*		*127*	*50-200*			
Matrix Spike (2428028-MS1)				**Source: E407038-04**					Prepared: 07/09/24 Analyzed: 07/10/24
Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	38-132			
Surrogate: n-Nonane	*55.1*		*50.0*		*110*	*50-200*			
Matrix Spike Dup (2428028-MSD1)				**Source: E407038-04**					Prepared: 07/09/24 Analyzed: 07/10/24
Diesel Range Organics (C10-C28)	296	25.0	250	ND	119	38-132	0.669	20	
Surrogate: n-Nonane	*58.3*		*50.0*		*117*	*50-200*			

QC Summary Data

Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	**Reported:**
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/11/2024 3:42:31PM

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 (2428037-BLK1)									Prepared: 07/09/24 Analyzed: 07/09/24
Chloride	ND	20.0							
LCS (2428037-BS1)									Prepared: 07/09/24 Analyzed: 07/09/24
Chloride	247	20.0	250		98.9	90-110			
Matrix Spike (2428037-MS1)				**Source: E407038-04**					Prepared: 07/09/24 Analyzed: 07/09/24
Chloride	373	20.0	250	120	101	80-120			
Matrix Spike Dup (2428037-MSD1)				**Source: E407038-04**					Prepared: 07/09/24 Analyzed: 07/09/24
Chloride	377	20.0	250	120	103	80-120	0.933	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:	Muskie 23 CTB 5	
6488 7 Rivers Hwy	Project Number:	01058-0007	**Reported:**
Artesia NM, 88210	Project Manager:	Ashley Giovengo	07/11/24 15:42

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

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

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

Chain of Custody

Client Information	Invoice Information	Lab Use Only		TAT				State				
Client: Devon	Company: Devon	Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX	
Project: Muskie 23 CTB 5	Address: 205 E Bender Road #150	E407042	01058-0007				x	x				
Project Manager: Ashley Giovengo	City, State, Zip: Hobbs NM, 88240											
Address: 3122 National Parks Hwy	Phone: (575)748-1838											
City, State, Zip: Carlsbad NM, 88220	Email: dale.woodall@dvn.com											
Phone: 575-988-0055	Miscellaneous: Dale Woodall											
Email: agiovengo@ensolum.com												

Sample Information							Analysis and Method										EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				SDWA	CWA	RCRA	
10:04	7/3/2024	S	1	BH06 - 0'		1						X									
10:24	7/3/2024	S	1	BH06 - 4'		2						X						Compliance	Y	or	N
10:48	7/3/2024	S	1	BH07 - 0'		3						X						PWSID #			
10:55	7/3/2024	S	1	BH07 - 1'		4						X						Remarks			

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

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

Sampled by: _Cole Burton_

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	7/8/24	7:19	[signature]	7-8-24	0719
Michelle Gonzales	7-8-24	1755	[signature]	7.8.24	1755
[signature]	7.8.24	2400	[signature]	7-9-24	1120
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

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

Lab Use Only

Received on ice: (Y) / N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

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

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

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 7/9/2024 4:55:51PM

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:	07/09/24 11:20	Work Order ID:	E407042
Phone:	(505) 382-1211	Date Logged In:	07/08/24 16:47	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	07/15/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

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

ENSOLUM

APPENDIX F

NMOCD Notifications

District I
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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS

Action 357343

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 357343
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2408624331**
Incident Name	**NAPP2408624331 MUSKIE 23 CTB 5 @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Facility	**[fAPP2317134046] MUSKIE 23 CTB 5**

Location of Release Source	
Site Name	**MUSKIE 23 CTB 5**
Date Release Discovered	**03/25/2024**
Surface Owner	**Federal**

Liner Inspection Event Information *Please answer all the questions in this group.*	
What is the liner inspection surface area in square feet	16,500
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	06/27/2024
Time liner inspection will commence	09:00 AM
Please provide any information necessary for observers to liner inspection	Chad Hamilton Staff Geologist 940-923-0072
Please provide any information necessary for navigation to liner inspection site	A-23-26S-34E (32.0331535, -103.4354694)

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CONDITIONS

Action 357343

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 357343
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
wdale	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	6/25/2024

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QUESTIONS

Action 373461

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 373461
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2408624331**
Incident Name	**NAPP2408624331 MUSKIE 23 CTB 5 @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Facility	**[fAPP2317134046] MUSKIE 23 CTB 5**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	MUSKIE 23 CTB 5
Date Release Discovered	03/25/2024
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Equipment Failure | Pipeline (Any) | Produced Water | Released: 64 BBL | Recovered: 64 BBL | Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Found a 3" T after the meter had developed a pinhole and leaked produced water into the vessel containment. Estimated spill is 64 bbls produced water. 64 bbls recovered. The meter was bypassed to stop the leak. Well was shut in too.

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QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 373461
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com Date: 08/13/2024

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QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 373461
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	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 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	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)	1110
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	06/27/2024
On what date will (or did) the final sampling or liner inspection occur	06/27/2024
On what date will (or was) the remediation complete(d)	06/27/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 373461
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	samples collected beneath the liner indicated results below OCD action levels for depth to water greater than 100 feet.
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com Date: 08/13/2024

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

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QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 373461
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 373461
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	***{Unavailable.}***

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	0
What was the total volume (cubic yards) remediated	0
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	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	samples collected beneath the liner indicated results below OCD action levels for depth to water greater than 100 feet.
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@dvn.com Date: 08/13/2024

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QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 373461
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 373461

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	6137
	Action Number: 373461
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2408624331 MUSKIE 23 CTB 5, thank you. This Remediation Closure Report is approved.	8/29/2024