



Remediation Summary and Closure Request

FAE II Operating, LLC

Federal F #2

Lea County, New Mexico

Unit Letter "I", Section 29, Township 26 South, Range 37 East

Latitude 32.012409 North, Longitude 103.176436 West

NMOCD Incident # nAPP2313632338

Prepared For:

FAE II Operating, LLC
11757 Katy Freeway, Suite 725
Houston, TX 77079

Prepared By:

Hungry Horse, LLC
4024 Plains Hwy
Lovington, NM 88260
Office: (575) 393-3386

December 2023

Bradley Wells

Bradley Wells
Project Manager
bwells@hungry-horse.com

Daniel Dominguez

Daniel Dominguez
Environmental Manager
ddominguez@hungry-horse.com

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HUNGRY HORSE, LLC

The following *Remediation Summary and Closure Request* serves as a condensed update on field activities undertaken at the afore referenced Site.

Background:

The site is located in Unit Letter I (NE/SE), Section 29, Township 26 South, Range 37 East, approximately seven miles south of Jal, in Lea County, New Mexico. The site is located on private land. Topographic Map, OSE POD Locations Map, and USGS Well Locations Map are included as Figure 1, Figure 2, and Figure 3, respectively.

The release occurred at an active oil well; Latitude 32.012409 North, Longitude 103.178436 West. The Initial NMOCD Form C-141 indicated that on April 20, 2023 approximately 5 bbls of produced water were released due to a leaking valve. A crew was dispatched to the release site and the valve was repaired. Approximately 1 bbls of fluid was recovered. Previously submitted pages of the NMOCD Form C-141 are available on the NMOCD Imaging System. NMOCD Form Initial C-141 is also included as Attachment VII.

NMOCD Site Classification:

A search of the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) groundwater databases was completed in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Approximate depth to groundwater was determined using maintained and published water well data. Karst mapping indicates the site is located in a Karst designated area. Karst and Wetland Maps are provided as Attachment I. Depth to groundwater information is provided as Attachment V and the results are depicted on Figures 2 & 3.

One water well was located within a half mile of the release area. USGS well 320042103103901 was located .28 miles north of the location. Gauging in 2016 indicated depth to water of approximately 83.52 feet bgs. However, as the release occurred within a Karst designated area, the site was remediated according to the strictest NMOCD Closure Criteria. Utilizing this information, the NMOCD Closure Criteria for the Site were determined as follows:

Depth to Groundwater	Constituent	Method	Limit
50' - 100'	Chloride	EPA 300.0 or SM4500 CLB	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	100 mg/kg
	GRO + DRO	EPA SW-846 Method 8015M Ext	NA
	BTEX	EPA SW-846 Methods 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Methods 8021B or 8260B	10 mg/kg



Delineation and Remediation Activities:

On October 12, 2023, Hungry Horse conducted an initial site assessment consisting of photographing, mapping, and sampling the release area. During sampling, hand augered test bores were advanced throughout the affected area in an effort to determine the vertical extent of contamination. These sample locations are identified by SP designation. On October 19, 2023, hand augered sample bores were advanced along the outside edges of the affected area in an effort to determine the horizontal extent of contamination. These sample locations are identified by HZ designation. During the advancement of the hand augered sample bores, soil samples were collected and field screened for the presence of chloride concentrations utilizing a Hach Quantab® chloride test kit.

Based on field observations and field test data noted above and provided in Attachment IV, thirteen representative soil samples were selected for laboratory analysis. Delineation soil samples SP1 through SP4, HZ1 through HZ4, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples, with the exception of SP1 through SP4, which exhibited TPH and/or chloride concentrations in excess of NMOCD Closure Criteria.

On November 8, 2023, the release area was excavated to a depth ranging from three to five feet bgs. Excavated contaminated soil was temporarily stockpiled onsite, atop plastic, before transport to an NMOCD approved disposal facility.

On December 1, 2023, eight composite confirmation soil samples were collected from the excavation floor and sidewalls, every 200 square feet and every 50 linear feet, respectively. Soil samples FL1 through FL5 and SW1 through SW3, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples.

The excavated area measured approximately one thousand square feet. During remediation activities approximately 130 cubic yards of impacted soil were excavated and hauled to an NMOCD approved disposal facility.

A Delineation Sample Map and Excavation Sample Map are provided as Figure 4 and Figure 5, respectively. A Summary of Soil Sample Laboratory Analytical Results is provided as Table 1 and Laboratory Analytical Reports are provided as Attachment VI.

Restoration, Reclamation, and Re-Vegetation:

Based upon laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locally sourced, clean, non-impacted soil. The area was contoured to achieve erosion control and preserve surface water flow.



As the affected area is located on an active well pad, no seeding activities will be required.

Closure Request:

Remediation activities were conducted in accordance with applicable NMOCD Regulations. Soil affected above the NMOCD Closure Criteria has been excavated and hauled to an NMOCD approved facility for disposal. Laboratory analytical results from composite confirmation samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria.

Based on laboratory analytical results, FAE II Operating, LLC respectfully requests closure of the Federal F #2 location, nAPP2313632338.

Limitations:

Hungry Horse, LLC, has prepared this *Remediation Summary and Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Hungry Horse has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Hungry Horse has not conducted an independent examination of the facts contained in referenced materials and statements. Hungry Horse has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Hungry Horse notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.



Distribution:

FAE II Operating, LLC

11757 Katy FWY STE 725
Houston, TX 77079

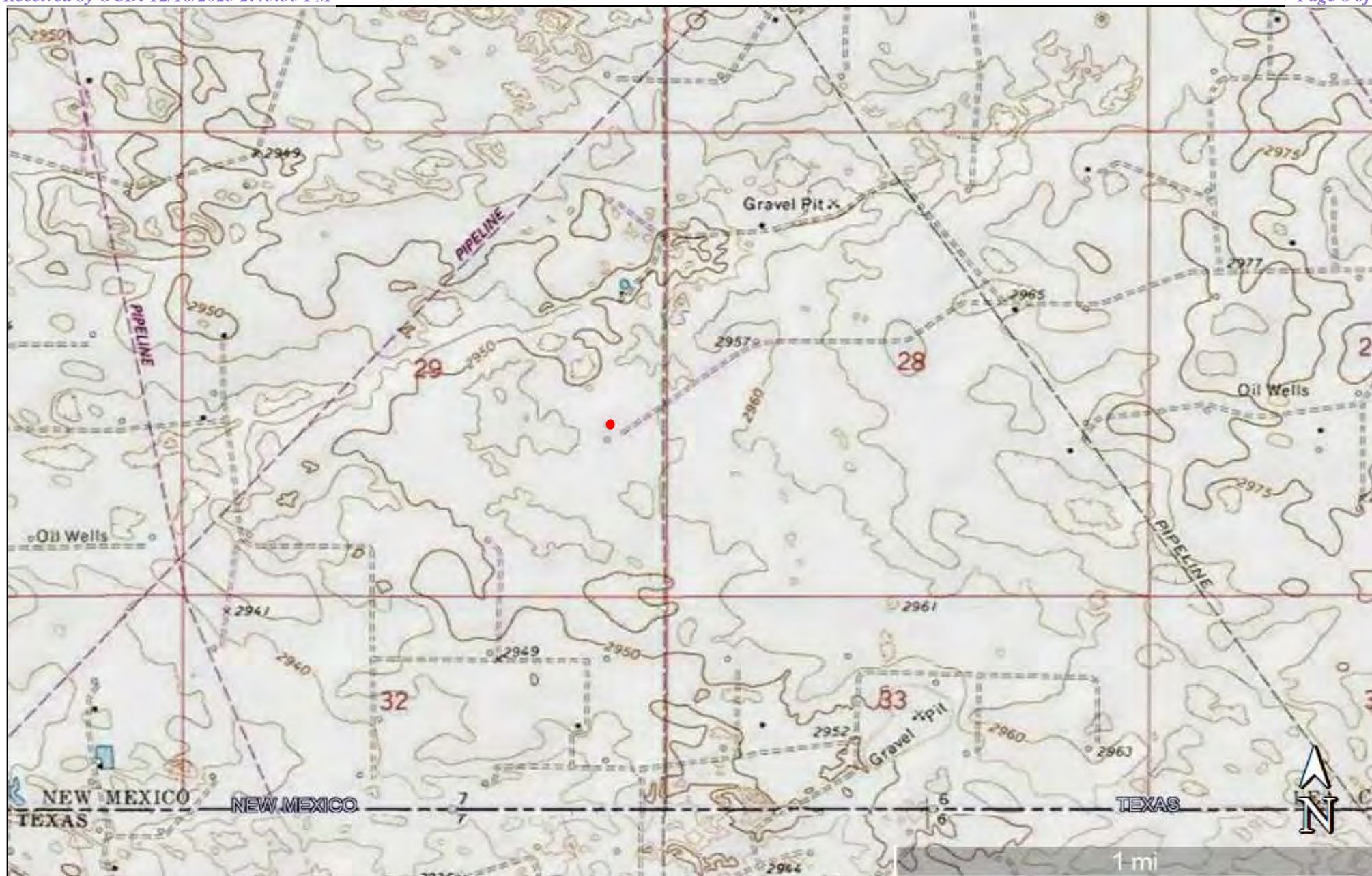
New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2
811 S. First St.
Artesia, NM 88210

DK Boyd

3317 Andrews Hwy
Midland, TX 79703

Figures

**Figure 1**

Topographic Map

FAE II Operating, LLC

Federal F #2

GPS: 32.012409, -103.178436

Lea County

Legend:

- Federal F #2 Location

Drafted: dd

Checked: bw

Date: 12/4/23



**Figure 2**

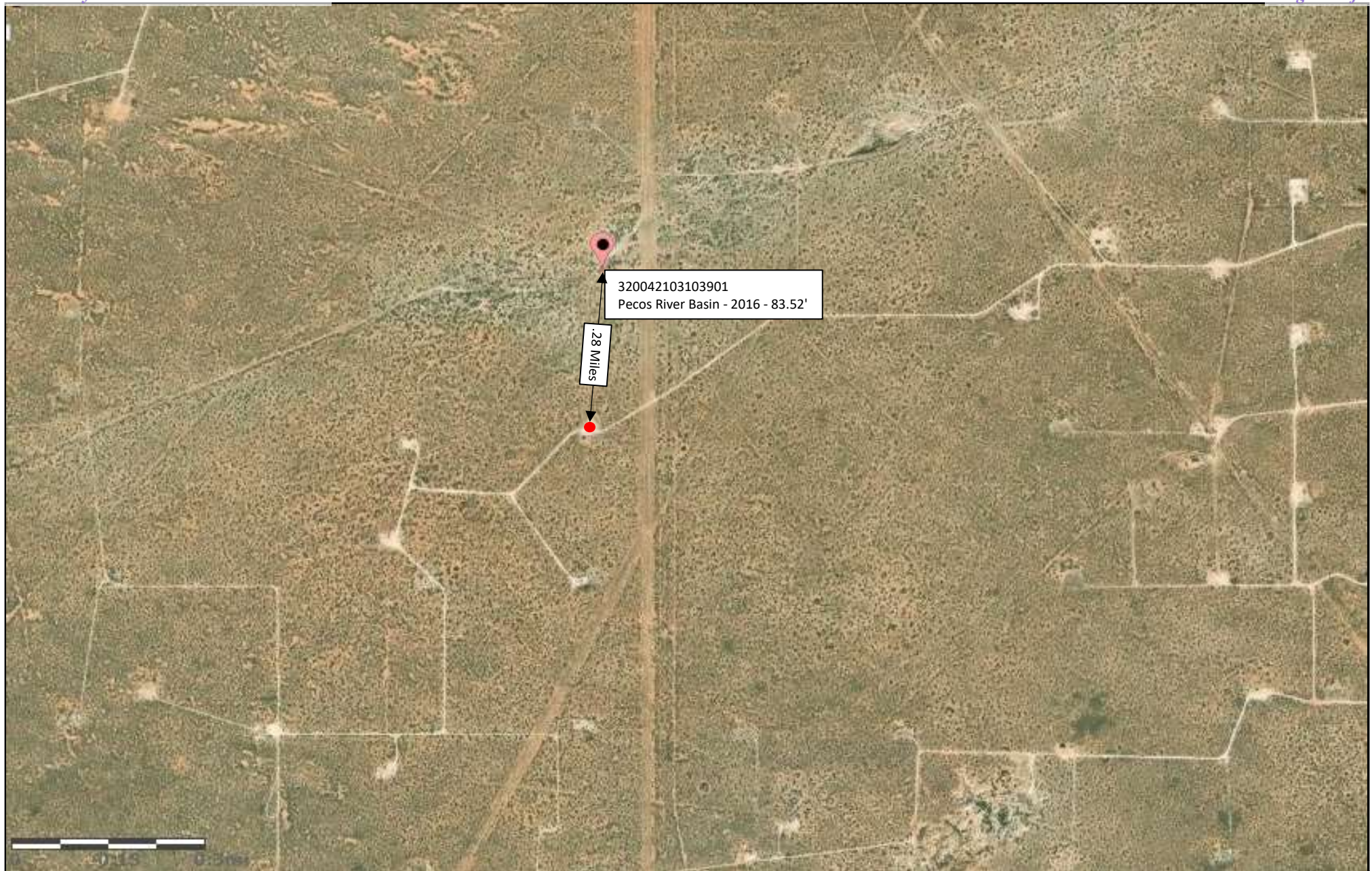
OSE POD Locations Map
FAE II Operating, LLC
Federal F #2
GPS: 32.012409, -103.178436
Lea County

Legend:

● Federal F #2 Location

Drafted: dd
Checked: bw
Date: 12/4/23



**Figure 3**

USGS Well Locations Map
FAE II Operating, LLC
Federal F #2
GPS: 32.012409, -103.178436
Lea County

Legend:

- Federal F #2 Location
- USGS Well Location

Drafted: dd
Checked: bw
Date: 12/4/23



**Figure 4**

Delineation Sample Map
FAE II Operating, LLC
Federal F #2
GPS: 32.012409, -103.178436
Lea County

Legend:

- Release Area
 SP1 Delineation Sample Location

Drafted: dd
Checked: bw
Date: 12/4/23



**Figure 5**

Excavation Sample Map

FAE II Operating, LLC

Federal F #2

GPS: 32.012409, -103.178436

Lea County

Legend:

Excavated Area



Composite Confirmation Sample Location

Drafted: dd

Checked: bw

Date: 12/4/23



Table

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
FAE II Operating, LLC
Federal F #2
NMOCD Ref. #: nAPP2313632338

Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SP1	10/12/23	Surf	Excavated	<0.050	<0.300	<10.0	4,500	4,500	1,900	6,400	240
	10/12/23	1	Excavated	<0.050	<0.300	<10.0	3,940	3,940	1,160	5,100	352
SP2	10/12/23	Surf	Excavated	<0.050	<0.300	<10.0	1,740	1,740	1,140	2,880	5,600
SP3	10/12/23	Surf	Excavated	<0.050	<0.300	<10.0	47.9	47.9	25.1	73.0	7,860
SP4	10/12/23	Surf	Excavated	<0.050	<0.300	<10.0	810	810	715	1,525	4,080
HZ1	10/19/23	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	10/19/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
HZ2	10/19/23	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	10/19/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
HZ3	10/19/23	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
	10/19/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
HZ4	10/19/23	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	10/19/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL1	12/1/23	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL2	12/1/23	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL3	12/1/23	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL4	12/1/23	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL5	12/1/23	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW1	12/1/23	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW2	12/1/23	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW3	12/1/23	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NMOCD Closure Criteria				10	50	-	-	N/A	-	100	600

NOTES:

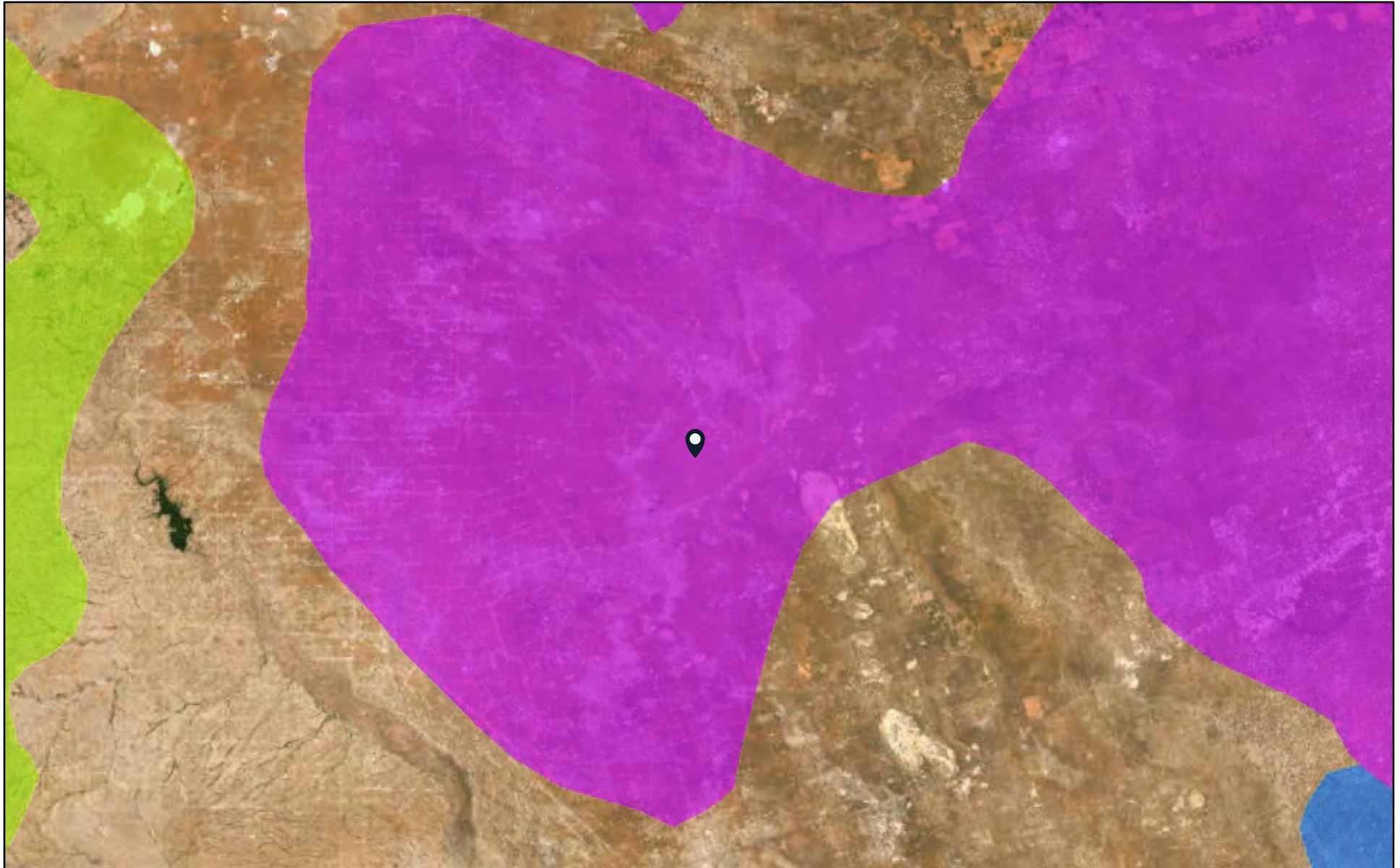
- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Attachment I

Karst and Wetland Maps

Federal F #2



12/4/2023

Karst Type

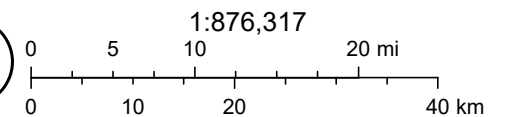
- Carbonate
- Erosional
- Gypsum

- Volcanic
- World Imagery
- Low Resolution 15m Imagery
- High Resolution 60cm Imagery

High Resolution 30cm Imagery

Citations

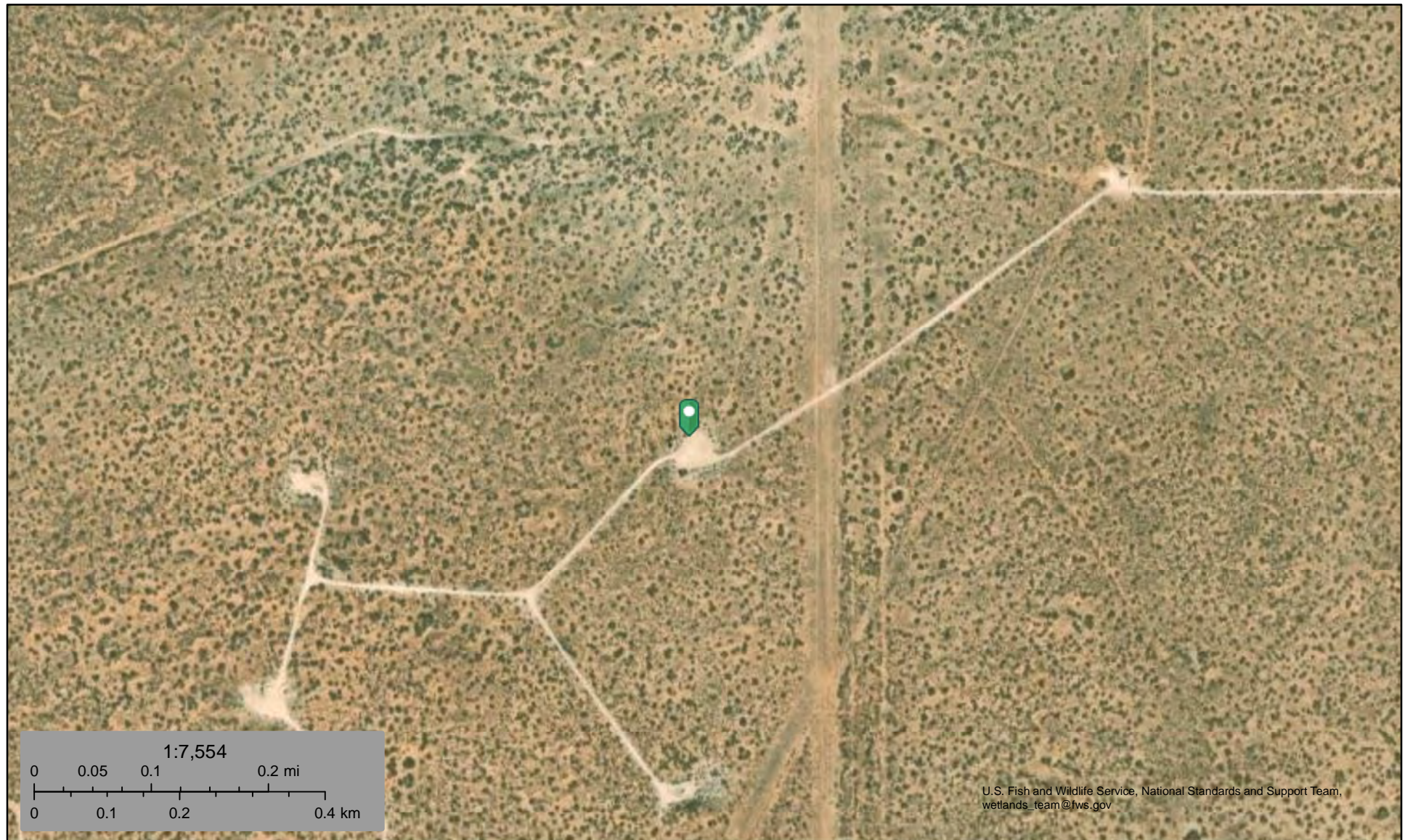
150m Resolution Metadata



U.S. Geological Survey Open-File Report 2004-1352, Caves and Karst in the
U.S. National Park Service, AGI Karst Map of the US., Earthstar Geographics



Federal F #2



December 4, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Attachment II

NMOCD Correspondence

Daniel Dominguez

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Tuesday, November 28, 2023 8:41 AM
To: Daniel Dominguez
Cc: Tyler Van Howe; Velez, Nelson, EMNRD; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] Closure Samples

Good morning Daniel,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Daniel Dominguez <ddominguez@hungry-horse.com>
Sent: Tuesday, November 28, 2023 7:03 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Tyler Van Howe <tyler@faenergyus.com>
Subject: [EXTERNAL] Closure Samples

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

We will be collecting closure samples at the Federal F #2 (nAPP2313632338) on Friday, December 1, 2023, at 8 am.
This is our 2 day notice

Daniel Dominguez
Environmental Manager
Hungry Horse, LLC
(m) 575-408-3134
ddominguez@hungry-horse.com

Tyler Van Howe

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Tuesday, October 17, 2023 1:54 PM
To: Tyler Van Howe
Cc: Bratcher, Michael, EMNRD
Subject: Re: [EXTERNAL] Extension Request for Releases - FAE II Operating LLC

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: IMPORTANT

External (nelson.velez@emnrd.nm.gov)

[Report This Email](#) [FAQ](#) [GoDaddy Advanced Email Security, Powered by INKY](#)

Good afternoon Tyler,

Your request for a sixty-day extension on the incident numbers listed below are approved to December 18, 2023.

1. Federal F #002 (API: 30-025-25077); Incident Number: nAPP2313632338
2. Federal F #003 (API: 30-025-25834); Incident Number: nAPP2313543757
3. Federal F #004 (API: 30-025-26061); Incident Number: nAPP2313546854
4. Moberly Rhodes WF Project #012 (API: 30-025-12017); Incident Number: nAPP2313635015
5. Moberly Rhodes WF Project #010 / CTB (API: 30-025-12017); Incident Number: nAPP2313634226.

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

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

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



From: Tyler Van Howe <tyler@faenergyus.com>
Sent: Monday, October 16, 2023 12:48 PM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Cc: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Tyler Van Howe <tyler@faenergyus.com>
Subject: RE: [EXTERNAL] Extension Request for Releases - FAE II Operating LLC

Good Afternoon, Mike,

We hired a 3rd party environmental remediation company, Hungry Horse, to assist on the below 5 minor releases with extensions approved through October 19, 2023. The site assessments, mapping, and field testing/sampling on all 5 of the locations have been done. We also started the delineation process, but we're going to need some additional time to mobilize a backhoe and associated equipment to continue with further delineation.

We are currently in the process of sending in samples to Cardinal Labs (usually takes about a week for results to come back from the lab) and would like to request an additional 60 days for remediation work to get any remaining affected areas dug out, confirmation samples collected, and finalized reports put together to close out these releases.

If there's any information you may need as far as site pictures or details of the work that has been completed by Hungry Horse, please let me know and I can provide that info. Thank you for your understanding and working with us as we are trying to get these incidents closed out as quickly as possible.

Thank you,

Tyler D. Van Howe | *Production Engineer*

forty acres energy

11757 Katy Freeway, Suite 725 | Houston, TX 77079

C [281.798.4516](tel:281.798.4516)

E tyler@faenergyus.com

From: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Sent: Wednesday, July 12, 2023 2:42 PM
To: Tyler Van Howe <tyler@faenergyus.com>
Cc: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Extension Request for Releases - FAE II Operating LLC

Tyler,

Your request for a ninety day extension on the incident numbers listed below and on the attached letter, is approved to October 19, 2023. Note the remediation due date was July 19, 2023 for these incidents. This extension is for remedial work only. Any other infractions noted on the OCD field inspections are not included in this approval. Those items will need to be addressed with Mr. Bolton.

Please include a copy of this and all correspondence, including the attached letter, in your reports to insure inclusion in the project file.

Thank you,

Mike Bratcher • Incident Supervisor
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave | Artesia, NM 88210
(575) 626-0857 | mike.bratcher@emnrd.nm.gov
<http://www.emnrd.nm.gov/ocd>



From: Tyler Van Howe <tyler@faenergyus.com>
Sent: Thursday, July 6, 2023 5:05 PM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: [EXTERNAL] Extension Request for Releases - FAE II Operating LLC

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

Good Afternoon, Mike,

As per our conversation earlier today, please see the attached letter requesting a 90-day extension (past the required listed compliance date of 7/27/2023) regarding the below releases. These were all historical releases that were identified and brought to our attention following recent field inspections.

1. Federal F #002 (API: 30-025-25077); Incident Number: nAPP2313632338
2. Federal F #003 (API: 30-025-25834); Incident Number: nAPP2313543757
3. Federal F #004 (API: 30-025-26061); Incident Number: nAPP2313546854
4. Moberly Rhodes WF Project #012 (API: 30-025-12017); Incident Number: nAPP2313635015
5. Moberly Rhodes WF Project #010 / CTB (API: 30-025-12017); Incident Number: nAPP2313634226

If you have any questions or need any additional information, please don't hesitate to reach out. Thank you again for your understanding as we are diligently trying to get these issues resolved.

Thank you,

Tyler D. Van Howe | *Production Engineer*

forty acres energy

11757 Katy Freeway, Suite 725 | Houston, TX 77079

C [281.798.4516](tel:281.798.4516)

E tyler@faenergyus.com

Attachment III Site Photographs

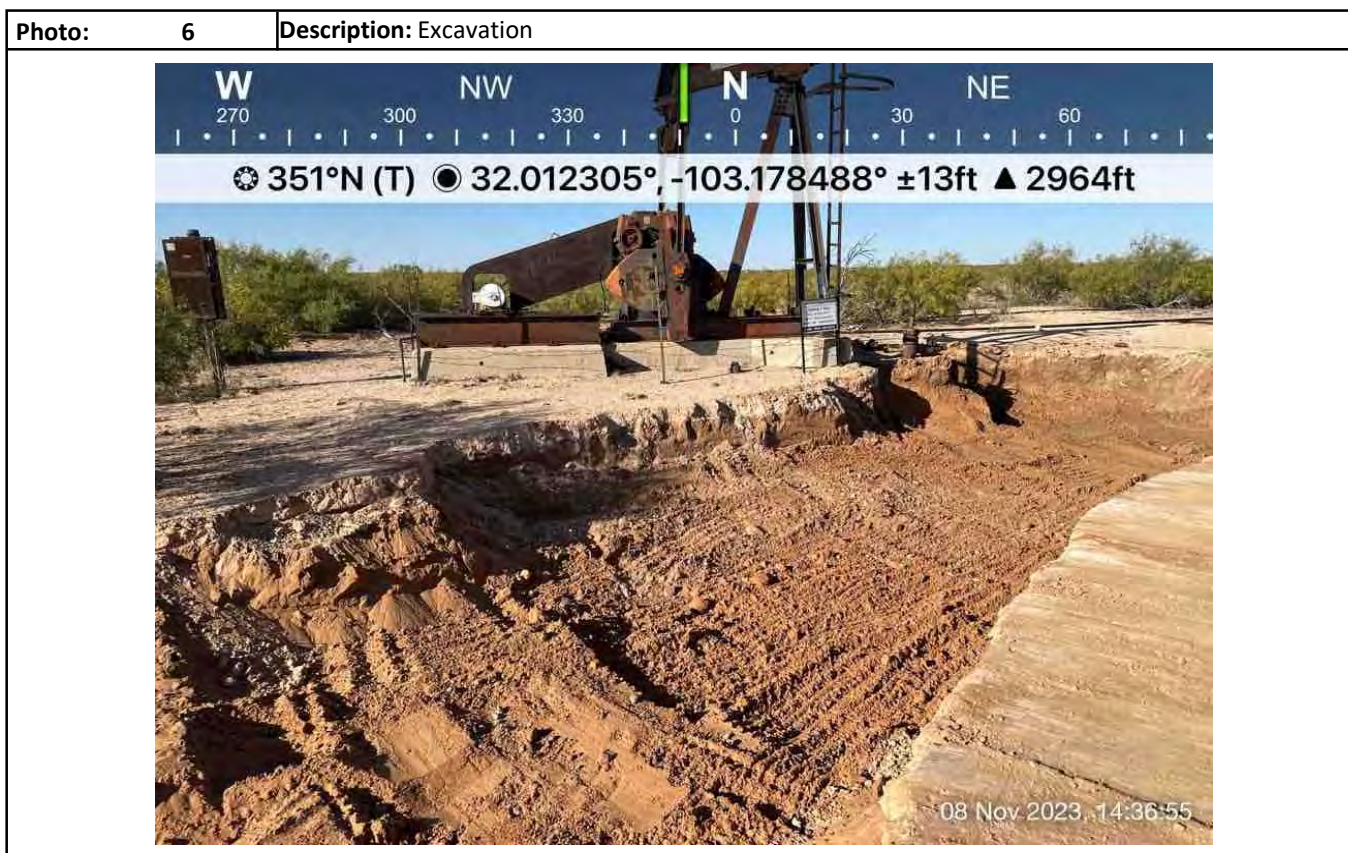
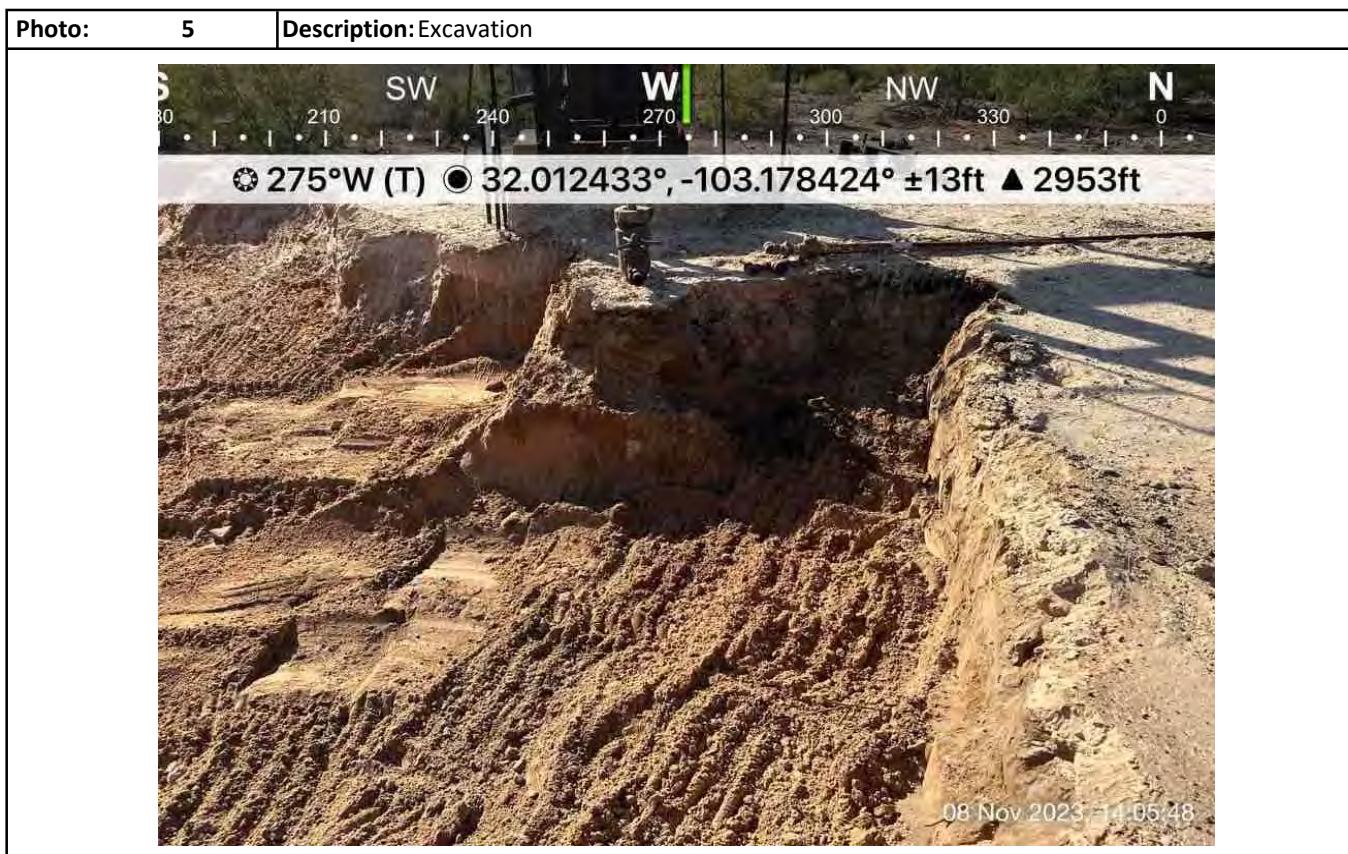
Photographs



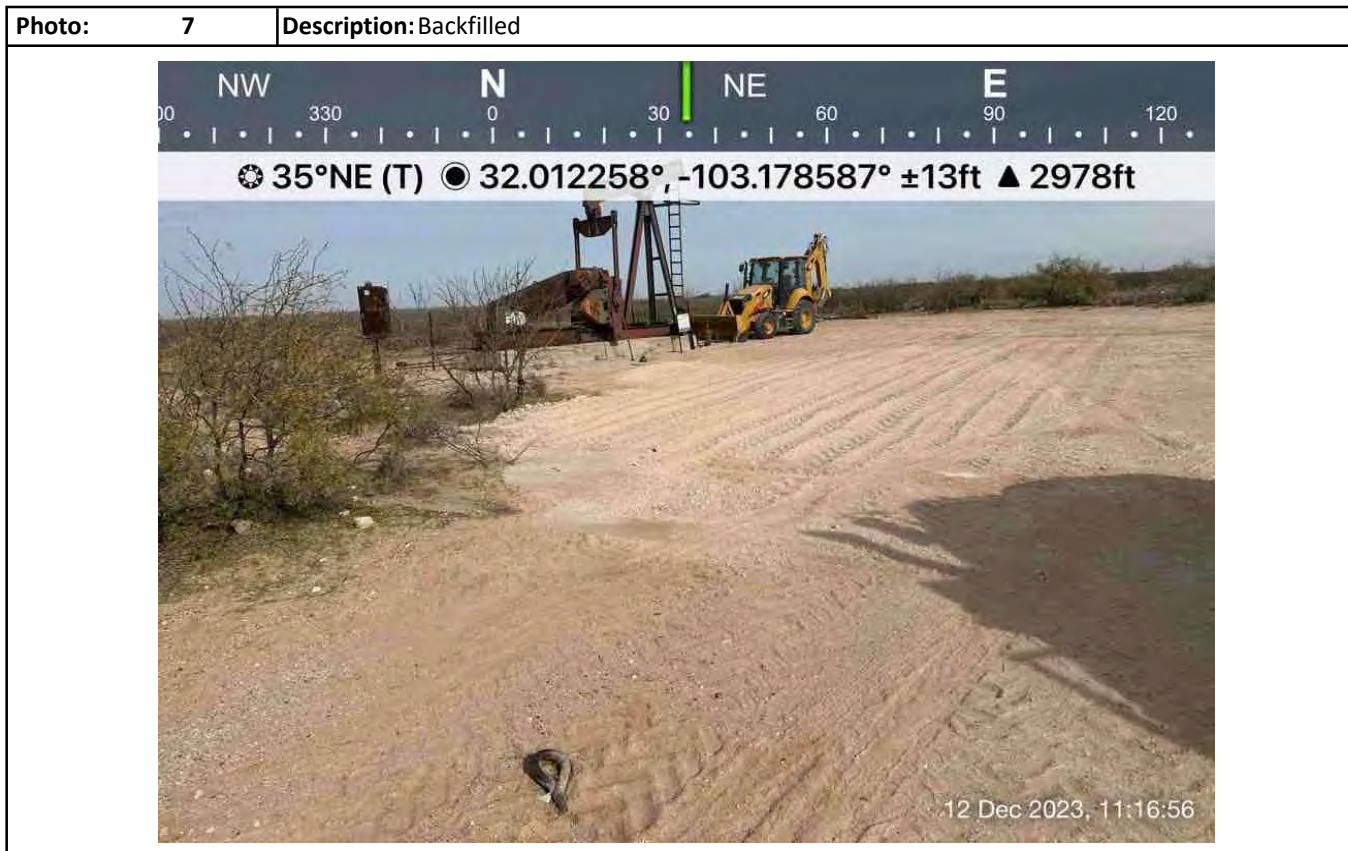
Photographs



Photographs



Photographs



Attachment IV

Field Data

Hungry Horse, LLC

Date: 10-12-23

GPS:

Sampler: Jerry Heidelberg

Stockpile = Stockpile #1

Attachment V

Depth to Groundwater



New Mexico Office of the State Engineer
Wells with Well Log Information

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 672046 Northing (Y): 3543261.22 Radius: 805

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for particular purpose of the data.

12/4/23 2:45 PM

WELLS WITH WELL LOG INFORMATION



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
United States

GO

Click to hideNews Bulletins

- Explore the NEW [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for the Nation

Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320042103103901

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 320042103103901 26S.37E.29.24230

Lea County, New Mexico
Latitude 32°00'59.0", Longitude 103°10'40.5" NAD83
Land-surface elevation 2,952.00 feet above NGVD29
The depth of the well is 115 feet below land surface.
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1965-10-19			D 62610		2864.10	NGVD29	1		Z	
1965-10-19			D 62611		2865.44	NAVD88	1		Z	
1965-10-19			D 72019	87.90			1		Z	
1968-02-13			D 62610		2864.57	NGVD29	P		Z	
1968-02-13			D 62611		2865.91	NAVD88	P		Z	
1968-02-13			D 72019	87.43			P		Z	
1970-12-01			D 62610		2863.55	NGVD29	P		Z	
1970-12-01			D 62611		2864.89	NAVD88	P		Z	
1970-12-01			D 72019	88.45			P		Z	
1976-01-08			D 62610		2863.17	NGVD29	1		Z	
1976-01-08			D 62611		2864.51	NAVD88	1		Z	
1976-01-08			D 72019	88.83			1		Z	
1981-03-17			D 62610		2864.48	NGVD29	1		Z	
1981-03-17			D 62611		2865.82	NAVD88	1		Z	
1981-03-17			D 72019	87.52			1		Z	
1986-03-06			D 62610		2866.12	NGVD29	1		Z	

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1986-03-06			D	62611	2867.46	NAVD88	1	Z		
1986-03-06			D	72019	85.88		1	Z		
1990-11-14			D	62610	2866.00	NGVD29	1	Z		
1990-11-14			D	62611	2867.34	NAVD88	1	Z		
1990-11-14			D	72019	86.00		1	Z		
1996-02-28			D	62610	2865.75	NGVD29	1	S		
1996-02-28			D	62611	2867.09	NAVD88	1	S		
1996-02-28			D	72019	86.25		1	S		
2012-05-22	16:30 UTC		m	62610	2867.83	NGVD29	P	S	USGS	
2012-05-22	16:30 UTC		m	62611	2869.17	NAVD88	P	S	USGS	
2012-05-22	16:30 UTC		m	72019	84.17		P	S	USGS	
2012-08-13	17:15 UTC		m	62610	2861.54	NGVD29	P	S	USGS	
2012-08-13	17:15 UTC		m	62611	2862.88	NAVD88	P	S	USGS	
2012-08-13	17:15 UTC		m	72019	90.46		P	S	USGS	
2012-12-17	21:10 UTC		m	62610	2867.33	NGVD29	P	S	USGS	
2012-12-17	21:10 UTC		m	62611	2868.67	NAVD88	P	S	USGS	
2012-12-17	21:10 UTC		m	72019	84.67		P	S	USGS	
2013-08-08	19:00 UTC		m	62610	2868.09	NGVD29	P	S	USGS	
2013-08-08	19:00 UTC		m	62611	2869.43	NAVD88	P	S	USGS	
2013-08-08	19:00 UTC		m	72019	83.91		P	S	USGS	
2013-12-10	17:15 UTC		m	62610	2861.87	NGVD29	1	S	USGS	
2013-12-10	17:15 UTC		m	62611	2863.21	NAVD88	1	S	USGS	
2013-12-10	17:15 UTC		m	72019	90.13		1	S	USGS	
2014-07-31	17:20 UTC		m	62610	2867.90	NGVD29	P	S	USGS	
2014-07-31	17:20 UTC		m	62611	2869.24	NAVD88	P	S	USGS	
2014-07-31	17:20 UTC		m	72019	84.10		P	S	USGS	
2014-12-16	16:00 UTC		m	62610	2866.88	NGVD29	P	S	USGS	
2014-12-16	16:00 UTC		m	62611	2868.22	NAVD88	P	S	USGS	
2014-12-16	16:00 UTC		m	72019	85.12		P	S	USGS	
2015-07-08	18:00 UTC		m	62610	2868.06	NGVD29	P	S	USGS	
2015-07-08	18:00 UTC		m	62611	2869.40	NAVD88	P	S	USGS	
2015-07-08	18:00 UTC		m	72019	83.94		P	S	USGS	
2015-12-14	15:00 UTC		m	62610	2869.09	NGVD29	P	S	USGS	
2015-12-14	15:00 UTC		m	62611	2870.43	NAVD88	P	S	USGS	
2015-12-14	15:00 UTC		m	72019	82.91		P	S	USGS	
2016-07-21	20:50 UTC		m	62610	2868.48	NGVD29	P	S	USGS	
2016-07-21	20:50 UTC		m	62611	2869.82	NAVD88	P	S	USGS	
2016-07-21	20:50 UTC		m	72019	83.52		P	S	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929

Section	Code	Description
Status	1	Static
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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[Help](#)
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[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2023-12-14 11:59:37 EST

0.28 0.24 nadww01

Attachment VI

Laboratory Analytical Reports



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

October 20, 2023

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: FEDERAL F #2

Enclosed are the results of analyses for samples received by the laboratory on 10/17/23 16:11.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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



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

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	10/17/2023	Sampling Date:	10/12/2023
Reported:	10/20/2023	Sampling Type:	Soil
Project Name:	FEDERAL F #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / I SEC 29 T26S - R37E		

Sample ID: SP 1 - SURF (H235688-01)

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	10/19/2023	ND	2.02	101	2.00	1.87		
Toluene*	<0.050	0.050	10/19/2023	ND	1.97	98.3	2.00	1.16		
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.01	100	2.00	0.780		
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.93	98.8	6.00	0.600		
Total BTEX	<0.300	0.300	10/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	240	16.0	10/18/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	176	88.2	200	4.41	
DRO >C10-C28*	4500	10.0	10/18/2023	ND	171	85.3	200	0.844	QM-07
EXT DRO >C28-C36	1900	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 172 % 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:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 10/17/2023
 Reported: 10/20/2023
 Project Name: FEDERAL F #2
 Project Number: NONE GIVEN
 Project Location: UL / I SEC 29 T26S - R37E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 - 1' (H235688-02)

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	10/19/2023	ND	2.02	101	2.00	1.87		
Toluene*	<0.050	0.050	10/19/2023	ND	1.97	98.3	2.00	1.16		
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.01	100	2.00	0.780		
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.93	98.8	6.00	0.600		
Total BTEX	<0.300	0.300	10/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	352	16.0	10/18/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	176	88.2	200	4.41	
DRO >C10-C28*	3940	10.0	10/18/2023	ND	171	85.3	200	0.844	
EXT DRO >C28-C36	1160	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 155 % 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:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 10/17/2023
 Reported: 10/20/2023
 Project Name: FEDERAL F #2
 Project Number: NONE GIVEN
 Project Location: UL / I SEC 29 T26S - R37E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 - SURF (H235688-03)

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	10/19/2023	ND	2.02	101	2.00	1.87		
Toluene*	<0.050	0.050	10/19/2023	ND	1.97	98.3	2.00	1.16		
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.01	100	2.00	0.780		
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.93	98.8	6.00	0.600		
Total BTEx	<0.300	0.300	10/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	5600	16.0	10/18/2023	ND	416	104	400	3.77		

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	10/18/2023	ND	176	88.2	200	4.41	
DRO >C10-C28*	1740	10.0	10/18/2023	ND	171	85.3	200	0.844	
EXT DRO >C28-C36	1140	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 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:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 10/17/2023
 Reported: 10/20/2023
 Project Name: FEDERAL F #2
 Project Number: NONE GIVEN
 Project Location: UL / I SEC 29 T26S - R37E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 - SURF (H235688-04)

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	10/19/2023	ND	2.02	101	2.00	1.87		
Toluene*	<0.050	0.050	10/19/2023	ND	1.97	98.3	2.00	1.16		
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.01	100	2.00	0.780		
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.93	98.8	6.00	0.600		
Total BTEX	<0.300	0.300	10/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	7860	16.0	10/18/2023	ND	416	104	400	3.77		

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	10/18/2023	ND	176	88.2	200	4.41	
DRO >C10-C28*	47.9	10.0	10/18/2023	ND	171	85.3	200	0.844	
EXT DRO >C28-C36	25.1	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 10/17/2023
 Reported: 10/20/2023
 Project Name: FEDERAL F #2
 Project Number: NONE GIVEN
 Project Location: UL / I SEC 29 T26S - R37E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 - SURF (H235688-05)

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	10/19/2023	ND	2.02	101	2.00	1.87		
Toluene*	<0.050	0.050	10/19/2023	ND	1.97	98.3	2.00	1.16		
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.01	100	2.00	0.780		
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.93	98.8	6.00	0.600		
Total BTEx	<0.300	0.300	10/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	4080	16.0	10/18/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	176	88.2	200	4.41	
DRO >C10-C28*	810	10.0	10/18/2023	ND	171	85.3	200	0.844	
EXT DRO >C28-C36	715	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 155 % 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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

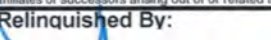
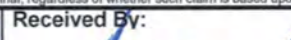



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: 		Date: 10-17-23	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Time: 1611		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS: Email results to: pm@hungry-horse.com tyler@faenergyus.com	
		Time:			
Delivered By: (Circle One)		#140	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) 	
Sampler - UPS - Bus - Other: -4.2					

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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

October 26, 2023

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: FEDERAL F #2

Enclosed are the results of analyses for samples received by the laboratory on 10/20/23 12:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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



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

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	10/20/2023	Sampling Date:	10/19/2023
Reported:	10/26/2023	Sampling Type:	Soil
Project Name:	FEDERAL F #2	Sampling Condition:	Cool & Intact
Project Number:	FORTY ACRES	Sample Received By:	Tamara Oldaker
Project Location:	UL / I SEC 29 T26S - R37E		

Sample ID: HZ 1 - SURF (H235760-01)

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	10/24/2023	ND	2.21	111	2.00	0.416	
Toluene*	<0.050	0.050	10/24/2023	ND	2.19	110	2.00	7.54	
Ethylbenzene*	<0.050	0.050	10/24/2023	ND	2.30	115	2.00	10.1	
Total Xylenes*	<0.150	0.150	10/24/2023	ND	6.94	116	6.00	10.6	
Total BTEX	<0.300	0.300	10/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	<16.0	16.0	10/24/2023	ND	416	104	400	3.77		

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	10/23/2023	ND	202	101	200	3.27	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	206	103	200	8.67	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 10/20/2023
 Reported: 10/26/2023
 Project Name: FEDERAL F #2
 Project Number: FORTY ACRES
 Project Location: UL / I SEC 29 T26S - R37E

Sampling Date: 10/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HZ 1 - 1' (H235760-02)

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	10/24/2023	ND	2.21	111	2.00	0.416		
Toluene*	<0.050	0.050	10/24/2023	ND	2.19	110	2.00	7.54		
Ethylbenzene*	<0.050	0.050	10/24/2023	ND	2.30	115	2.00	10.1		
Total Xylenes*	<0.150	0.150	10/24/2023	ND	6.94	116	6.00	10.6		
Total BTEx	<0.300	0.300	10/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/24/2023	ND	416	104	400	3.77		

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	10/23/2023	ND	202	101	200	3.27	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	206	103	200	8.67	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 10/20/2023
 Reported: 10/26/2023
 Project Name: FEDERAL F #2
 Project Number: FORTY ACRES
 Project Location: UL / I SEC 29 T26S - R37E

Sampling Date: 10/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HZ 2 - SURF (H235760-03)

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	10/24/2023	ND	2.21	111	2.00	0.416		
Toluene*	<0.050	0.050	10/24/2023	ND	2.19	110	2.00	7.54		
Ethylbenzene*	<0.050	0.050	10/24/2023	ND	2.30	115	2.00	10.1		
Total Xylenes*	<0.150	0.150	10/24/2023	ND	6.94	116	6.00	10.6		
Total BTEx	<0.300	0.300	10/24/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/24/2023	ND	416	104	400	3.77		

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	10/23/2023	ND	202	101	200	3.27	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	206	103	200	8.67	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 10/20/2023
 Reported: 10/26/2023
 Project Name: FEDERAL F #2
 Project Number: FORTY ACRES
 Project Location: UL / I SEC 29 T26S - R37E

Sampling Date: 10/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HZ 2 - 1' (H235760-04)

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	10/24/2023	ND	2.21	111	2.00	0.416		
Toluene*	<0.050	0.050	10/24/2023	ND	2.19	110	2.00	7.54		
Ethylbenzene*	<0.050	0.050	10/24/2023	ND	2.30	115	2.00	10.1		
Total Xylenes*	<0.150	0.150	10/24/2023	ND	6.94	116	6.00	10.6		
Total BTEX	<0.300	0.300	10/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	32.0	16.0	10/24/2023	ND	416	104	400	3.77		

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	10/23/2023	ND	202	101	200	3.27	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	206	103	200	8.67	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 10/20/2023
 Reported: 10/26/2023
 Project Name: FEDERAL F #2
 Project Number: FORTY ACRES
 Project Location: UL / I SEC 29 T26S - R37E

Sampling Date: 10/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HZ 3 - SURF (H235760-05)

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	10/24/2023	ND	2.21	111	2.00	0.416	
Toluene*	<0.050	0.050	10/24/2023	ND	2.19	110	2.00	7.54	
Ethylbenzene*	<0.050	0.050	10/24/2023	ND	2.30	115	2.00	10.1	
Total Xylenes*	<0.150	0.150	10/24/2023	ND	6.94	116	6.00	10.6	
Total BTEX	<0.300	0.300	10/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	16.0	16.0	10/24/2023	ND	416	104	400	3.77		

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	10/23/2023	ND	202	101	200	3.27	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	206	103	200	8.67	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 10/20/2023
 Reported: 10/26/2023
 Project Name: FEDERAL F #2
 Project Number: FORTY ACRES
 Project Location: UL / I SEC 29 T26S - R37E

Sampling Date: 10/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HZ 3 - 1' (H235760-06)

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	10/24/2023	ND	2.21	111	2.00	0.416		
Toluene*	<0.050	0.050	10/24/2023	ND	2.19	110	2.00	7.54		
Ethylbenzene*	<0.050	0.050	10/24/2023	ND	2.30	115	2.00	10.1		
Total Xylenes*	<0.150	0.150	10/24/2023	ND	6.94	116	6.00	10.6		
Total BTEx	<0.300	0.300	10/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/24/2023	ND	416	104	400	3.77		

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	10/23/2023	ND	202	101	200	3.27	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	206	103	200	8.67	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 10/20/2023
 Reported: 10/26/2023
 Project Name: FEDERAL F #2
 Project Number: FORTY ACRES
 Project Location: UL / I SEC 29 T26S - R37E

Sampling Date: 10/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HZ 4 - SURF (H235760-07)

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	10/24/2023	ND	2.21	111	2.00	0.416		
Toluene*	<0.050	0.050	10/24/2023	ND	2.19	110	2.00	7.54		
Ethylbenzene*	<0.050	0.050	10/24/2023	ND	2.30	115	2.00	10.1		
Total Xylenes*	<0.150	0.150	10/24/2023	ND	6.94	116	6.00	10.6		
Total BTEx	<0.300	0.300	10/24/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/24/2023	ND	416	104	400	3.77		

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	10/23/2023	ND	202	101	200	3.27	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	206	103	200	8.67	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 10/20/2023
 Reported: 10/26/2023
 Project Name: FEDERAL F #2
 Project Number: FORTY ACRES
 Project Location: UL / I SEC 29 T26S - R37E

Sampling Date: 10/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HZ 4 - 1' (H235760-08)

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	10/24/2023	ND	2.21	111	2.00	0.416		
Toluene*	<0.050	0.050	10/24/2023	ND	2.19	110	2.00	7.54		
Ethylbenzene*	<0.050	0.050	10/24/2023	ND	2.30	115	2.00	10.1		
Total Xylenes*	<0.150	0.150	10/24/2023	ND	6.94	116	6.00	10.6		
Total BTEX	<0.300	0.300	10/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	16.0	16.0	10/24/2023	ND	416	104	400	3.77		

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	10/23/2023	ND	202	101	200	3.27	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	206	103	200	8.67	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 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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A handwritten signature in black ink, appearing to read "Caley D. Keene".

Caley 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

Page 11 of 11

Company Name: Forty Acres		Project Manager: Daniel Dominguez		Address: PO Box 1058		City: Hobbs		State: NM		Zip: 88241		Phone #: 575 393-3386		Fax #:		Project #:		Project Name: Federal F #2		Project Location: UL / I Sec 29 T26S - R37E		Sampler Name: Jerry Heidelberg			
P.O. #:		Company: Forty Acres		Attn: Tyler Van Howe		Address: 11757 Katy FWY Suite 725		City: Houston		State: TX		Zip: 77079		Phone #: 806-420-8278		Fax #:									
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP		# CONTAINERS		MATRIX		PRESERV.		SAMPLING		DATE		TIME		Chloride		TPH		BTEX 8021	
		H235760				GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER		ACID/BASE		ICE / COOL		OTHER			
1		HZ1-Surf		G 1		X										X		10/19/23				X		X	
2		HZ1-1'		G 1		X										X		10/19/23				X		X	
3		HZ2-Surf		G 1		X										X		10/19/23				X		X	
4		HZ2-1'		G 1		X										X		10/19/23				X		X	
5		HZ3-Surf		G 1		X										X		10/19/23				X		X	
6		HZ3-1'		G 1		X										X		10/19/23				X		X	
7		HZ4-Surf		G 1		X										X		10/19/23				X		X	
8		HZ4-1'		G 1		X										X		10/19/23				X		X	

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Relinquished By:

Date: 10/20/23

Time: 12:40

Received By:

Received By:

Relinquished By:

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

-1.9°

#140

Sample Condition

Cool Intact

Yes Yes

No No

CHECKED BY:

(Initials)

T.O.

Phone Result:

☐ Yes ☐ No

Add'l Phone #:

Fax Result:

☐ Yes ☐ No

Add'l Fax #:

REMARKS:

Email results to: pm@hungry-horse.com

tyler@faenergyus.com

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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

December 06, 2023

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: FEDERAL F #2

Enclosed are the results of analyses for samples received by the laboratory on 12/01/23 15:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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



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

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 12/01/2023
 Reported: 12/06/2023
 Project Name: FEDERAL F #2
 Project Number: FORTY ACRES
 Project Location: UL / I SEC 29 T26S - R37E

Sampling Date: 12/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 1 - 3' (H236475-01)

BTX 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	12/04/2023	ND	2.23	112	2.00	12.2	
Toluene*	<0.050	0.050	12/04/2023	ND	2.20	110	2.00	12.7	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.16	108	2.00	12.7	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.86	114	6.00	10.5	
Total BTX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	16.0	16.0	12/04/2023	ND	416	104	400	3.92	

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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 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:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 12/01/2023
 Reported: 12/06/2023
 Project Name: FEDERAL F #2
 Project Number: FORTY ACRES
 Project Location: UL / I SEC 29 T26S - R37E

Sampling Date: 12/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 2 - 3' (H236475-02)

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	12/04/2023	ND	2.23	112	2.00	12.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.20	110	2.00	12.7		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.16	108	2.00	12.7		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.86	114	6.00	10.5		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	32.0	16.0	12/04/2023	ND	416	104	400	3.92		

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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.3 % 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:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 12/01/2023
 Reported: 12/06/2023
 Project Name: FEDERAL F #2
 Project Number: FORTY ACRES
 Project Location: UL / I SEC 29 T26S - R37E

Sampling Date: 12/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 3 - 3' (H236475-03)

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	12/04/2023	ND	2.23	112	2.00	12.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.20	110	2.00	12.7		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.16	108	2.00	12.7		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.86	114	6.00	10.5		
Total BTEx	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/04/2023	ND	416	104	400	3.92		

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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 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:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 12/01/2023
 Reported: 12/06/2023
 Project Name: FEDERAL F #2
 Project Number: FORTY ACRES
 Project Location: UL / I SEC 29 T26S - R37E

Sampling Date: 12/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 4 - 4' (H236475-04)

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	12/04/2023	ND	2.23	112	2.00	12.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.20	110	2.00	12.7		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.16	108	2.00	12.7		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.86	114	6.00	10.5		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/04/2023	ND	416	104	400	3.92		

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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 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:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 12/01/2023
 Reported: 12/06/2023
 Project Name: FEDERAL F #2
 Project Number: FORTY ACRES
 Project Location: UL / I SEC 29 T26S - R37E

Sampling Date: 12/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 5 - 5' (H236475-05)

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	12/04/2023	ND	2.23	112	2.00	12.2	
Toluene*	<0.050	0.050	12/04/2023	ND	2.20	110	2.00	12.7	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.16	108	2.00	12.7	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.86	114	6.00	10.5	
Total BTEx	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/04/2023	ND	416	104	400	3.92		

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	12/04/2023	ND	191	95.6	200	3.81	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	173	86.3	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 12/01/2023
 Reported: 12/06/2023
 Project Name: FEDERAL F #2
 Project Number: FORTY ACRES
 Project Location: UL / I SEC 29 T26S - R37E

Sampling Date: 12/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 1 - 1.5' (H236475-06)

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	12/04/2023	ND	2.23	112	2.00	12.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.20	110	2.00	12.7		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.16	108	2.00	12.7		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.86	114	6.00	10.5		
Total BTEx	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/04/2023	ND	416	104	400	3.92		

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	12/04/2023	ND	191	95.6	200	3.81	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	173	86.3	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 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:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 12/01/2023
 Reported: 12/06/2023
 Project Name: FEDERAL F #2
 Project Number: FORTY ACRES
 Project Location: UL / I SEC 29 T26S - R37E

Sampling Date: 12/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 2 - 1.5' (H236475-07)

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	12/04/2023	ND	2.23	112	2.00	12.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.20	110	2.00	12.7		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.16	108	2.00	12.7		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.86	114	6.00	10.5		
Total BTEx	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/04/2023	ND	416	104	400	3.92		

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	12/04/2023	ND	191	95.6	200	3.81	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	173	86.3	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 12/01/2023
 Reported: 12/06/2023
 Project Name: FEDERAL F #2
 Project Number: FORTY ACRES
 Project Location: UL / I SEC 29 T26S - R37E

Sampling Date: 12/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 3 - 1.5' (H236475-08)

BTX 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	12/04/2023	ND	2.23	112	2.00	12.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.20	110	2.00	12.7		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.16	108	2.00	12.7		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.86	114	6.00	10.5		
Total BTX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/04/2023	ND	416	104	400	3.92		

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	12/04/2023	ND	191	95.6	200	3.81	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	173	86.3	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 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

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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 11 of 11

Company Name: Forty Acres		BILL TO		ANALYSIS REQUEST																			
Project Manager: Daniel Dominguez		P.O. #:																					
Address: PO Box 1058		Company: Forty Acres																					
City: Hobbs	State: NM	Zip: 88241	Attn: Tyler Van Howe																				
Phone #: 575 393-3386	Fax #:	Address: 11757 Katy FWY Suite 725																					
Project #:	Project Owner: Forty Acres	City: Houston																					
Project Name: Federal F #2	State: TX		Zip: 77079																				
Project Location: UL/ I Sec 29 T26S - R37E	Phone #: 806-420-8278																						
Sampler Name: Jerry Heidelberg	Fax #:																						
FOR LAB USE ONLY		MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(G/RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	Chloride	TPH	BTEX 8021						
H236475	1 FL1-3'	C	1			X					X		12/1/23		X	X	X						
	2 FL2-3'	C	1			X					X		12/1/23		X	X	X						
	3 FL3-3'	C	1			X					X		12/1/23		X	X	X						
	4 FL4-4'	C	1			X					X		12/1/23		X	X	X						
	5 FL5-5'	C	1			X					X		12/1/23		X	X	X						
	6 SW1-1.5'	C	1			X					X		12/1/23		X	X	X						
	7 SW2-1.5'	C	1			X					X		12/1/23		X	X	X						
	8 SW3-1.5'	C	1			X					X		12/1/23		X	X	X						

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. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 12-1-23 Time: 555	Received By: S. Rodrianey	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Time:	Sample Condition	REMARKS:	
Sampler - UPS - Bus - Other:		Cool Intact	Email results to: pm@hungry-horse.com	
		<input type="checkbox"/> Yes <input type="checkbox"/> No	tyler@faenergyus.com	
		<input type="checkbox"/> No <input type="checkbox"/> No		
		CHECKED BY: (Initials)		

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

Attachment VII
NMOCD Form Initial C-141

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

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

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

Incident ID	nAPP2313632338
District RP	
Facility ID	
Application ID	217171

Release Notification

Responsible Party

Responsible Party FAE II	OGRID 329326
Contact Name Tyler Van Howe	Contact Telephone 281-798-4516
Contact email tyler@faenergyus.com	Incident # (assigned by OCD) nAPP2313632338
Contact mailing address 11757 Katy FWY Suite 725, Houston, TX 77079	

Location of Release Source

Latitude 32.012303 Longitude -103.17839
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Federal F #002	Site Type Well Location
Date Release Discovered 4/20/2023	API# (if applicable) 30-025-25077

Unit Letter	Section	Township	Range	County
I	29	26S	37E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Clay Boyd)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 5 bbls	Volume Recovered (bbls) 1 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

There appears to have been a leaking valve that caused dirty produced water to be released. This release has been cleaned up and replaced with fresh caliche.

Incident ID	nAPP2313632338
District RP	
Facility ID	
Application ID	217171

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

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Tyler Van Howe</u>	Title: <u>Production Engineer</u>
Signature: <u>Tyler D. VanHowe</u>	Date: <u>05/31/2023</u>
email: <u>tyler@faenergyus.com</u>	Telephone: <u>281-798-4516</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>06/05/2023</u>

Released Volume Calculation	
Length	11 feet
Width	14 feet
Thickness	2 inch

Volume = L*W*T

Total Released Volume = 164.9 gallons (US, dry)
3.93 bbls

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District III
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Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 223775

CONDITIONS

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 223775
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	6/5/2023

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State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 295852

QUESTIONS

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 295852
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2313632338
Incident Name	NAPP2313632338 FEDERAL F #002 @ 30-025-25077
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-25077] FEDERAL F #002

Location of Release Source*Please answer all the questions in this group.*

Site Name	FEDERAL F #002
Date Release Discovered	04/20/2023
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: Equipment Failure Valve Produced Water Released: 5 BBL Recovered: 1 BBL Lost: 4 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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, Page 2

Action 295852

QUESTIONS (continued)

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID:	329326
	Action Number:	295852
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as 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	We are currently scheduling a backhoe and other equipment to clean up the downslope discoloration and replace with fresh caliche.

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: 12/18/2023
--	--

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QUESTIONS, Page 3

Action 295852

QUESTIONS (continued)

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 295852
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
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	Greater than 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	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	7860
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	6400
GRO+DRO (EPA SW-846 Method 8015M)	4500
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	11/08/2023
On what date will (or did) the final sampling or liner inspection occur	12/01/2023
On what date will (or was) the remediation complete(d)	12/12/2023
What is the estimated surface area (in square feet) that will be reclaimed	1000
What is the estimated volume (in cubic yards) that will be reclaimed	130
What is the estimated surface area (in square feet) that will be remediated	1000
What is the estimated volume (in cubic yards) that will be remediated	130

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

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

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QUESTIONS, Page 4

Action 295852

QUESTIONS (continued)

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID:	329326
	Action Number:	295852
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Remediation Plan (continued)**

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

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

(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	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	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Alexis Bolanos Title: Production & Regulatory Analyst Email: alex@faenergyus.com Date: 12/18/2023
--	--

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

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QUESTIONS, Page 5

Action 295852

QUESTIONS (continued)

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 295852
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

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Action 295852

QUESTIONS (continued)

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID:	329326
	Action Number:	295852
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	295419
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/01/2023
What was the (estimated) number of samples that were to be gathered	8
What was the sampling surface area in square feet	1000

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	1000
What was the total volume (cubic yards) remediated	130
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	1000
What was the total volume (in cubic yards) reclaimed	130
Summarize any additional remediation activities not included by answers (above)	Remediation activities were conducted in accordance with applicable NMOCD Regulations. Soil affected above the NMOCD Closure Criteria has been excavated and hauled to an NMOCD approved facility for disposal. Laboratory analytical results from composite confirmation samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria.

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: 12/18/2023
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Action 295852

QUESTIONS (continued)

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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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 295852

CONDITIONS

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	Action Number: 295852
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CONDITIONS

Created By	Condition	Condition Date
nvelez	None	3/18/2024