



4518 W. Pierce St. Carlsbad NM, 88220

June 7, 2024
Forty Acres Energy, LLC
11757 Katy Freeway
Houston, TX 77079

Attn: New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico, NM 87505

RE: **Release Investigation, and Closure Report**
Forty Acres Energy, LLC
West Eumont Unit 522
Unit M, Section 35, Township 20 South, Range 36 East
32.53676069°, -103.3289°
Lee County, New Mexico
Terracon Project No. KH247013

To Whom It May Concern:

Terracon Consultants, Inc. (Terracon), on behalf of Forty Acres Energy, LLC (FAE), is submitting our Release Investigation and Closure Report for the above-referenced site. Prepared in line with New Mexico Oil Conservation Division (NMOCD) regulations, this report addresses the environmental actions taken in response to the release of produced water due to an injection line failure on July 27, 2022, as indicated in the Remediation Work Plan submitted by Environmental & Safety Solutions (Etech) and approved on December 22, 2023. Detailed assessment and remedial actions by Terracon are outlined in the following sections.

Action Items

Completed Actions

- 1) Conducted an initial site assessment and a series of sampling events.
- 2) Maps and associated data for approval are provided.
- 3) Soil samples collected from the excavations were submitted to an approved laboratory for analysis to determine levels of impact vertically and horizontally.
- 4) Excavation of the inferred release area was completed with the intent to remove impacted soil as determined by the Closure Criteria set by NMOCD.
- 5) Five-point composite confirmation samples were collected every 200 square feet.
- 6) Remedial activities were terminated when a confirmation sample was collected below the NMOCD RALs for Oil and Gas impacted soils.
- 7) A summary of the information provided in this report is included in Appendix A, as C-141 summary sheet.

Anticipated Actions

Explore with us

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West Eumont Unit 522 | Lea County, New Mexico
May 14, 2024 | Terracon Project No. KH247013



1) Approval by the NMOCD.

2) Following the acceptance of this closure report the excavation will be backfilled to approximate grade and reseeded.

Site Information

The Notice of the Release was provided to the NMOCD District 2 Artesia Office with the submission of the initial C-141 by FAE which was received by the NMPCD on August 1, 2024, NMOCD Reference ID: nAPP2222156433. The site is located within Unit M, Section 35, Township 20 South, Range 36 East, in Lea County, New Mexico. A Topographic Map and Site Location Map are included in Appendix A as Exhibit 1 and Exhibit 2, respectively.

Regulatory Criteria

Based on the New Mexico Office of the State Engineer (NMOSE) a permitted soil boring L-15554-POD1 was installed by Coffey Drilling located approximately 0.05 miles northwest of the release site as indicated in the NMOSE Pod Location Map (Exhibit 3, Appendix A). The boring was advanced to a depth of 105 feet below ground surface (bgs) on August 25, 2023. Groundwater was not encountered during the installation of the boring, the boring was left open for 72-hours and determined to be a dry hole. The State of New Mexico Well Record and Log is included in Appendix C. The A review of the U.S. Fish and Wildlife Service, National Wetlands Inventory website indicates that there is a freshwater emergent wetland located approximately 1.70 miles southwest of the site as indicated in the Designated Wetland Area Map included in Appendix A, Exhibit 4. A review of geospatial data obtained from the BLM Carlsbad Field Office website indicated that the site is within an area of low risk for Karst formations, as indicated in the Cave Karst Public UCP Map included in Appendix A, Exhibit 5.

Reclamation Standards

Per New Mexico Administrative Code (NMAC) 19.15.29.12, the closure criteria for the site are based on the remedial requirements for an off-pad release consisting of the removal of the affected soil from the surface to 4 feet below grade surface (bgs). The closure criteria are for Total Benzene, Toluene, Ethylbenzene and Xylenes (Total BTEX) (50 mg/kg) (EPA Method 8021B), Benzene (10 mg/kg) (EPA Method 8021B), Chlorides (600 mg/kg) EPA Method 300), and Total Petroleum Hydrocarbons (TPH) GRO, DRO and MRO (100 mg/kg) (EPA Method 8015M).

Remedial / Delineation Activities

Terracon conducted oversight of the remedial activities at the site from February 27, 2024, through March 20, 2024. The remediation work plan submitted by Etech identified three areas of concern (PH02, PH03 and PH07). Terracon identified a fourth area of visual impact near the eastern area of the release. Four areas totaling approximately 1,800 square feet were affected by the release. A total of 11 delineation samples from 11 locations were collected and submitted for analysis of BTEX, Chlorides, and TPH. Delineation sample results for BTEX and TPH were below applicable NMOCD closure criteria. Five delineation samples exceeded

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the closure criteria for Chloride ranging from 640 mg/kg in F17-S-SW (0-4') to 2,480 mg/kg in DS-01 (4'). A Delineation Sample Map depicting the sample locations, analytical results for Chlorides, and the excavation extent are included in Appendix A, Exhibit 6. Delineation sample results are included in Appendix B, Table 1.

Confirmation/Closure Activities

Areas exhibiting visual impact and the areas that exceeded the closure criteria were excavated to a depth of 4 feet bgs. A total of 29 confirmation soil samples were collected on April 22, 2024, and submitted for analysis of BTEX, Chlorides, and TPH. Floor and walls confirmation sample results for BTEX, Chlorides and TPH were below applicable NMOCD closure criteria.

An estimated 350 cubic yards (cu. yds.) of loose soil were excavated during remedial activities, being from surface to four feet below grade surface. Excavated material was disposed of at an approved waste disposal facility. A Confirmation Sample Map depicting the floor and wall sample locations and analytical results for Chlorides is included in Exhibit 6A and 6B, respectively. Floor and wall confirmation sample analytical results are included in Appendix B, Table 2, and Table 3, respectively. Photographs of the project site are included in Appendix D. Analytical Reports and Chain of Custody's are included in Appendix E. Terracon Standard and Care , Limitation's and Reliance is included in Appendix F.

Conclusion

In accordance with NMAC 19.15.29.12, remediation of the impacted material is complete, and Forty Acres Energy, LLC respectfully requests closure of the reportable incident that occurred on July 27, 2022, at the NMOCD Reference # nAPP2402333573 West Eumont Unit 522 location.

We are grateful for the opportunity to offer our environmental services to Forty Acres Energy, LLC. We are committed to providing the highest level of service and support. Should you need further information or have any queries, we encourage you to reach out to our office at your earliest convenience.

Sincerely,



Prepared by:

Reviewed by:

Charles F. Smith
Senior Consultant
Carlsbad, NM

John Grams, P.G. (TX)
Environmental Department Manager
Lubbock, TX

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Attachments:

Appendix A – Exhibits

- Exhibit 1 – Topographic Map
- Exhibit 2 – Site Location Map
- Exhibit 3 – NMOSE POD Location Map
- Exhibit 4 – Designated Wetland Area Map
- Exhibit 5 – Cave Karst Public UCP Map
- Exhibit 6 – Delineation Sample Map
- Exhibit 6A – Confirmation Floor Sample Map
- Exhibit 6B – Confirmation Wall Sample Map

C-141 Summary Sheet

Appendix B – Tables

- Table 1 – Delineation Samples
- Table 2 – Confirmation Floor Samples
- Table 3 – Confirmation Wall Samples

Appendix C – State of New Mexico Well Record and Log

Appendix D – Photographic Log

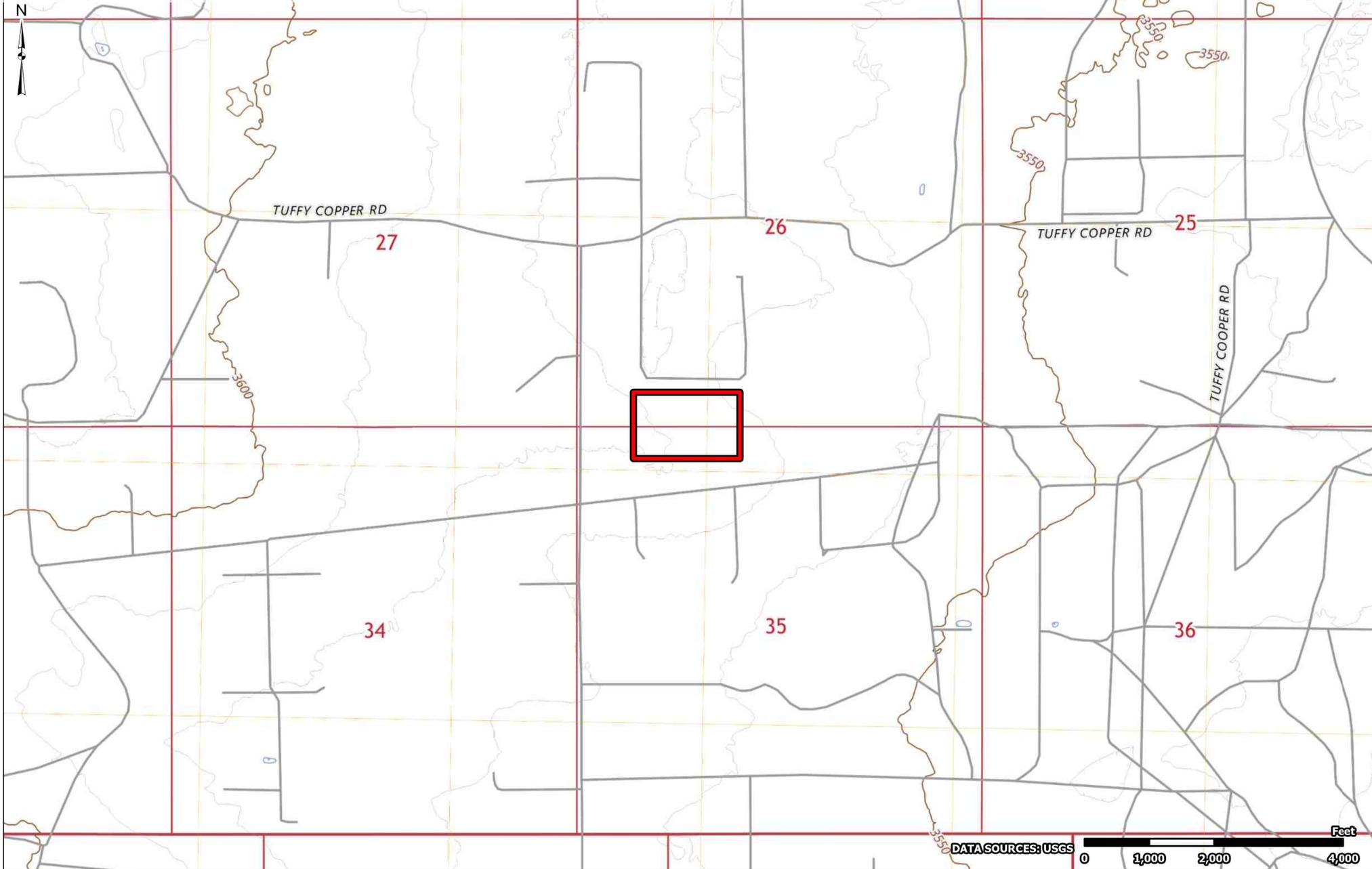
Appendix E – Analytical Report and Chain of Custody

Appendix F – Terracon Standard of Care, Limitation, & Reliance

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APPENDIX A – EXHIBITS



 Site Boundary

Project No.:
KH247013
Date:
May 10 2024
Drawn By:
JWL
Reviewed By:
TLC



4526 W Pierce St
Carlsbad, NM
PH. 806-300-0140 terracon.com

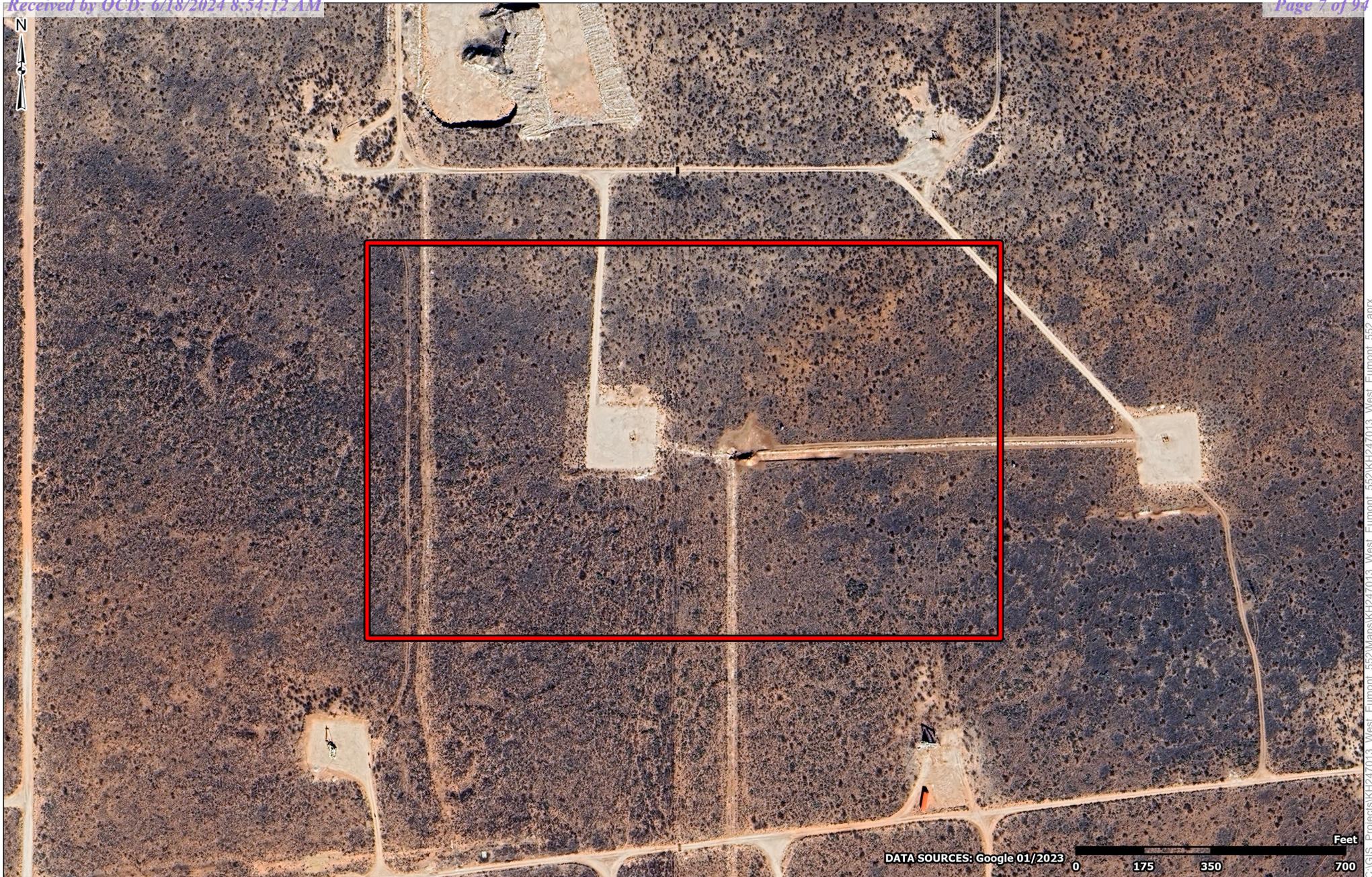
Topographic Map

West Eumont #552
Forty Acres Energy LLC
32.53676069, -103.3289

Exhibit

1

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DATA SOURCES: Google 01/2023

Feet
0 175 350 700



 Site Boundary

Project No.:
KH247013

Date:
May 10 2024

Drawn By:
JWL

Reviewed By:
TLC



4526 W Pierce St
Carlsbad, NM

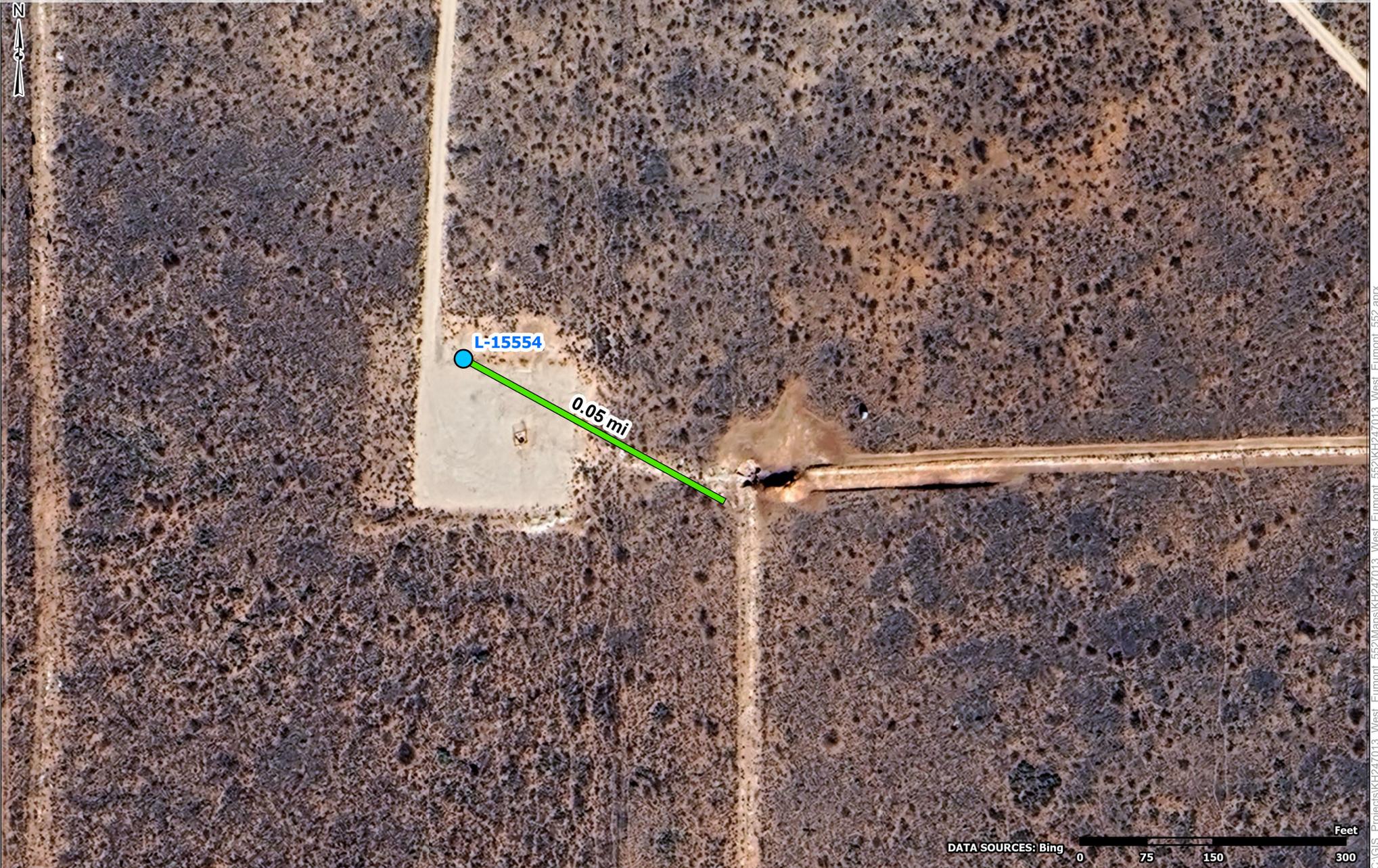
PH. 806-300-0140 terracon.com

Site Location Map

West Eumont #552
Forty Acres Energy LLC
32.53676069, -103.3289

Exhibit

2



● NMOSE POD Location

Project No.:
KH247013
Date:
May 10 2024
Drawn By:
JWL
Reviewed By:
TLC



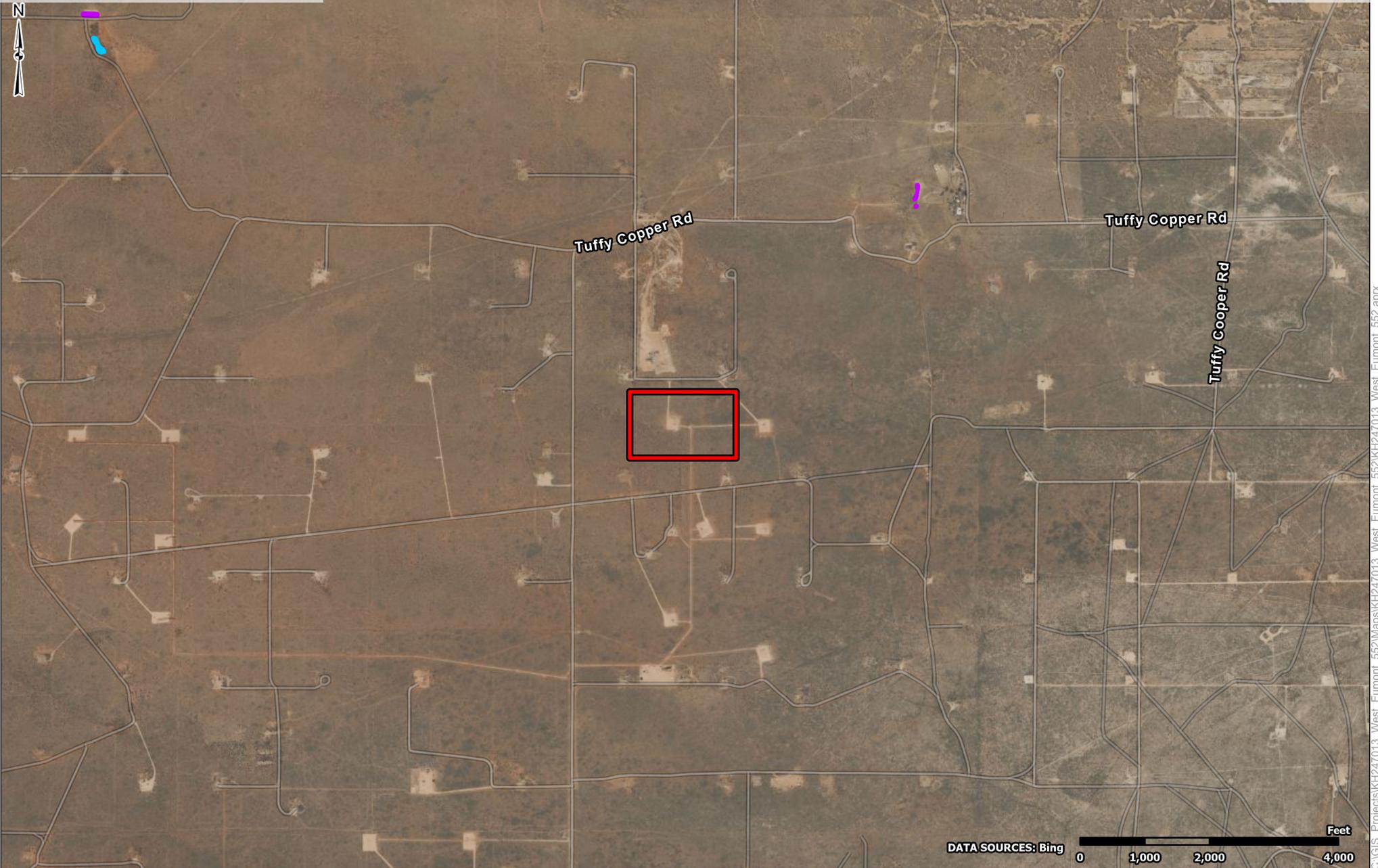
4526 W Pierce St
Carlsbad, NM
PH. 806-300-0140 terracon.com

NMOSE POD Location Map

West Eumont #552
Forty Acres Energy LLC
32.53676069, -103.3289

Exhibit

3



-  Site Boundary
-  Freshwater Emergent Wetland
-  Freshwater Pond

Project No.:
KH247013
Date:
May 10 2024
Drawn By:
JWL
Reviewed By:
TLC



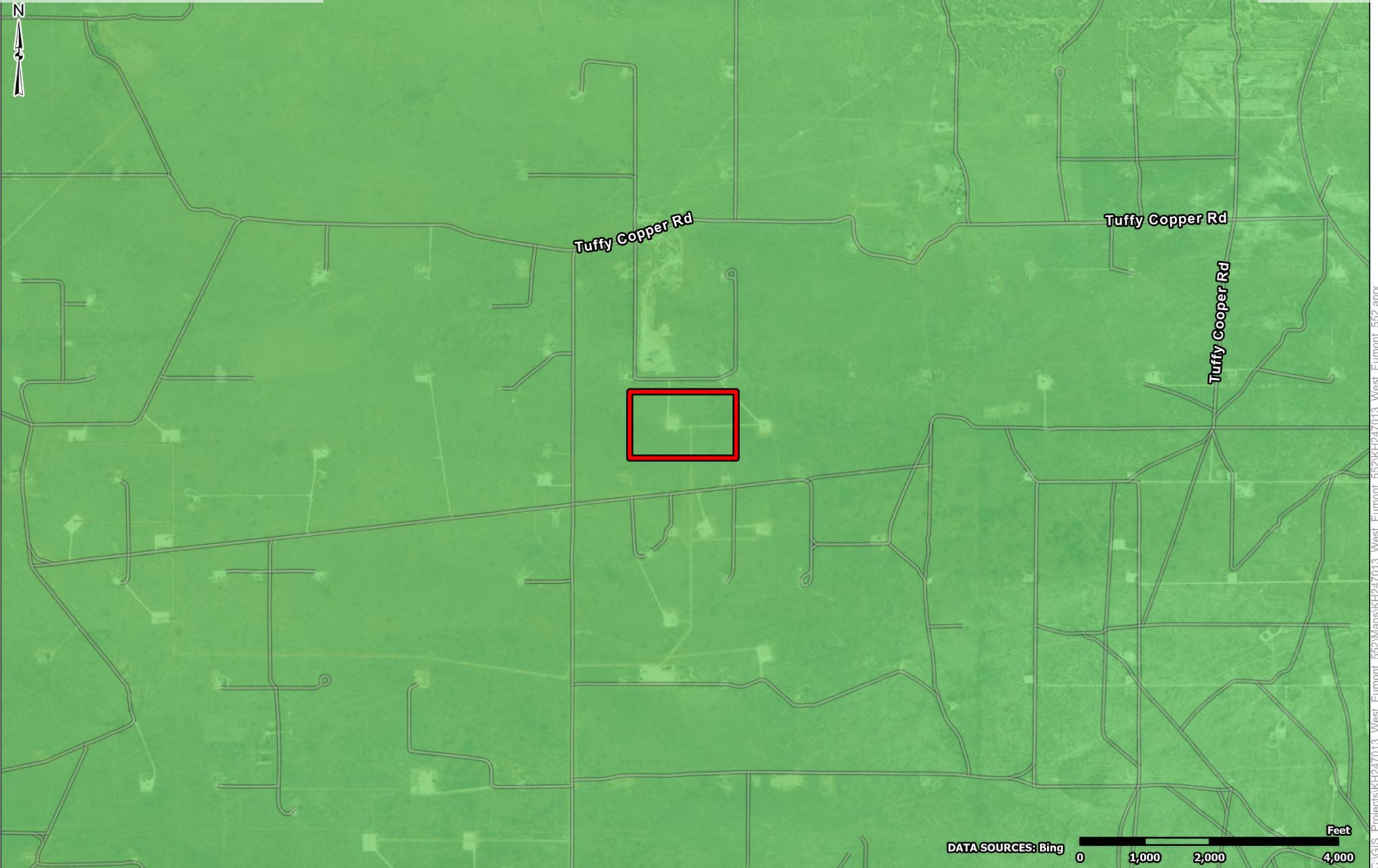
4526 W Pierce St
Carlsbad, NM
PH. 806-300-0140 terracon.com

Designated Wetlands Area Map

West Eumont #552
Forty Acres Energy LLC
32.53676069, -103.3289

Exhibit

4



-  Site Boundary
- Karst Potential
-  Low
-  Medium
-  High

Project No.:
KH247013

Date:
May 10 2024

Drawn By:
JWL

Reviewed By:
TLC



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Carlsbad, NM

PH. 806-300-0140 terracon.com

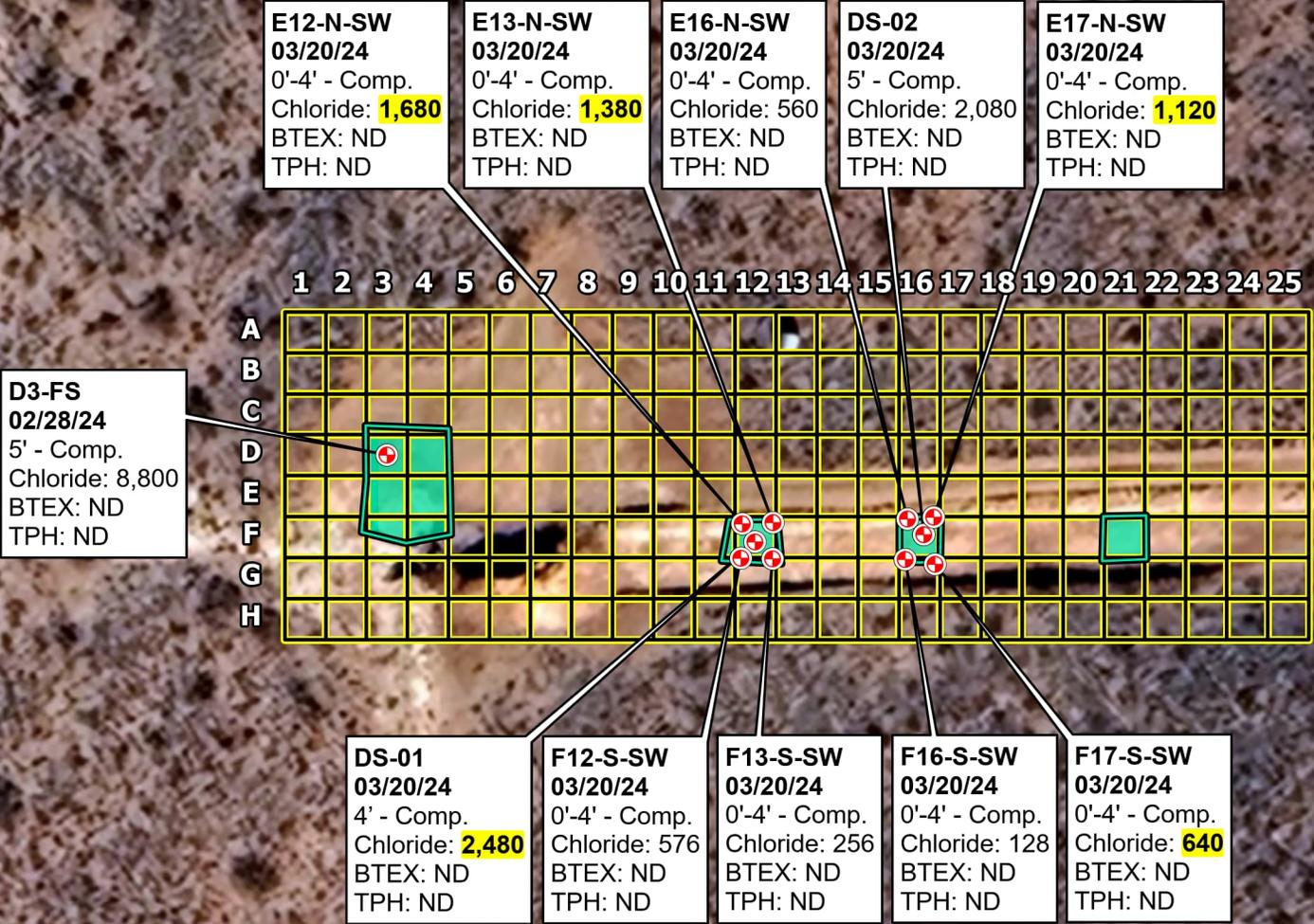
Cave Karst Public UCP Map

West Eumont #552
Forty Acres Energy LLC
32.53676069, -103.3289

Exhibit

5

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NMOCD RAL <=4' BGS
600 mg/kg for Chloride
NMOCD RAL >4' BGS
20,000 mg/kg for Chloride

Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation

DATA SOURCES: Google 01/2023

0 30 60 120 Feet



- Delineation Sample
- Excavation Boundary
- 200 Sq Ft Grid

Project No.: KH247013
Date: May 14 2024
Drawn By: JWJ
Reviewed By: TLC

4526 W Pierce St
Carlsbad, NM

PH. 806-300-0140 terracon.com

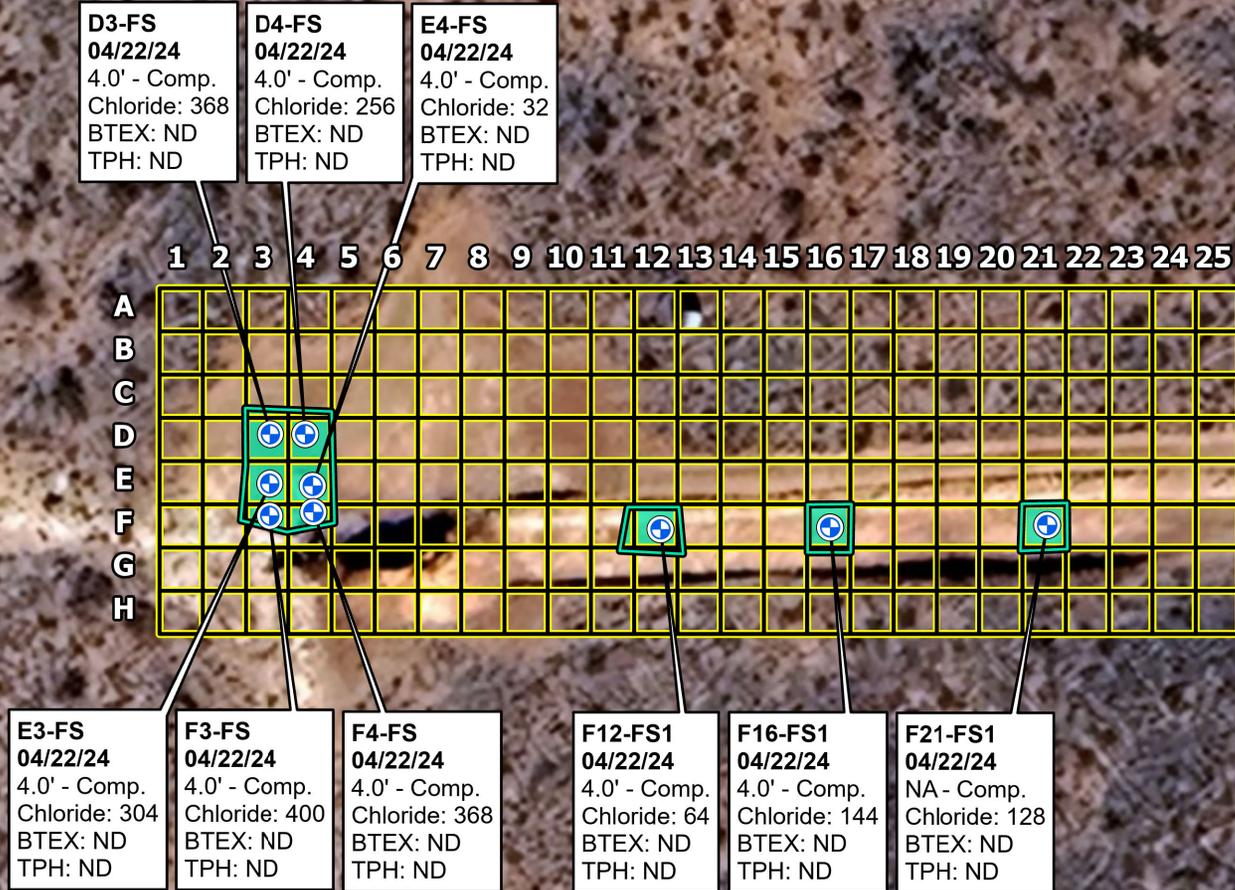
Delineation Sample Map

West Eumont #552
Forty Acres Energy LLC
32.53676069, -103.3289

Exhibit

6

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NMOCD RAL <=4' BGS
600 mg/kg for Chloride
NMOCD RAL >4' BGS
20,000 mg/kg for Chloride

Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation

DATA SOURCES: Google 01/2023

0 30 60 120 Feet



- Confirmation Floor Sample
- Excavation Boundary
- 200 Sq Ft Grid

Project No.: KH247013
Date: May 10 2024
Drawn By: JWL
Reviewed By: TLC

4526 W Pierce St
Carlsbad, NM

PH. 806-300-0140 terracon.com

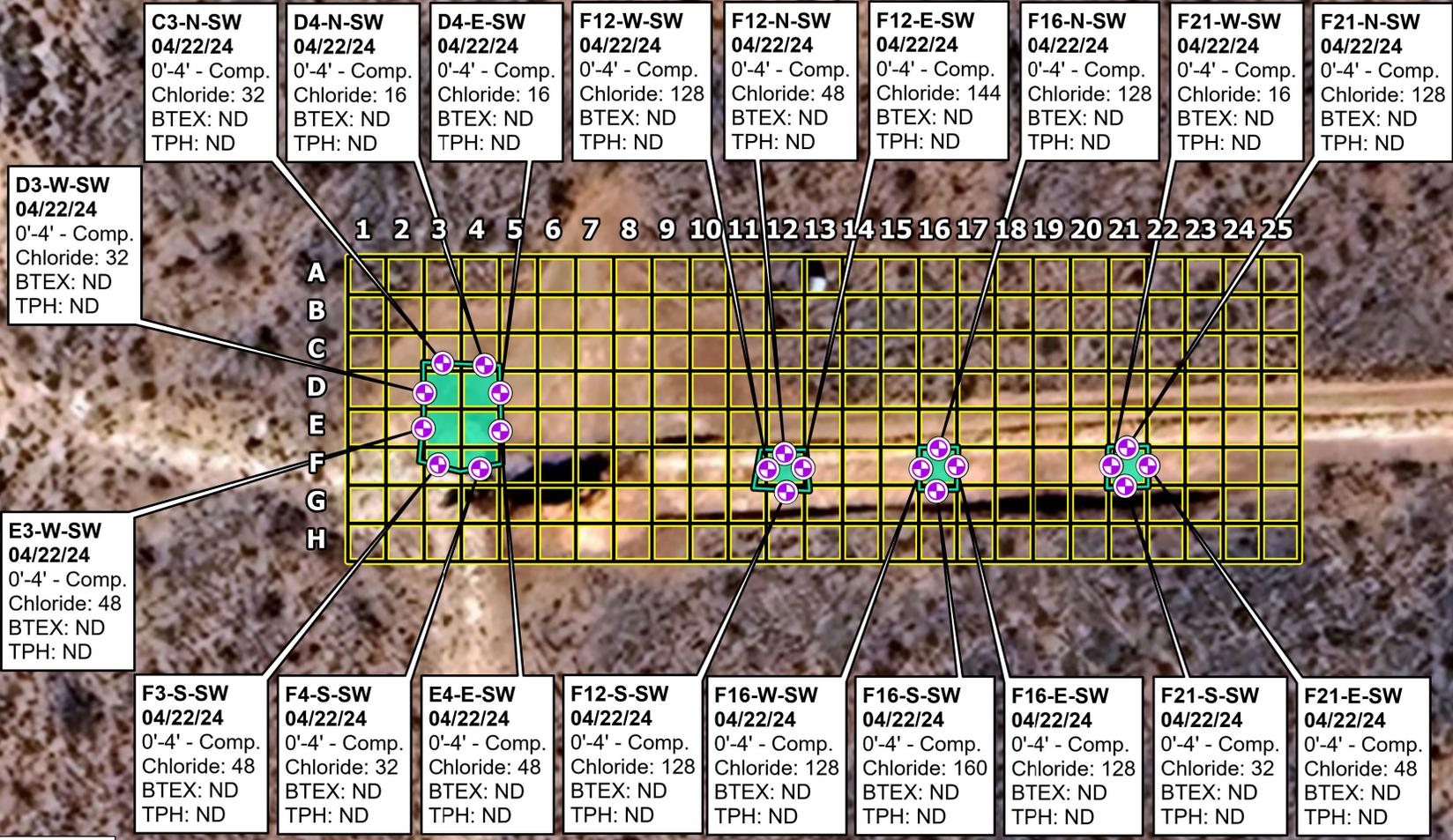
Confirmation Floor Sample Map

West Eumont #552
Forty Acres Energy LLC
32.53676069, -103.3289

Exhibit

6A

C:\GIS - Projects\KH247013 - West Eumont - 552\Map\KH247013 - West Eumont - 552.aprx



NMOCD RAL <=4' BGS
600 mg/kg for Chloride
NMOCD RAL >4' BGS
20,000 mg/kg for Chloride

Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation

DATA SOURCES: Google 01/2023

0 30 60 120 Feet



- Confirmation Wall Sample
- Excavation Boundary
- 200 Sq Ft Grid

Project No.: KH247013
Date: May 10 2024
Drawn By: JWL
Reviewed By: TLC

4526 W Pierce St
Carlsbad, NM

PH. 806-300-0140 terracon.com

Confirmation Wall Sample Map

West Eumont #552
Forty Acres Energy LLC
32.53676069, -103.3289

Exhibit

6B

C:\GIS - Projects\KH247013 - West Eumont - 552\Map\KH247013 - West Eumont - 552\KH247013 - West Eumont - 552.aprx



NMOCD REPORT DETAILS

Submission Contact, Application, Fee and Payment Details

Name:	Brittney Storfa
Email:	brittney@faeenergyus.com
Phone:	(832) 241-8080

Initial Release C-141

Application Details

Incident ID:	nAPP2222156433		
District:	Artesia		
County:	Lea		
Legal Description:	Unit:M	Section:35	Township:20S Range:36E
Lat/Long:	N:32.53676069°		E:-103.3289°

Prerequisites

Incident Operator:	FAE Spur Energy Partners NV - 08/13/2024
Release Type:	Produced Water
Incident Status:	Closure Report Pending OCD Review

Closure/Deferral Request C-141

Deferral Request (attachment with explanation)	N/A	
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	
Total Surface Area (sq. ft.) to be remediated	1,800	(Square Feet)
Total Volume (cu. yds.) to be remediated	350	(Cubic Yards)
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	
Estimated Surface Area (sq. ft.) to be reclaimed	0	(Square Feet)
Estimated Volume (cu. yds.) to be reclaimed	0	(Cubic Yards)
Attached Summary of additional remediation Activities	Yes	
Requesting approval of Reclamation Completion	Yes	

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APPENDIX B – TABLES AND WELL DATA

Table 1 Soil Analytical Results Summary - Release Assessment Project Code: KH247013 NMOCD Reference No. nAPP2402333573												
Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX ¹ (mg/Kg)	Total TPH ² (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)	
					EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	
Release Assessment												
1	1		D3 FS	2/28/2024	5.0	Composite	Ex-situ	8800	ND	ND	ND	ND
1	2		DS01	3/20/2024	4.0	Composite	Ex-situ	2480	ND	ND	ND	ND
1	3		DS02	3/20/2024	5.0	Composite	Ex-situ	2080	ND	ND	ND	ND
2	4		E12 N-SW	3/20/2024	0-4	Composite	Ex-situ	1680	ND	ND	ND	ND
3	5		E13 N-SW	3/20/2024	0-4	Composite	Ex-situ	1380	ND	ND	ND	ND
6	6		F12 S-SW	3/20/2024	0-4	Composite	Ex-situ	576	ND	ND	ND	ND
7	7		F13 S-SW	3/20/2024	0-4	Composite	Ex-situ	256	ND	ND	ND	ND
8	8		E16 N-SW	3/20/2024	0-4	Composite	Ex-situ	560	ND	ND	ND	ND
4	9		E17 N-SW	3/20/2024	0-4	Composite	Ex-situ	1120	ND	ND	ND	ND
10	10		F16 S-SW	3/20/2024	0-4	Composite	Ex-situ	128	ND	ND	ND	ND
5	11		F17 S-SW	3/20/2024	0-4	Composite	Ex-situ	640	ND	ND	ND	ND
NMOCD Reclamation Standards³ (Surface to 4 ft bgs)					600	10	10	100		100	100	
NMOCD Remediation Standards⁴ (Greater than Depths of 4 ft bgs)					20,000	10	10	2,500		1,000	1000	
1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes 2. TPH = Total petroleum hydrocarbons 3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs 4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018 < = Constituent was not detected above the indicated laboratory sample detection limit (SDL). NA = Not Analyzed Bold denotes concentrations above applicable laboratory SDLs. Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards. In-situ = Sample is representative of material which remains in-place at the site. Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.												

Table 2
Soil Analytical Results Summary - Confirmation Evaluation (Floor Samples)
 Project Code: KH247013
 NMOCD Reference No. nAPP2402333573

Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX ¹ (mg/Kg)	Total TPH ² (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
					EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
Confirmation Floor Samples											
D3-FS	4/22/2024	4.0	Composite	Ex-situ	368	ND	ND	ND	ND	ND	ND
D4-FS	4/22/2024	4.0	Composite	Ex-situ	256	ND	ND	ND	ND	ND	ND
E3-FS	4/22/2024	4.0	Composite	Ex-situ	304	ND	ND	ND	ND	ND	ND
E4-FS	4/22/2024	4.0	Composite	Ex-situ	32	ND	ND	ND	ND	ND	ND
F3-FS	4/22/2024	4.0	Composite	Ex-situ	400	ND	ND	ND	ND	ND	ND
F4-FS	4/22/2024	4.0	Composite	Ex-situ	368	ND	ND	ND	ND	ND	ND
F12-FS	4/22/2024	4.0	Composite	Ex-situ	64	ND	ND	ND	ND	ND	ND
F16-FS	4/22/2024	4.0	Composite	Ex-situ	144	ND	ND	ND	ND	ND	ND
F21-FS	4/22/2024	4.0	Composite	Ex-situ	128	ND	ND	ND	ND	ND	ND
NMOCD Reclamation Standards³ (Surface to 4 ft bgs)					600	10	10	100		100	N/A
NMOCD Remediation Standards⁴ (Greater than Depths of 4 ft)					20,000	10	10	2,500		1,000	N/A

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes
 2. TPH = Total petroleum hydrocarbons
 3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs
 4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018
 < = Constituent was not detected above the indicated laboratory sample detection limit (SDL).
 NA = Not Analyzed

Bold denotes concentrations above applicable laboratory SDLs.
Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.

In-situ = Sample is representative of material which remains in-place at the site.
 Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.

Table 3 Soil Analytical Results Summary - Confirmation Evaluation (Wall Samples) Project Code: KH247013 NMOCD Reference No. nAPP2402333573												
Sample ID	Sample Date	Sample Start Depth (ft bgs)	Sample End Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX ¹ (mg/Kg)	Total TPH ² (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
						EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
Confirmation Wall Samples												
C3-N-SW	4/22/2024	0.0	4.0	Composite	Ex-Situ	32	ND	ND	ND	ND	ND	ND
D4-N-SW	4/22/2024	0.0	4.0	Composite	Ex-Situ	16	ND	ND	ND	ND	ND	ND
D4-E-SW	4/22/2024	0.0	4.0	Composite	Ex-Situ	32	ND	ND	ND	ND	ND	ND
E4-E-SW	4/22/2024	0.0	4.0	Composite	Ex-Situ	48	ND	ND	ND	ND	ND	ND
F4-S-SW	4/22/2024	0.0	4.0	Composite	Ex-Situ	32	ND	ND	ND	ND	ND	ND
E3-W-SW	4/22/2024	0.0	4.0	Composite	Ex-Situ	48	ND	ND	ND	ND	ND	ND
D3-W-SW	4/22/2024	0.0	4.0	Composite	Ex-Situ	32	ND	ND	ND	ND	ND	ND
F3-S-SW	4/22/2024	0.0	4.0	Composite	Ex-Situ	48	ND	ND	ND	ND	ND	ND
F12-N-SW	4/22/2024	0.0	4.0	Composite	Ex-Situ	48	ND	ND	ND	ND	ND	ND
F12-E-SW	4/22/2024	0.0	4.0	Composite	Ex-Situ	144	ND	ND	ND	ND	ND	ND
F12-S-SW	4/22/2024	0.0	4.0	Composite	Ex-Situ	128	ND	ND	ND	ND	ND	ND
F12-W-SW	4/22/2024	0.0	4.0	Composite	Ex-Situ	128	ND	ND	ND	ND	ND	ND
F16-N-SW	4/22/2024	0.0	4.0	Composite	Ex-Situ	128	ND	ND	ND	ND	ND	ND
F16-E-SW	4/22/2024	0.0	4.0	Composite	Ex-Situ	128	ND	ND	ND	ND	ND	ND
F16-S-SW	4/22/2024	0.0	4.0	Composite	Ex-Situ	160	ND	ND	ND	ND	ND	ND
F16-W-SW	4/22/2024	0.0	4.0	Composite	Ex-Situ	128	ND	ND	ND	ND	ND	ND
F21-N-SW	4/22/2024	0.0	4.0	Composite	Ex-Situ	128	ND	ND	ND	ND	ND	ND
F21-E-SW	4/22/2024	0.0	4.0	Composite	Ex-Situ	48	ND	ND	ND	ND	ND	ND
F21-W-SW	4/22/2024	0.0	4.0	Composite	Ex-Situ	16	ND	ND	ND	ND	ND	ND
F21-S-SW	4/22/2024	0.0	4.0	Composite	Ex-Situ	32	ND	ND	ND	ND	ND	ND
NMOCD Reclamation Standards³ (Surface to 4 ft bgs)						600	10	10	100		100	N/A
NMOCD Remediation Standards⁴ (Greater than Depths of 4 ft bgs)						20,000	10	10	2,500		1,000	N/A

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes
 2. TPH = Total petroleum hydrocarbons
 3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs
 4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018
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Closure Documentation
West Eumont Unit 522 | Lea County, New Mexico
May 14, 2024 | Terracon Project No. KH247013



APPENDIX C – STATE of NEW MEXICO WELL RECORD and LOG



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.		OSE FILE NO(S). L-15554			
	WELL OWNER NAME(S) Forty Acres Energy				PHONE (OPTIONAL) 346-254-9544			
	WELL OWNER MAILING ADDRESS 11757 Katy Freeway				CITY Houston	STATE TX	ZIP 77079	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 32	SECONDS 13.6	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE -103	19	13.9	W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1839	NAME OF LICENSED DRILLER Boyd Coffey			NAME OF WELL DRILLING COMPANY Coffey Drilling			
	DRILLING STARTED 8-25-2023	DRILLING ENDED 8-25-2023	DEPTH OF COMPLETED WELL (FT) 105	BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) NA			
	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) NA			
	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	100	6.5	2 3/8	Threaded	2	SCh 40	
	100	105	6.5	2 3/8	Threaded	2	SCH 40	0.035
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						
	0	20	6.5	Bentonite Quick grout	3.5	Tremie		
	20	105	6.5	Native fill	22	Pour		
FOR OSE INTERNAL USE								
FILE NO.			POD NO.		WR-20 WELL RECORD & LOG (Version 04/30/19)			
LOCATION				WELL TAG ID NO.		TRN NO.		
						PAGE 1 OF 2		

Closure Documentation
West Eumont Unit 522 | Lea County, New Mexico
May 14, 2024 | Terracon Project No. KH247013

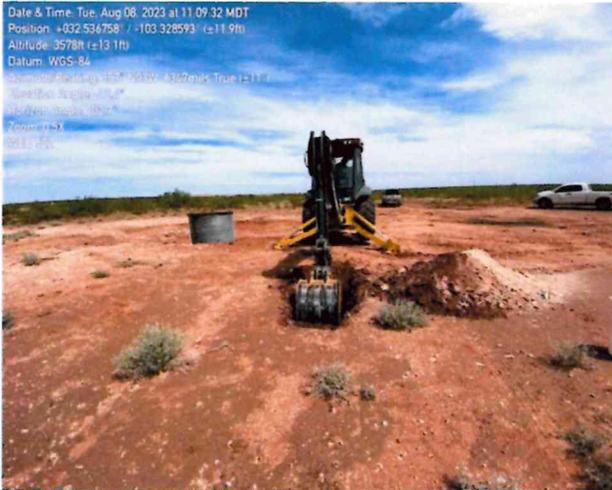


APPENDIX D – PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG

Forty Acres Energy, LLC
West Eumont Unit 522
nAPP222156433



Date & Time: Tue, Aug 08, 2023 at 11:09:32 MDT
Position: +032.534758° / -103.328593° (+11.9ft)
Altitude: 3578ft (+13.1ft)
Datum: WGS-84
Azimuth Bearing: 157.1422° (Azimuth True (+11.1°))
Elevation Angle: +12.4°
Magnetic Angle: 100.4°
MAGNETIC ANGLE: 100.4°
MAGNETIC ANGLE: 100.4°
MAGNETIC ANGLE: 100.4°
MAGNETIC ANGLE: 100.4°



Date & Time: Tue, Aug 08, 2023 at 11:22:22 MDT
Position: +032.534885° / -103.328708° (+15.1ft)
Altitude: 3592ft (+11.6ft)
Datum: WGS-84
Azimuth Bearing: 222.1422° (Azimuth True (+11.1°))
Elevation Angle: +12.4°
Magnetic Angle: 100.4°
MAGNETIC ANGLE: 100.4°
MAGNETIC ANGLE: 100.4°
MAGNETIC ANGLE: 100.4°

Photograph 1 **Date: 08/08/2023**
Description: Northwestern view of delineation activities.

Photograph 2 **Date: 08/08/2023**
Description: Northeastern view of delineation activities.



Date & Time: Tue, Aug 08, 2023 at 11:24:00 MDT
Position: +032.534885° / -103.328708° (+15.1ft)
Altitude: 3592ft (+11.6ft)
Datum: WGS-84
Azimuth Bearing: 257.5770° (Azimuth True (+11.1°))
Elevation Angle: +10.6°
Magnetic Angle: +01.2°
MAGNETIC ANGLE: 100.4°
MAGNETIC ANGLE: 100.4°



Date & Time: Tue, Aug 08, 2023 at 11:24:00 MDT
Position: +032.534885° / -103.328708° (+15.1ft)
Altitude: 3592ft (+11.6ft)
Datum: WGS-84
Azimuth Bearing: 257.5770° (Azimuth True (+11.1°))
Elevation Angle: +10.6°
Magnetic Angle: +01.2°
MAGNETIC ANGLE: 100.4°
MAGNETIC ANGLE: 100.4°

Photograph 3 **Date: 08/08/2023**
Description: Southwestern view of delineation activities.

Photograph 4 **Date: 08/08/2023**
Description: Southwestern view of delineation activities.

Closure Documentation
West Eumont Unit 522 | Lea County, New Mexico
May 14, 2024 | Terracon Project No. KH247013



APPENDIX E – ANALYTICAL REPORT AND CHAIN OF CUSTODY



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 26, 2024

JOSEPH GUESNIER
TERRACON CONSULTANTS
5827 50TH ST. SUITE 1
LUBBOCK, TX 79424

RE: WEU 522

Enclosed are the results of analyses for samples received by the laboratory on 03/20/24 16:04.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	03/20/2024	Sampling Date:	03/20/2024
Reported:	03/26/2024	Sampling Type:	Soil
Project Name:	WEU 522	Sampling Condition:	Cool & Intact
Project Number:	KH247013	Sample Received By:	Tamara Oldaker
Project Location:	FAE - LEA CO NM		

Sample ID: DS01 4' (H241473-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2024	ND	1.89	94.7	2.00	2.00	
Toluene*	<0.050	0.050	03/23/2024	ND	2.02	101	2.00	0.656	
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	1.99	99.7	2.00	0.444	
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.03	101	6.00	0.824	
Total BTEX	<0.300	0.300	03/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	03/22/2024	ND	400	100	400	11.3	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	214	107	200	5.17	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	206	103	200	5.53	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	03/20/2024	Sampling Date:	03/20/2024
Reported:	03/26/2024	Sampling Type:	Soil
Project Name:	WEU 522	Sampling Condition:	Cool & Intact
Project Number:	KH247013	Sample Received By:	Tamara Oldaker
Project Location:	FAE - LEA CO NM		

Sample ID: E12 N-SW 0 - 4' (H241473-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2024	ND	1.89	94.7	2.00	2.00	
Toluene*	<0.050	0.050	03/23/2024	ND	2.02	101	2.00	0.656	
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	1.99	99.7	2.00	0.444	
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.03	101	6.00	0.824	
Total BTEX	<0.300	0.300	03/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	03/22/2024	ND	400	100	400	11.3	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	214	107	200	5.17	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	206	103	200	5.53	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	03/20/2024	Sampling Date:	03/20/2024
Reported:	03/26/2024	Sampling Type:	Soil
Project Name:	WEU 522	Sampling Condition:	Cool & Intact
Project Number:	KH247013	Sample Received By:	Tamara Oldaker
Project Location:	FAE - LEA CO NM		

Sample ID: E13 N-SW 0 - 4' (H241473-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2024	ND	1.89	94.7	2.00	2.00	
Toluene*	<0.050	0.050	03/23/2024	ND	2.02	101	2.00	0.656	
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	1.99	99.7	2.00	0.444	
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.03	101	6.00	0.824	
Total BTEX	<0.300	0.300	03/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	03/22/2024	ND	400	100	400	11.3	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	181	90.5	200	2.24	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	183	91.7	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	03/20/2024	Sampling Date:	03/20/2024
Reported:	03/26/2024	Sampling Type:	Soil
Project Name:	WEU 522	Sampling Condition:	Cool & Intact
Project Number:	KH247013	Sample Received By:	Tamara Oldaker
Project Location:	FAE - LEA CO NM		

Sample ID: F12 S-SW 0- 4' (H241473-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2024	ND	1.89	94.7	2.00	2.00	
Toluene*	<0.050	0.050	03/23/2024	ND	2.02	101	2.00	0.656	
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	1.99	99.7	2.00	0.444	
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.03	101	6.00	0.824	
Total BTEX	<0.300	0.300	03/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	03/22/2024	ND	400	100	400	11.3	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	181	90.5	200	2.24	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	183	91.7	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.1 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	03/20/2024	Sampling Date:	03/20/2024
Reported:	03/26/2024	Sampling Type:	Soil
Project Name:	WEU 522	Sampling Condition:	Cool & Intact
Project Number:	KH247013	Sample Received By:	Tamara Oldaker
Project Location:	FAE - LEA CO NM		

Sample ID: F13 S-SW 0 - 4' (H241473-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2024	ND	1.89	94.7	2.00	2.00	
Toluene*	<0.050	0.050	03/23/2024	ND	2.02	101	2.00	0.656	
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	1.99	99.7	2.00	0.444	
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.03	101	6.00	0.824	
Total BTEX	<0.300	0.300	03/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/22/2024	ND	400	100	400	11.3	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	181	90.5	200	2.24	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	183	91.7	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	03/20/2024	Sampling Date:	03/20/2024
Reported:	03/26/2024	Sampling Type:	Soil
Project Name:	WEU 522	Sampling Condition:	Cool & Intact
Project Number:	KH247013	Sample Received By:	Tamara Oldaker
Project Location:	FAE - LEA CO NM		

Sample ID: DS02 5' (H241473-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2024	ND	1.89	94.7	2.00	2.00	
Toluene*	<0.050	0.050	03/23/2024	ND	2.02	101	2.00	0.656	
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	1.99	99.7	2.00	0.444	
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.03	101	6.00	0.824	
Total BTEX	<0.300	0.300	03/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	03/22/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	181	90.5	200	2.24	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	183	91.7	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	03/20/2024	Sampling Date:	03/20/2024
Reported:	03/26/2024	Sampling Type:	Soil
Project Name:	WEU 522	Sampling Condition:	Cool & Intact
Project Number:	KH247013	Sample Received By:	Tamara Oldaker
Project Location:	FAE - LEA CO NM		

Sample ID: E16 N-SW 0 - 5' (H241473-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2024	ND	1.89	94.7	2.00	2.00	
Toluene*	<0.050	0.050	03/23/2024	ND	2.02	101	2.00	0.656	
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	1.99	99.7	2.00	0.444	
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.03	101	6.00	0.824	
Total BTEX	<0.300	0.300	03/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	03/22/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	181	90.5	200	2.24	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	183	91.7	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	03/20/2024	Sampling Date:	03/20/2024
Reported:	03/26/2024	Sampling Type:	Soil
Project Name:	WEU 522	Sampling Condition:	Cool & Intact
Project Number:	KH247013	Sample Received By:	Tamara Oldaker
Project Location:	FAE - LEA CO NM		

Sample ID: E17 N-SW 0 - 5' (H241473-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2024	ND	1.89	94.7	2.00	2.00	
Toluene*	<0.050	0.050	03/23/2024	ND	2.02	101	2.00	0.656	
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	1.99	99.7	2.00	0.444	
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.03	101	6.00	0.824	
Total BTEX	<0.300	0.300	03/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	03/22/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	181	90.5	200	2.24	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	183	91.7	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	03/20/2024	Sampling Date:	03/20/2024
Reported:	03/26/2024	Sampling Type:	Soil
Project Name:	WEU 522	Sampling Condition:	Cool & Intact
Project Number:	KH247013	Sample Received By:	Tamara Oldaker
Project Location:	FAE - LEA CO NM		

Sample ID: F16 S-SW 0 - 5' (H241473-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	1.89	94.7	2.00	2.00		
Toluene*	<0.050	0.050	03/23/2024	ND	2.02	101	2.00	0.656		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	1.99	99.7	2.00	0.444		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.03	101	6.00	0.824		
Total BTEX	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/22/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	181	90.5	200	2.24		
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	183	91.7	200	6.03		
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND						

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	03/20/2024	Sampling Date:	03/20/2024
Reported:	03/26/2024	Sampling Type:	Soil
Project Name:	WEU 522	Sampling Condition:	Cool & Intact
Project Number:	KH247013	Sample Received By:	Tamara Oldaker
Project Location:	FAE - LEA CO NM		

Sample ID: F17 S-SW 0 - 5' (H241473-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2024	ND	1.89	94.7	2.00	2.00	
Toluene*	<0.050	0.050	03/23/2024	ND	2.02	101	2.00	0.656	
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	1.99	99.7	2.00	0.444	
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.03	101	6.00	0.824	
Total BTEX	<0.300	0.300	03/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	03/22/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	181	90.5	200	2.24	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	183	91.7	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 62.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 58.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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May 10, 2024

JOSEPH GUESNIER
TERRACON CONSULTANTS
5827 50TH ST. SUITE 1
LUBBOCK, TX 79424

RE: WEU 522

Enclosed are the results of analyses for samples received by the laboratory on 04/22/24 12:34.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C3 - N - SW 0-4'	H242126-01	Soil	22-Apr-24 09:00	22-Apr-24 12:34
D4 - N - SW 0-4'	H242126-02	Soil	22-Apr-24 09:02	22-Apr-24 12:34
D4 - E - SW 0-4'	H242126-03	Soil	22-Apr-24 09:04	22-Apr-24 12:34
E4 - E - SW 0-4'	H242126-04	Soil	22-Apr-24 09:06	22-Apr-24 12:34
F4 - S - SW 0-4'	H242126-05	Soil	22-Apr-24 09:08	22-Apr-24 12:34
E3 - W - SW 0-4'	H242126-06	Soil	22-Apr-24 09:10	22-Apr-24 12:34
D3 - W - SW 0-4'	H242126-07	Soil	22-Apr-24 09:12	22-Apr-24 12:34
F3 - S - SW 0-4'	H242126-08	Soil	22-Apr-24 09:16	22-Apr-24 12:34
F12 - N - SW 0-4'	H242126-09	Soil	22-Apr-24 09:24	22-Apr-24 12:34
F12 - FS 4'	H242126-10	Soil	22-Apr-24 09:26	22-Apr-24 12:34
F12 - E - SW 0-4'	H242126-11	Soil	22-Apr-24 09:28	22-Apr-24 12:34
F12 - S - SW 0-4'	H242126-12	Soil	22-Apr-24 09:30	22-Apr-24 12:34
F12 - W - SW 0-4'	H242126-13	Soil	22-Apr-24 09:32	22-Apr-24 12:34
F16 - N - SW 0-4'	H242126-14	Soil	22-Apr-24 09:34	22-Apr-24 12:34
F16 - FS 4'	H242126-15	Soil	22-Apr-24 09:36	22-Apr-24 12:34
F16 - E - SW 0-4'	H242126-16	Soil	22-Apr-24 09:38	22-Apr-24 12:34
F16 - S - SW 0-4'	H242126-17	Soil	22-Apr-24 09:40	22-Apr-24 12:34
F16 - W - SW 0-4'	H242126-18	Soil	22-Apr-24 09:42	22-Apr-24 12:34
F21 - N - SW 0-4'	H242126-19	Soil	22-Apr-24 09:44	22-Apr-24 12:34
F21 - FS 4'	H242126-20	Soil	22-Apr-24 09:46	22-Apr-24 12:34
F21 - E - SW 0-4'	H242126-21	Soil	22-Apr-24 09:48	22-Apr-24 12:34
F21 - W - SW 0-4'	H242126-22	Soil	22-Apr-24 09:50	22-Apr-24 12:34
F21 - S - SW 0-4'	H242126-23	Soil	22-Apr-24 09:52	22-Apr-24 12:34
D3 - FS 4'	H242126-24	Soil	22-Apr-24 10:00	22-Apr-24 12:34
D4 - FS 4'	H242126-25	Soil	22-Apr-24 10:02	22-Apr-24 12:34
E3 - FS 4'	H242126-26	Soil	22-Apr-24 10:04	22-Apr-24 12:34
E4 - FS 4'	H242126-27	Soil	22-Apr-24 10:06	22-Apr-24 12:34

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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F3 - FS 4'	H242126-28	Soil	22-Apr-24 10:08	22-Apr-24 12:34
F4 - FS 4'	H242126-29	Soil	22-Apr-24 10:10	22-Apr-24 12:34

05/10/24 - Client added depths to samples -16 to -20 (see COC). This is the revised report and will replace the one sent on 04/26/24.

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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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**C3 - N - SW 0-4'
H242126-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	4042310	HM	23-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042211	JH	22-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4042211	JH	22-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042211	JH	22-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042211	JH	22-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042211	JH	22-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	71.5-134		4042211	JH	22-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042213	MS	23-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042213	MS	23-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042213	MS	23-Apr-24	8015B	

Surrogate: 1-Chlorooctane			75.9 %	48.2-134		4042213	MS	23-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			65.9 %	49.1-148		4042213	MS	23-Apr-24	8015B	
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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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**D4 - N - SW 0-4'
H242126-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	16.0		16.0	mg/kg	4	4042310	HM	23-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042211	JH	22-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4042211	JH	22-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042211	JH	22-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042211	JH	22-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042211	JH	22-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	71.5-134		4042211	JH	22-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			77.0 %	48.2-134		4042214	MS	22-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			85.0 %	49.1-148		4042214	MS	22-Apr-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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**D4 - E - SW 0-4'
H242126-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	4042310	HM	23-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042211	JH	22-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4042211	JH	22-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042211	JH	22-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042211	JH	22-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042211	JH	22-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		4042211	JH	22-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	

Surrogate: 1-Chlorooctane			77.3 %	48.2-134		4042214	MS	22-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			85.5 %	49.1-148		4042214	MS	22-Apr-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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**E4 - E - SW 0-4'
H242126-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	4042320	AC	23-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042211	JH	22-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4042211	JH	22-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042211	JH	22-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042211	JH	22-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042211	JH	22-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	71.5-134		4042211	JH	22-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	

Surrogate: 1-Chlorooctane			84.3 %	48.2-134		4042214	MS	22-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			93.6 %	49.1-148		4042214	MS	22-Apr-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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**F4 - S - SW 0-4'
H242126-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	4042320	AC	23-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042211	JH	22-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4042211	JH	22-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042211	JH	22-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042211	JH	22-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042211	JH	22-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	71.5-134		4042211	JH	22-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			85.9 %	48.2-134		4042214	MS	22-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			97.5 %	49.1-148		4042214	MS	22-Apr-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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**E3 - W - SW 0-4'
H242126-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	4042320	AC	23-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042211	JH	22-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4042211	JH	22-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042211	JH	22-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042211	JH	22-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042211	JH	22-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		4042211	JH	22-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	

Surrogate: 1-Chlorooctane			76.3 %	48.2-134		4042214	MS	22-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			84.2 %	49.1-148		4042214	MS	22-Apr-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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D3 - W - SW 0-4'
H242126-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	4042320	AC	23-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Toluene*	0.118		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Ethylbenzene*	0.063		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042216	JH	22-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %	71.5-134		4042216	JH	22-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			80.2 %	48.2-134		4042214	MS	22-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			88.2 %	49.1-148		4042214	MS	22-Apr-24	8015B	
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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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**F3 - S - SW 0-4'
H242126-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	4042320	AC	23-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Toluene*	0.087		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042216	JH	22-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %	71.5-134		4042216	JH	22-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			78.7 %	48.2-134		4042214	MS	22-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			85.7 %	49.1-148		4042214	MS	22-Apr-24	8015B	
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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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F12 - N - SW 0-4'
H242126-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	4042320	AC	23-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Toluene*	0.085		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042216	JH	22-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %	71.5-134		4042216	JH	22-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			82.4 %	48.2-134		4042214	MS	22-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			94.9 %	49.1-148		4042214	MS	22-Apr-24	8015B	
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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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F12 - FS 4'
H242126-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	64.0		16.0	mg/kg	4	4042320	AC	23-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Toluene*	0.097		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042216	JH	22-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %	71.5-134		4042216	JH	22-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			81.9 %	48.2-134		4042214	MS	22-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			91.5 %	49.1-148		4042214	MS	22-Apr-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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**F12 - E - SW 0-4'
H242126-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	144		16.0	mg/kg	4	4042320	AC	23-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042216	JH	22-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %		71.5-134	4042216	JH	22-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			77.2 %		48.2-134	4042214	MS	22-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			82.9 %		49.1-148	4042214	MS	22-Apr-24	8015B	
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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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F12 - S - SW 0-4'
H242126-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	128		16.0	mg/kg	4	4042320	AC	23-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Toluene*	0.125		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Ethylbenzene*	0.059		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042216	JH	22-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			110 %	71.5-134		4042216	JH	22-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			77.3 %	48.2-134		4042214	MS	22-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			83.5 %	49.1-148		4042214	MS	22-Apr-24	8015B	
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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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F12 - W - SW 0-4'
H242126-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	128		16.0	mg/kg	4	4042320	AC	23-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Toluene*	0.163		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Ethylbenzene*	0.074		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042216	JH	22-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			112 %	71.5-134		4042216	JH	22-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			76.2 %	48.2-134		4042214	MS	22-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			80.8 %	49.1-148		4042214	MS	22-Apr-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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**F16 - N - SW 0-4'
H242126-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	128		16.0	mg/kg	4	4042320	AC	23-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042216	JH	22-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			96.1 %		71.5-134	4042216	JH	22-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	

Surrogate: 1-Chlorooctane			72.7 %		48.2-134	4042214	MS	22-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			76.2 %		49.1-148	4042214	MS	22-Apr-24	8015B	
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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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**F16 - FS 4'
H242126-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	144		16.0	mg/kg	4	4042320	AC	23-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Toluene*	0.109		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042216	JH	22-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	4042216	JH	22-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	

Surrogate: 1-Chlorooctane			76.7 %		48.2-134	4042214	MS	22-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			84.4 %		49.1-148	4042214	MS	22-Apr-24	8015B	
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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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**F16 - E - SW 0-4'
H242126-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	128		16.0	mg/kg	4	4042320	AC	23-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Toluene*	0.119		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042216	JH	22-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			117 %	71.5-134		4042216	JH	22-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	

Surrogate: 1-Chlorooctane			77.3 %	48.2-134		4042214	MS	22-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			86.5 %	49.1-148		4042214	MS	22-Apr-24	8015B	
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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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**F16 - S - SW 0-4'
H242126-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	160		16.0	mg/kg	4	4042320	AC	23-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Toluene*	0.128		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042216	JH	22-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %	71.5-134		4042216	JH	22-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	

Surrogate: 1-Chlorooctane			73.8 %	48.2-134		4042214	MS	22-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			79.6 %	49.1-148		4042214	MS	22-Apr-24	8015B	
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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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**F16 - W - SW 0-4'
H242126-18 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	128		16.0	mg/kg	4	4042320	AC	23-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042216	JH	22-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	71.5-134		4042216	JH	22-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	

Surrogate: 1-Chlorooctane			74.1 %	48.2-134		4042214	MS	22-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			79.7 %	49.1-148		4042214	MS	22-Apr-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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**F21 - N - SW 0-4'
H242126-19 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	128		16.0	mg/kg	4	4042320	AC	23-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Toluene*	0.070		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042216	JH	22-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	71.5-134		4042216	JH	22-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	

Surrogate: 1-Chlorooctane			82.0 %	48.2-134		4042214	MS	22-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			89.8 %	49.1-148		4042214	MS	22-Apr-24	8015B	
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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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**F21 - FS 4'
H242126-20 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	128		16.0	mg/kg	4	4042320	AC	23-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042216	JH	22-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %	71.5-134		4042216	JH	22-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	

Surrogate: 1-Chlorooctane			84.6 %	48.2-134		4042214	MS	22-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			92.9 %	49.1-148		4042214	MS	22-Apr-24	8015B	
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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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F21 - E - SW 0-4'
H242126-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	4042320	AC	23-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Toluene*	0.073		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042216	JH	22-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %	71.5-134		4042216	JH	22-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042214	MS	22-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			77.1 %	48.2-134		4042214	MS	22-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			81.1 %	49.1-148		4042214	MS	22-Apr-24	8015B	
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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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**F21 - W - SW 0-4'
H242126-22 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	16.0		16.0	mg/kg	4	4042320	AC	23-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Toluene*	0.089		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Ethylbenzene*	0.055		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042216	JH	22-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	71.5-134		4042216	JH	22-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042218	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042218	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042218	MS	22-Apr-24	8015B	

Surrogate: 1-Chlorooctane			87.3 %	48.2-134		4042218	MS	22-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			104 %	49.1-148		4042218	MS	22-Apr-24	8015B	
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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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**F21 - S - SW 0-4'
H242126-23 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	4042320	AC	23-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Toluene*	0.076		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042216	JH	22-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	71.5-134		4042216	JH	22-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042218	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042218	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042218	MS	22-Apr-24	8015B	

Surrogate: 1-Chlorooctane			87.4 %	48.2-134		4042218	MS	22-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			98.3 %	49.1-148		4042218	MS	22-Apr-24	8015B	
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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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**D3 - FS 4'
H242126-24 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	368		16.0	mg/kg	4	4042318	HM	23-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042216	JH	22-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042216	JH	22-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %	71.5-134		4042216	JH	22-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042218	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042218	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042218	MS	22-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			91.1 %	48.2-134		4042218	MS	22-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			104 %	49.1-148		4042218	MS	22-Apr-24	8015B	
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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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D4 - FS 4'
H242126-25 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	256		16.0	mg/kg	4	4042318	HM	23-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042216	JH	23-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4042216	JH	23-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042216	JH	23-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042216	JH	23-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042216	JH	23-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			110 %	71.5-134		4042216	JH	23-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042218	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042218	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042218	MS	22-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			94.8 %	48.2-134		4042218	MS	22-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			107 %	49.1-148		4042218	MS	22-Apr-24	8015B	
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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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**E3 - FS 4'
H242126-26 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	304		16.0	mg/kg	4	4042318	HM	23-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042216	JH	23-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4042216	JH	23-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042216	JH	23-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042216	JH	23-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042216	JH	23-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			114 %		71.5-134	4042216	JH	23-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042218	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042218	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042218	MS	22-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.8 %		48.2-134	4042218	MS	22-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			100 %		49.1-148	4042218	MS	22-Apr-24	8015B	
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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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**E4 - FS 4'
H242126-27 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	4042318	HM	23-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042220	JH	22-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4042220	JH	22-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042220	JH	22-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042220	JH	22-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042220	JH	22-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %	71.5-134		4042220	JH	22-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042218	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042218	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042218	MS	22-Apr-24	8015B	

Surrogate: 1-Chlorooctane			93.7 %	48.2-134		4042218	MS	22-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			105 %	49.1-148		4042218	MS	22-Apr-24	8015B	
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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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**F3 - FS 4'
H242126-28 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	400		16.0	mg/kg	4	4042318	HM	23-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042220	JH	22-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4042220	JH	22-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042220	JH	22-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042220	JH	22-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042220	JH	22-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %	71.5-134		4042220	JH	22-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042218	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042218	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042218	MS	22-Apr-24	8015B	

Surrogate: 1-Chlorooctane			94.0 %	48.2-134		4042218	MS	22-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			107 %	49.1-148		4042218	MS	22-Apr-24	8015B	
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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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**F4 - FS 4'
H242126-29 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Inorganic Compounds

Chloride	368		16.0	mg/kg	4	4042318	HM	23-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042220	JH	22-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4042220	JH	22-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042220	JH	22-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042220	JH	22-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042220	JH	22-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %	71.5-134		4042220	JH	22-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042219	MS	22-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042219	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042219	MS	22-Apr-24	8015B	

Surrogate: 1-Chlorooctane			91.6 %	48.2-134		4042219	MS	22-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			66.4 %	49.1-148		4042219	MS	22-Apr-24	8015B	
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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4042310 - 1:4 DI Water

Blank (4042310-BLK1)				Prepared & Analyzed: 23-Apr-24						
Chloride	ND	16.0	mg/kg							
LCS (4042310-BS1)				Prepared & Analyzed: 23-Apr-24						
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (4042310-BSD1)				Prepared & Analyzed: 23-Apr-24						
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

Batch 4042318 - 1:4 DI Water

Blank (4042318-BLK1)				Prepared & Analyzed: 23-Apr-24						
Chloride	ND	16.0	mg/kg							
LCS (4042318-BS1)				Prepared & Analyzed: 23-Apr-24						
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (4042318-BSD1)				Prepared & Analyzed: 23-Apr-24						
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

Batch 4042320 - 1:4 DI Water

Blank (4042320-BLK1)				Prepared & Analyzed: 23-Apr-24						
Chloride	ND	16.0	mg/kg							
LCS (4042320-BS1)				Prepared & Analyzed: 23-Apr-24						
Chloride	432	16.0	mg/kg	400		108	80-120			

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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4042320 - 1:4 DI Water

LCS Dup (4042320-BSD1)

Prepared & Analyzed: 23-Apr-24

Chloride	448	16.0	mg/kg	400		112	80-120	3.64	20	
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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4042211 - Volatiles

Blank (4042211-BLK1)			Prepared & Analyzed: 22-Apr-24							
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0521		mg/kg	0.0500		104	71.5-134			

LCS (4042211-BS1)			Prepared & Analyzed: 22-Apr-24							
Benzene	1.99	0.050	mg/kg	2.00		99.4	82.8-130			
Toluene	2.01	0.050	mg/kg	2.00		100	86-128			
Ethylbenzene	1.93	0.050	mg/kg	2.00		96.7	85.9-128			
m,p-Xylene	4.01	0.100	mg/kg	4.00		100	89-129			
o-Xylene	1.89	0.050	mg/kg	2.00		94.6	86.1-125			
Total Xylenes	5.90	0.150	mg/kg	6.00		98.4	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0498		mg/kg	0.0500		99.7	71.5-134			

LCS Dup (4042211-BSD1)			Prepared & Analyzed: 22-Apr-24							
Benzene	2.13	0.050	mg/kg	2.00		107	82.8-130	7.06	15.8	
Toluene	2.16	0.050	mg/kg	2.00		108	86-128	7.27	15.9	
Ethylbenzene	2.09	0.050	mg/kg	2.00		104	85.9-128	7.61	16	
m,p-Xylene	4.26	0.100	mg/kg	4.00		107	89-129	6.08	16.2	
o-Xylene	2.04	0.050	mg/kg	2.00		102	86.1-125	7.67	16.7	
Total Xylenes	6.31	0.150	mg/kg	6.00		105	88.2-128	6.60	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0501		mg/kg	0.0500		100	71.5-134			

Batch 4042216 - Volatiles

Blank (4042216-BLK1)			Prepared & Analyzed: 22-Apr-24							
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Analytical Results For:

TERRACON CONSULTANTS
5827 50TH ST. SUITE 1
LUBBOCK TX, 79424

Project: WEU 522
Project Number: KH247013
Project Manager: JOSEPH GUESNIER
Fax To:

Reported:
10-May-24 16:41

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4042216 - Volatiles**Blank (4042216-BLK1)**

Prepared & Analyzed: 22-Apr-24

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0564		mg/kg	0.0500		113	71.5-134			

LCS (4042216-BS1)

Prepared: 22-Apr-24 Analyzed: 23-Apr-24

Benzene	1.88	0.050	mg/kg	2.00		93.8	82.8-130			
Toluene	1.87	0.050	mg/kg	2.00		93.5	86-128			
Ethylbenzene	1.87	0.050	mg/kg	2.00		93.5	85.9-128			
m,p-Xylene	3.77	0.100	mg/kg	4.00		94.2	89-129			
o-Xylene	1.83	0.050	mg/kg	2.00		91.5	86.1-125			
Total Xylenes	5.60	0.150	mg/kg	6.00		93.3	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0491		mg/kg	0.0500		98.3	71.5-134			

LCS Dup (4042216-BSD1)

Prepared & Analyzed: 22-Apr-24

Benzene	1.98	0.050	mg/kg	2.00		98.8	82.8-130	5.22	15.8	
Toluene	2.06	0.050	mg/kg	2.00		103	86-128	9.46	15.9	
Ethylbenzene	2.08	0.050	mg/kg	2.00		104	85.9-128	10.9	16	
m,p-Xylene	4.18	0.100	mg/kg	4.00		104	89-129	10.2	16.2	
o-Xylene	2.04	0.050	mg/kg	2.00		102	86.1-125	11.0	16.7	
Total Xylenes	6.22	0.150	mg/kg	6.00		104	88.2-128	10.5	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0513		mg/kg	0.0500		103	71.5-134			

Batch 4042220 - Volatiles**Blank (4042220-BLK1)**

Prepared & Analyzed: 22-Apr-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0566		mg/kg	0.0500		113	71.5-134			

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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4042220 - Volatiles

LCS (4042220-BS1)		Prepared & Analyzed: 22-Apr-24								
Benzene	2.04	0.050	mg/kg	2.00		102	82.8-130			
Toluene	2.02	0.050	mg/kg	2.00		101	86-128			
Ethylbenzene	2.13	0.050	mg/kg	2.00		107	85.9-128			
m,p-Xylene	4.26	0.100	mg/kg	4.00		107	89-129			
o-Xylene	2.17	0.050	mg/kg	2.00		109	86.1-125			
Total Xylenes	6.43	0.150	mg/kg	6.00		107	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0520		mg/kg	0.0500		104	71.5-134			

LCS Dup (4042220-BS1)		Prepared & Analyzed: 22-Apr-24								
Benzene	2.04	0.050	mg/kg	2.00		102	82.8-130	0.0248	15.8	
Toluene	2.05	0.050	mg/kg	2.00		103	86-128	1.45	15.9	
Ethylbenzene	2.14	0.050	mg/kg	2.00		107	85.9-128	0.609	16	
m,p-Xylene	4.27	0.100	mg/kg	4.00		107	89-129	0.119	16.2	
o-Xylene	2.18	0.050	mg/kg	2.00		109	86.1-125	0.263	16.7	
Total Xylenes	6.44	0.150	mg/kg	6.00		107	88.2-128	0.167	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0531		mg/kg	0.0500		106	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4042213 - General Prep - Organics

Blank (4042213-BLK1)			Prepared & Analyzed: 22-Apr-24							
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	44.0		mg/kg	50.0		88.1	48.2-134			
Surrogate: 1-Chlorooctadecane	39.0		mg/kg	50.0		77.9	49.1-148			

LCS (4042213-BS1)			Prepared: 22-Apr-24 Analyzed: 23-Apr-24							
GRO C6-C10	196	10.0	mg/kg	200		98.1	66.4-123			
DRO >C10-C28	199	10.0	mg/kg	200		99.5	66.5-118			
Total TPH C6-C28	395	10.0	mg/kg	400		98.8	77.6-123			
Surrogate: 1-Chlorooctane	42.9		mg/kg	50.0		85.9	48.2-134			
Surrogate: 1-Chlorooctadecane	37.2		mg/kg	50.0		74.4	49.1-148			

LCS Dup (4042213-BS1)			Prepared & Analyzed: 22-Apr-24							
GRO C6-C10	193	10.0	mg/kg	200		96.4	66.4-123	1.83	17.7	
DRO >C10-C28	192	10.0	mg/kg	200		95.8	66.5-118	3.81	21	
Total TPH C6-C28	384	10.0	mg/kg	400		96.1	77.6-123	2.82	18.5	
Surrogate: 1-Chlorooctane	42.4		mg/kg	50.0		84.8	48.2-134			
Surrogate: 1-Chlorooctadecane	39.8		mg/kg	50.0		79.6	49.1-148			

Batch 4042214 - General Prep - Organics

Blank (4042214-BLK1)			Prepared & Analyzed: 22-Apr-24							
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	42.3		mg/kg	50.0		84.6	48.2-134			
Surrogate: 1-Chlorooctadecane	47.4		mg/kg	50.0		94.8	49.1-148			

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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4042214 - General Prep - Organics

LCS (4042214-BS1)		Prepared & Analyzed: 22-Apr-24								
GRO C6-C10	167	10.0	mg/kg	200		83.5	66.4-123			
DRO >C10-C28	185	10.0	mg/kg	200		92.5	66.5-118			
Total TPH C6-C28	352	10.0	mg/kg	400		88.0	77.6-123			
Surrogate: 1-Chlorooctane	39.8		mg/kg	50.0		79.6	48.2-134			
Surrogate: 1-Chlorooctadecane	48.6		mg/kg	50.0		97.2	49.1-148			

LCS Dup (4042214-BSD1)		Prepared & Analyzed: 22-Apr-24								
GRO C6-C10	194	10.0	mg/kg	200		96.8	66.4-123	14.8	17.7	
DRO >C10-C28	197	10.0	mg/kg	200		98.3	66.5-118	6.06	21	
Total TPH C6-C28	390	10.0	mg/kg	400		97.6	77.6-123	10.3	18.5	
Surrogate: 1-Chlorooctane	43.9		mg/kg	50.0		87.9	48.2-134			
Surrogate: 1-Chlorooctadecane	46.9		mg/kg	50.0		93.9	49.1-148			

Batch 4042218 - General Prep - Organics

Blank (4042218-BLK1)		Prepared & Analyzed: 22-Apr-24								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	48.2		mg/kg	50.0		96.4	48.2-134			
Surrogate: 1-Chlorooctadecane	55.4		mg/kg	50.0		111	49.1-148			

LCS (4042218-BS1)		Prepared & Analyzed: 22-Apr-24								
GRO C6-C10	195	10.0	mg/kg	200		97.4	66.4-123			
DRO >C10-C28	208	10.0	mg/kg	200		104	66.5-118			
Total TPH C6-C28	403	10.0	mg/kg	400		101	77.6-123			
Surrogate: 1-Chlorooctane	47.8		mg/kg	50.0		95.7	48.2-134			
Surrogate: 1-Chlorooctadecane	54.0		mg/kg	50.0		108	49.1-148			

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Analytical Results For:

TERRACON CONSULTANTS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424	Project: WEU 522 Project Number: KH247013 Project Manager: JOSEPH GUESNIER Fax To:	Reported: 10-May-24 16:41
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4042218 - General Prep - Organics

LCS Dup (4042218-BSD1)		Prepared & Analyzed: 22-Apr-24								
GRO C6-C10	198	10.0	mg/kg	200		98.9	66.4-123	1.54	17.7	
DRO >C10-C28	218	10.0	mg/kg	200		109	66.5-118	4.95	21	
Total TPH C6-C28	416	10.0	mg/kg	400		104	77.6-123	3.31	18.5	
Surrogate: 1-Chlorooctane	48.4		mg/kg	50.0		96.8	48.2-134			
Surrogate: 1-Chlorooctadecane	54.8		mg/kg	50.0		110	49.1-148			

Batch 4042219 - General Prep - Organics

Blank (4042219-BLK1)		Prepared & Analyzed: 22-Apr-24								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	46.4		mg/kg	50.0		92.8	48.2-134			
Surrogate: 1-Chlorooctadecane	32.2		mg/kg	50.0		64.3	49.1-148			

LCS (4042219-BS1)		Prepared & Analyzed: 22-Apr-24								
GRO C6-C10	210	10.0	mg/kg	200		105	66.4-123			
DRO >C10-C28	206	10.0	mg/kg	200		103	66.5-118			
Total TPH C6-C28	416	10.0	mg/kg	400		104	77.6-123			
Surrogate: 1-Chlorooctane	47.9		mg/kg	50.0		95.8	48.2-134			
Surrogate: 1-Chlorooctadecane	33.9		mg/kg	50.0		67.8	49.1-148			

LCS Dup (4042219-BSD1)		Prepared & Analyzed: 22-Apr-24								
GRO C6-C10	208	10.0	mg/kg	200		104	66.4-123	0.672	17.7	
DRO >C10-C28	205	10.0	mg/kg	200		102	66.5-118	0.580	21	
Total TPH C6-C28	413	10.0	mg/kg	400		103	77.6-123	0.626	18.5	
Surrogate: 1-Chlorooctane	47.5		mg/kg	50.0		95.1	48.2-134			
Surrogate: 1-Chlorooctadecane	34.0		mg/kg	50.0		68.0	49.1-148			

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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3-3

Company Name: Terracon		BILL TO										ANALYSIS REQUEST													
Project Manager: Joseph Guesnier		P.O. #:																							
Address: 4518 W. Perice Street		Company: <i>Forty Acres</i>																							
City: Carlsbad State: NM Zip: 88220		Attn: <i>James Martinez</i>																							
Phone #: 8065077057 Fax #:		Address:																							
Project #: <i>K11247013</i> Project Owner:		City:																							
Project Name: <i>WEU 522</i>		State: Zip:																							
Project Location:		Phone #:																							
Sampler Name: Travis Casey		Fax #:																							
FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING													
				GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME	
<i>H2U 2/2U</i>																									
<i>21</i>		<i>F21-E-SW 0-4'</i>		<i>C</i>		<i>1</i>		<i>X</i>		<i>X</i>												<i>4-22</i>		<i>0948</i>	
<i>22</i>		<i>F21-W-SW</i>																						<i>0950</i>	
<i>23</i>		<i>F21-S-SW</i>																						<i>0952</i>	
<i>24</i>		<i>D3-FS 4'</i>																						<i>1000</i>	
<i>25</i>		<i>D4-FS</i>																						<i>1002</i>	
<i>26</i>		<i>E3-FS</i>																						<i>1004</i>	
<i>27</i>		<i>F4-FS</i>																						<i>1006</i>	
<i>28</i>		<i>F3-FS</i>																						<i>1008</i>	
<i>29</i>		<i>F4-FS</i>																						<i>1010</i>	

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Relinquished By: <i>BT Miller</i>		Date: <i>4-22-24</i>		Received By: <i>Amara Oldaker</i>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: <i>1234</i>						All Results are emailed. Please provide Email address:	
Relinquished By:		Date:		Received By:		REMARKS: <i>joesph.guesnier@terracon.com; travis.casey@terracon.com; austin.worley@terracon.com; michael.adams@terracon.com</i>	
Time:							
Delivered By: (Circle One)		Observed Temp. °C <i>0.8</i>		Sample Condition		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C Yes <input type="checkbox"/> No <input type="checkbox"/>	
FORM-006 R 3.2 10/07/21				CHECKED BY: (Initials) <i>JG</i>		Thermometer ID #113 <i>#140</i> Correction Factor <i>-0.5°C</i> <i>4/22/24</i>	
						Corrected Temp. °C	

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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March 05, 2024

JOSEPH GUESNIER
TERRACON CONSULTANTS
5827 50TH ST. SUITE 1
LUBBOCK, TX 79424

RE: WEU 522

Enclosed are the results of analyses for samples received by the laboratory on 02/29/24 13:36.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene
Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	02/29/2024	Sampling Date:	02/28/2024
Reported:	03/05/2024	Sampling Type:	Soil
Project Name:	WEU 522	Sampling Condition:	Cool & Intact
Project Number:	KH247013	Sample Received By:	Shalyn Rodriguez
Project Location:	FAE - LEA CO NM		

Sample ID: O3 FS 5' (H241021-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2024	ND	2.36	118	2.00	0.703	
Toluene*	<0.050	0.050	03/01/2024	ND	2.32	116	2.00	4.40	
Ethylbenzene*	<0.050	0.050	03/01/2024	ND	2.40	120	2.00	6.86	
Total Xylenes*	<0.150	0.150	03/01/2024	ND	7.15	119	6.00	7.55	
Total BTEX	<0.300	0.300	03/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	03/04/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2024	ND	199	99.6	200	0.0854	
DRO >C10-C28*	<10.0	10.0	03/02/2024	ND	191	95.6	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	03/02/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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(575) 393-2326 FAX (575) 393-2476

Form with sections: Company Name, Project Manager, Address, City, State, Zip, Phone, Fax, Project #, Project Owner, Project Name, Project Location, Sampler Name, BILL TO, ANALYSIS REQUEST, Lab I.D., Sample I.D., MATRIX, PRESERV., SAMPLING.

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses.

Form with sections: Relinquished By, Received By, Verbal Result, All Results are emailed, REMARKS, Delivered By, Observed Temp., Sample Condition, CHECKED BY, Turnaround Time, Bacteria (only) Sample Condition.

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabnm.com

Closure Documentation
West Eumont Unit 522 | Lea County, New Mexico
May 14, 2024 | Terracon Project No. KH247013



APPENDIX F – TERRACON STANDARD OF CARE, LIMITATION, AND RELIANCE

Standard of Care

Terracon’s services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time. Terracon makes no warranties, either express or implied, regarding the findings, conclusions, or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report. These services were performed in accordance with the scope of work agreed with you, Forty Acres Energy, LLC, as reflected in our project # (KH247013).

Additional Scope Limitations

The development of this Closure Report is based on information provided by the Client and Terracon’s remediation and construction services line. Such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, nondetectable, or not present during these services. We cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those by information provided by the Client. The data, interpretations, findings, and recommendations are based solely upon reformation executed within the scope of these services.

Reliance

This report has been prepared for the exclusive use of Aris Water, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of Forty Acres Energy, LLC and Terracon. Any unauthorized distribution or reuse is at Forty Acres Energy, LLC sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the proposal and Forty Acres Energy, LLC and Terracon’s Master Services Agreement. The limitation of liability defined in the terms and conditions is the aggregate limit of Terracon’s liability to Forty Acres Energy, LLC and all relying parties unless otherwise agreed in writing.

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 354298

QUESTIONS

Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: 371416
	Action Number: 354298
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2222156433
Incident Name	NAPP2222156433 WEST EUMONT UNIT #522 @ 30-025-45479
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-45479] WEST EUMONT UNIT #522

Location of Release Source

Please answer all the questions in this group.

Site Name	WEST EUMONT UNIT #522
Date Release Discovered	07/27/2022
Surface Owner	Private

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: Other Flow Line - Injection Produced Water Released: 22 BBL Recovered: 15 BBL Lost: 7 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS (continued)

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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	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>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.</i>	

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	<i>Not answered.</i>

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: Alexis Bolanos Title: Production & Regulatory Analyst Email: alex@faenergyus.com Date: 06/18/2024
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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	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 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 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
<i>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.</i>	
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)	8800
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	02/27/2024
On what date will (or did) the final sampling or liner inspection occur	04/24/2024
On what date will (or was) the remediation complete(d)	04/24/2024
What is the estimated surface area (in square feet) that will be reclaimed	1800
What is the estimated volume (in cubic yards) that will be reclaimed	350
What is the estimated surface area (in square feet) that will be remediated	1800
What is the estimated volume (in cubic yards) that will be remediated	350

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 354298

QUESTIONS (continued)

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QUESTIONS

Remediation Plan (continued)

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	R360 ARTESIA LLC LANDFARM [FEEM0112340644]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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: Alexis Bolanos Title: Production & Regulatory Analyst Email: alex@faenergyus.com Date: 06/18/2024
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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 354298

QUESTIONS (continued)

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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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Action 354298

QUESTIONS (continued)

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	334471
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/24/2024
What was the (estimated) number of samples that were to be gathered	30
What was the sampling surface area in square feet	1600

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	1800
What was the total volume (cubic yards) remediated	350
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	1800
What was the total volume (in cubic yards) reclaimed	350
Summarize any additional remediation activities not included by answers (above)	Areas exhibiting visual impact and the areas that exceeded the closure criteria were excavated to a depth of 4 feet bgs. A total of 29 confirmation soil samples were collected on April 22, 2024, and submitted for analysis of BTEX, Chlorides, and TPH. Floor and walls confirmation sample results for BTEX, Chlorides and TPH were below applicable NMOCD closure criteria. An estimated 350 cubic yards (cu. yds.) of loose soil were excavated during remedial activities, being from surface to four feet below grade surface. Excavated material was disposed of at an approved waste disposal facility. A Confirmation Sample Map depicting the floor and wall sample locations and analytical results for Chlorides is included in Exhibit 6A and 6B, respectively. Floor and wall confirmation sample analytical results are included in Appendix B, Table 2, and Table 3, respectively. Photographs of the project site are included in Appendix D. Analytical Reports and Chain of Custody's are included in Appendix E. Terracon Standard and Care , Limitation's and Reliance is included in Appendix F. Conclusion In accordance with NMAC 19.15.29.12, remediation of the impacted material is complete, and Forty Acres Energy, LLC respectfully requests closure of the reportable incident that occurred on July 27, 2022, at the NMOCD Reference # nAPP2402333573 West Eumont Unit 522 location.

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: Alexis Bolanos Title: Production & Regulatory Analyst Email: alex@faenergyus.com Date: 06/18/2024
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QUESTIONS (continued)

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QUESTIONS

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

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CONDITIONS

Action 354298

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CONDITIONS

Created By	Condition	Condition Date
nvelez	None	8/13/2024