

Spill Volume(Bbls) Calculator		
<i>Inputs in blue, Outputs in red</i>		
Length(Ft)	Width(Ft)	Depth(In)
<u>25.000</u>	<u>20.000</u>	<u>0.500</u>
Cubic Feet Impacted		<u>20.833</u>
Barrels		<u>3.71</u>
Soil Type		Lined Containment
Bbls Assuming 100% Saturation		<u>3.71</u>
Saturation	Fluid present with shovel/backhoe	
Estimated Barrels Released		3.80000

Instructions
1. Input spill measurements below. Length and width need to be input in feet and depth in inches.
2. Select a soil type from the drop down menu.
3. Select a saturation level from the drop down menu.
(For data gathering instructions see appendix tab)

Measurements	
Length (ft)	25
Width (ft)	20
Depth (in)	0.500









Delineation Summary and Closure Request

**Spur Energy Partners
Tumak Federal #3 Battery
Eddy County, New Mexico
Unit Letter "M", Section 14, Township 17 South, Range 28 East
Latitude 32.827574 North, Longitude 104.154896 West
NMOCD Incident # nAPP2321441318**

Prepared For:

Spur Energy Partners
104 S. Pecos St.
Midland, TX 79701

Prepared By:

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

August 2024

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 *Delineation 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 M (SW/SW), Section 14, Township 17 South, Range 28 East, approximately fourteen miles east of Artesia, in Eddy County, New Mexico. The location is on Bureau of Land Management 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 within a metal containment lined with poly liner; Latitude 32.827574 North, Longitude 104.154896 West. The Initial NMOCD Form C-141 indicated that on August 1, 2023 approximately 4 bbls of produced water was released due to a fire caused by lightning striking a tank battery. The fire was extinguished and all fluid was consumed by the fire. All fluid outside the containment area was a result of the water used by the fire department to extinguish the fire. The tank struck by lightning, and all damaged process equipment, was removed from the battery and the liner was repaired.

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 Gypsum Karst designated area. Karst and Wetland Maps are provided as Attachment I. Depth to groundwater information is provided as Attachment IV and the results are depicted on Figures 2 & 3.

No water wells were located within a half mile of the release area. However, as the fire occurred within a Gypsum Karst designated area, the site was delineated according to the strictest NMOCD Closure Criteria Utilizing this information, the NMOCD Closure Criteria for the Site is depicted in the table below.

Depth to Groundwater	Constituent	Method	Limit
<50'	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	N/A
	BTEX	EPA SW-846 Methods 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Methods 8021B or 8260B	10 mg/kg



Delineation Activities:

On August 11, 2023, Hungry Horse personnel conducted an initial site assessment consisting of photographing and mapping the affected area. On August 15 and 18, 2023, Hungry Horse personnel delineated the area affected by the fire. One sample location was located within the containment area where the burned tank was located. Three sample locations were within the area outside the burned containment. During delineation, 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. In addition, hand augered test 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 test 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 V, twenty samples were collected from the affected area and sent to the lab for analysis of BTEX, TPH, and chloride. Laboratory analytical data indicated contaminant concentrations were below the strictest NMOCD Closure Criteria in each of the submitted samples.

On August 13, 2024, Spur Energy Partners contracted Hungry Horse, LLC to perform a liner inspection of the repaired containment liner and closure sampling of the affected area outside of containment. On August 14, 2024, Hungry Horse, LLC notified NMOCD that closure samples would be collected on August 19, 2024. Correspondence is provided as Attachment II.

On August 19, 2024, thirteen composite confirmation soil samples were collected from the surface of the affected area outside the containment, with each sample representing no more than 200 square feet. Soil samples FL1 through FL13, 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.

A Delineation Sample Map and Closure Sample Map are provided as Figure 4 and Figure 5, respectively. Site Photographs are included as Attachment III. 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:

Delineation activities were conducted in accordance with applicable NMOCD Regulations. Based upon the reported volume lost from the fire and laboratory analytical data indicating contaminant concentrations are below the strictest NMOCD Closure Criteria in each of the submitted samples, no remediation activities were required in the affected area outside the burned containment.



Liner Inspection:

On August 14, 2024, Hungry Horse notified NMOCD that a liner inspection would be conducted on August 19, 2024. Correspondence is provided as Attachment II.

On August 19, 2024, Hungry Horse personnel arrived on location to inspect the liner. The liner and metal containment were thoroughly inspected from edge to edge, as well as around the tanks and process equipment installed on the liner itself. Site Photographs are provided as Attachment III. The liner was found to be in place, intact, with no visible breaks or tears. There was no evidence of the release escaping the metal containment area. A completed Liner Inspection Form is attached as Attachment V.

Closure Request:

Delineation activities, liner inspection, and closure sampling were conducted in accordance with applicable NMOCD Regulations. Laboratory analytical results from delineation samples and composite confirmation samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria.

Based on laboratory analytical results, Spur Energy Partners respectfully requests closure of the Tumak Federal #3 Battery location, nAPP2321441318.

Limitations:

Hungry Horse, LLC, has prepared this *Delineation 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:

Spur Energy Partners

104 S. Pecos St.
Midland, TX 79701

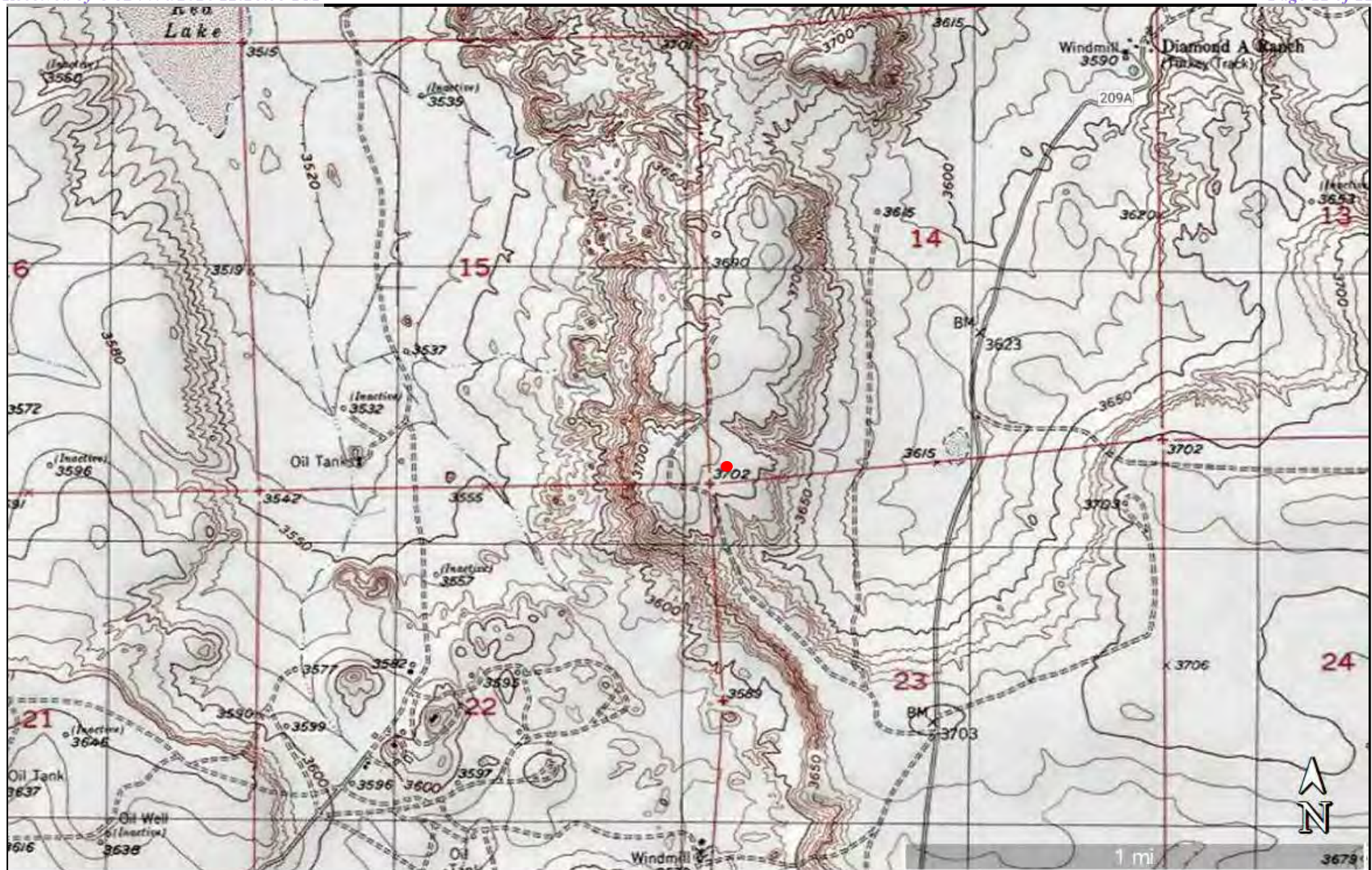
New Mexico Energy, Minerals and Natural Resources Department

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

New Mexico Bureau of Land Management

620 E. Greene St.
Carlsbad, NM 88220

Figures

**Figure 1**

Topographic Map
 Spur Energy Partners
 Tumak Federal #3 Battery
 GPS: 32.827574, -104.154896
 Eddy County

Legend:

- Tumak Federal #3 Battery Location

Drafted: bw
 Checked: dd
 Date: 8/14/23



**Figure 2**

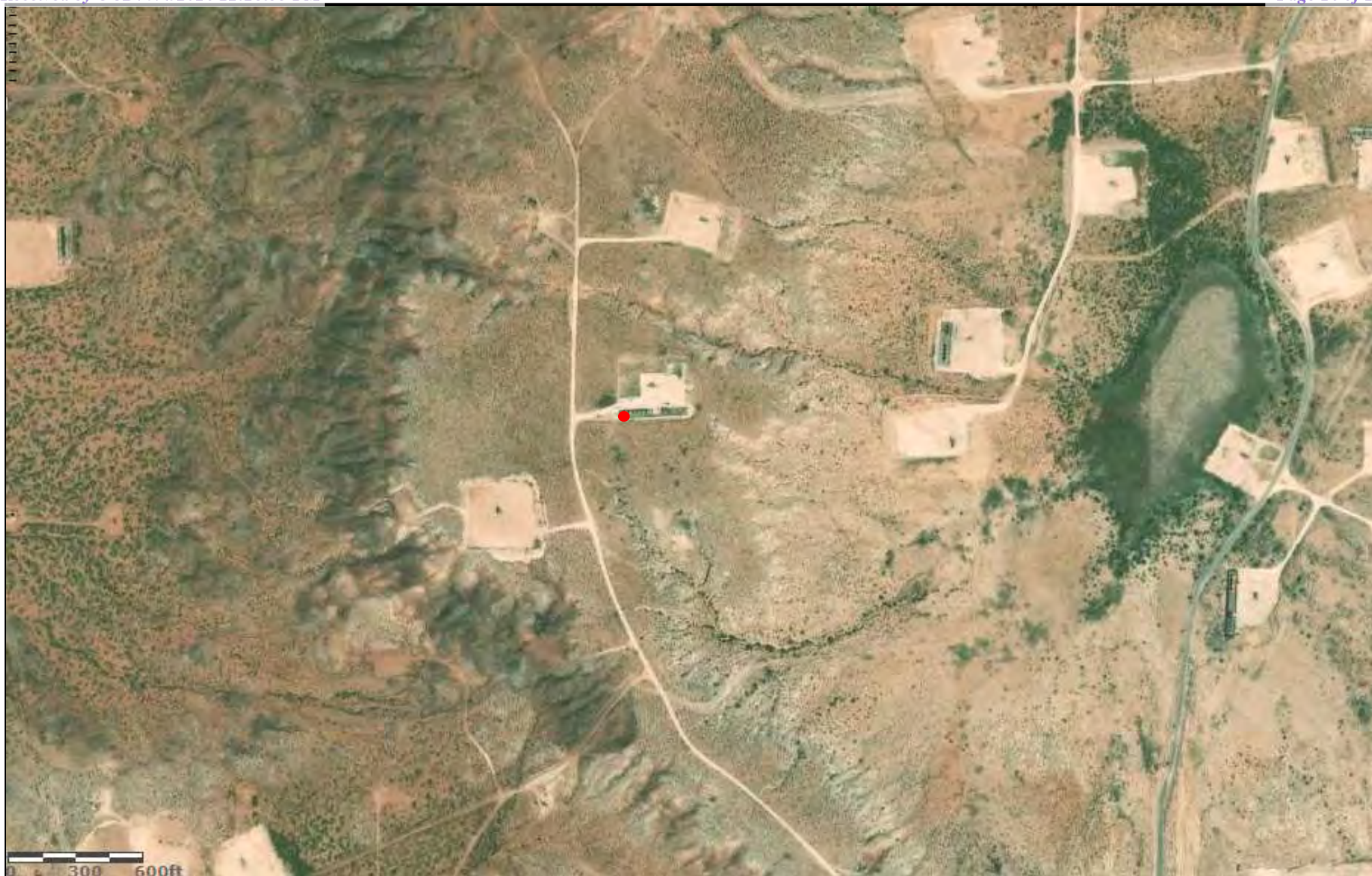
OSE POD Locations Map
Spur Energy Partners
Tumak Federal #3 Battery
GPS: 32.827574, -104.154896
Eddy County

Legend:

- Tumak Federal #3 Battery Location

Drafted: bw
Checked: dd
Date: 8/14/23



**Figure 3**

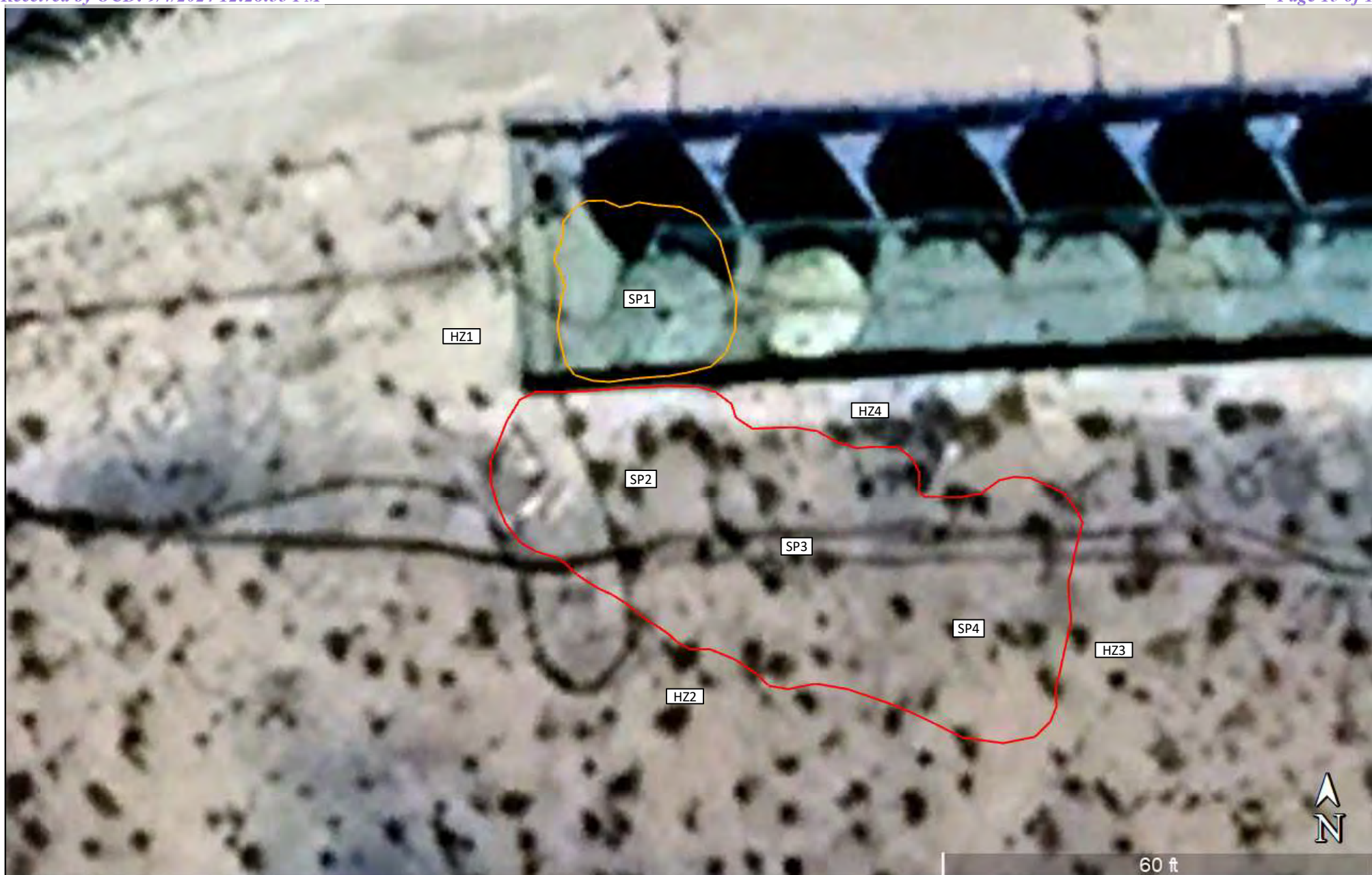
USGS Well Locations Map
Spur Energy Partners
Tumak Federal #3 Battery
GPS: 32.827574, -104.154896
Eddy County

Legend:

● Tumak Federal #3 Battery Location

Drafted: bw
Checked: dd
Date: 8/14/23



**Figure 4**

Delineation Sample Map
Spur Energy Partners
Tumak Federal #3 Battery
GPS: 32.827574, -104.154896
Eddy County

Legend:

- Approximate area of tank battery fire
- Area affected from extinguishing tank battery fire
- SP1 Delineation Sample Location

Drafted: dd
Checked: bw
Date: 8/14/23



**Figure 5**

Closure Sample Map
 Spur Energy Partners
 Tumak Federal #3 Battery
 GPS: 32.827574, -104.154896
 Eddy County

Legend:

- Area of liner inspection; area repaired after tank battery fire
- Composite Confirmation Sample 200 Square Foot Area
- FL1 Composite Confirmation Sample Location

Drafted: dd
 Checked: bw
 Date: 5/18/24



Tables

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
Spur Energy Partners
Tumak Federal #3 Battery
NMOCD Ref. #: nAPP2321441318

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	8/15/23	Surf	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
	8/15/23	1	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
	8/18/23	4	In-Situ	ND	ND	ND	ND	ND	ND	ND	346
SP2	8/15/23	Surf	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
	8/15/23	1	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
	8/18/23	4	In-Situ	ND	ND	ND	ND	ND	ND	ND	59.0
SP3	8/15/23	Surf	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
	8/15/23	1	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
	8/18/23	4	In-Situ	ND	ND	ND	ND	ND	ND	ND	283
SP4	8/15/23	Surf	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
	8/15/23	1	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
	8/18/23	4	In-Situ	ND	ND	ND	ND	ND	ND	ND	78.6
HZ1	8/15/23	Surf	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
	8/15/23	1	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
HZ2	8/15/23	Surf	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
	8/15/23	1	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
HZ3	8/15/23	Surf	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
	8/15/23	1	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
HZ4	8/15/23	Surf	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
	8/15/23	1	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL1	8/19/24	Surf	In-Situ	ND	ND	ND	ND	ND	ND	ND	223
FL2	8/19/24	Surf	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL3	8/19/24	Surf	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL4	8/19/24	Surf	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL5	8/19/24	Surf	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL6	8/19/24	Surf	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL7	8/19/24	Surf	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL8	8/19/24	Surf	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL9	8/19/24	Surf	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL10	8/19/24	Surf	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL11	8/19/24	Surf	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL12	8/19/24	Surf	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL13	8/19/24	Surf	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
NMOCD Closure Criteria				10	50	-	-	N/A	-	100	600

NOTES:

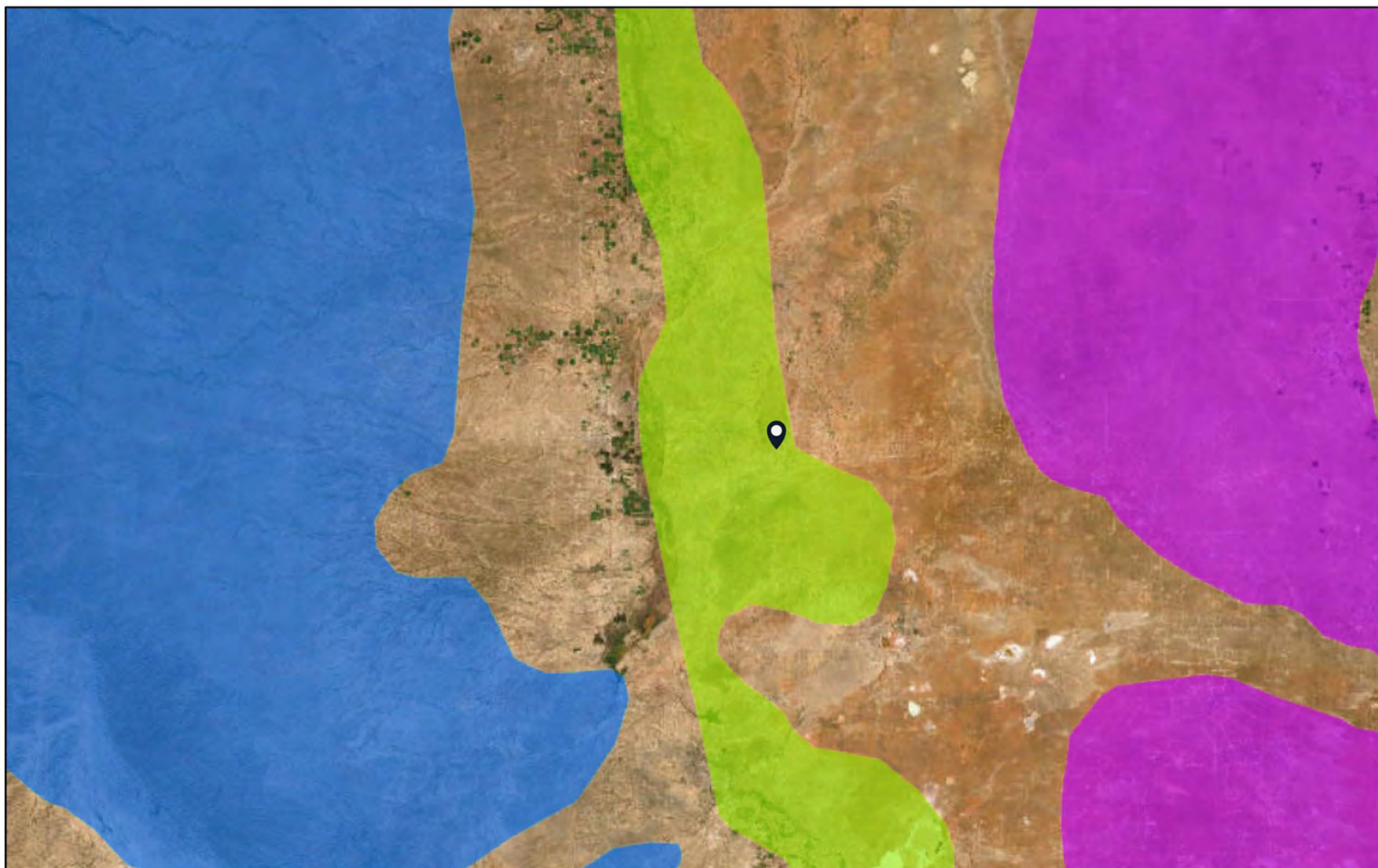
- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Attachment I

Karst and Wetland Maps

Tumak Federal #3 Battery



8/21/2023

Karst Type

Carbonate

Erosional

Gypsum

Volcanic

World Imagery

Low Resolution 15m Imagery

High Resolution 60cm Imagery

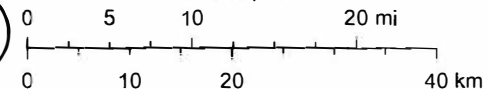
High Resolution 30cm Imagery

Citations

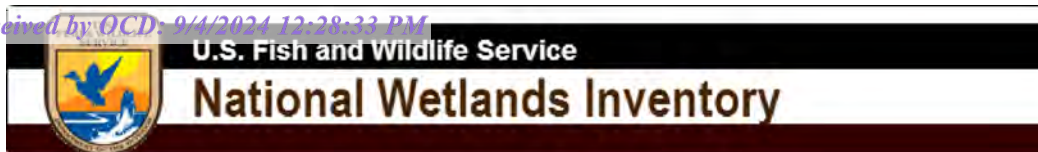
150m Resolution Metadata



1:879,206



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



Tumak Federal #3 Battery



August 21, 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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 373767

QUESTIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 373767
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2321441318
Incident Name	NAPP2321441318 TUMAK FEDERAL 3 BATTERY @ 0
Incident Type	Fire
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	TUMAK FEDERAL 3 BATTERY
Date Release Discovered	08/01/2023
Surface Owner	Federal

Liner Inspection Event Information	
Please answer all the questions in this group.	
What is the liner inspection surface area in square feet	5,000
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	08/19/2024
Time liner inspection will commence	08:00 AM
Please provide any information necessary for observers to liner inspection	Jerry Heidelberg 575-390-3639
Please provide any information necessary for navigation to liner inspection site	32.827571, -104.154901

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

CONDITIONS

Action 373767

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 373767
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
hungry horse	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	8/14/2024

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 373775

QUESTIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 373775
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2321441318
Incident Name	NAPP2321441318 TUMAK FEDERAL 3 BATTERY @ 0
Incident Type	Fire
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	TUMAK FEDERAL 3 BATTERY
Date Release Discovered	08/01/2023
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	2,600
What is the estimated number of samples that will be gathered	13
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/19/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jerry Heidelberg 575-390-3639
Please provide any information necessary for navigation to sampling site	32.827571, -104.154901

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

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1000 Rio Brazos Rd., Aztec, NM 87410
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1220 S. St Francis Dr., Santa Fe, NM 87505
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State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

CONDITIONS

Action 373775

CONDITIONS



Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 373775
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

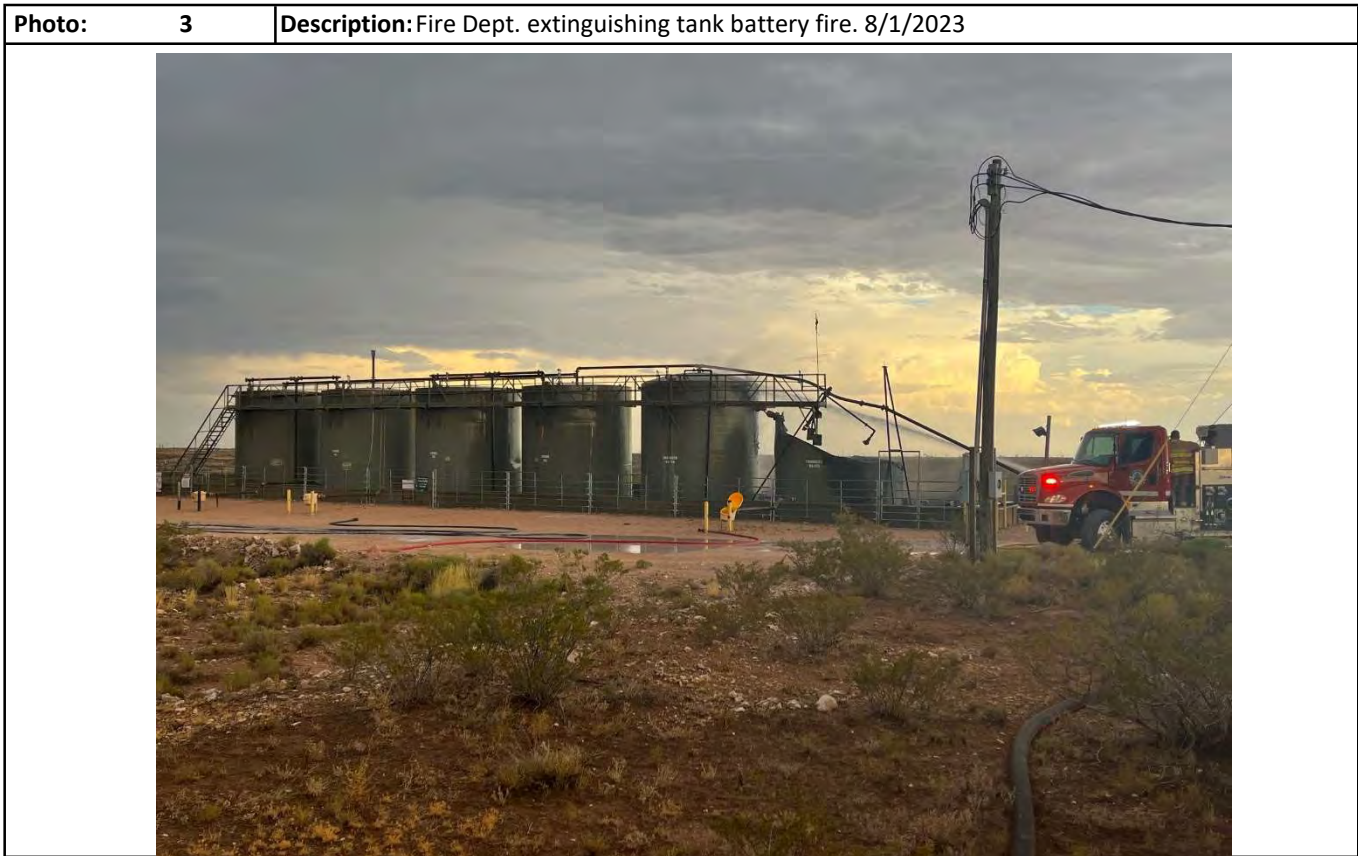
Created By	Condition	Condition Date
hungry horse	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/14/2024

Attachment III Site Photographs

Photographs

Photo:	1	Description: Fire Dept. extinguishing tank battery fire. 8/1/2023
		
Photo:	2	Description: Fire Dept. extinguishing tank battery fire. 8/1/2023
		

Photographs



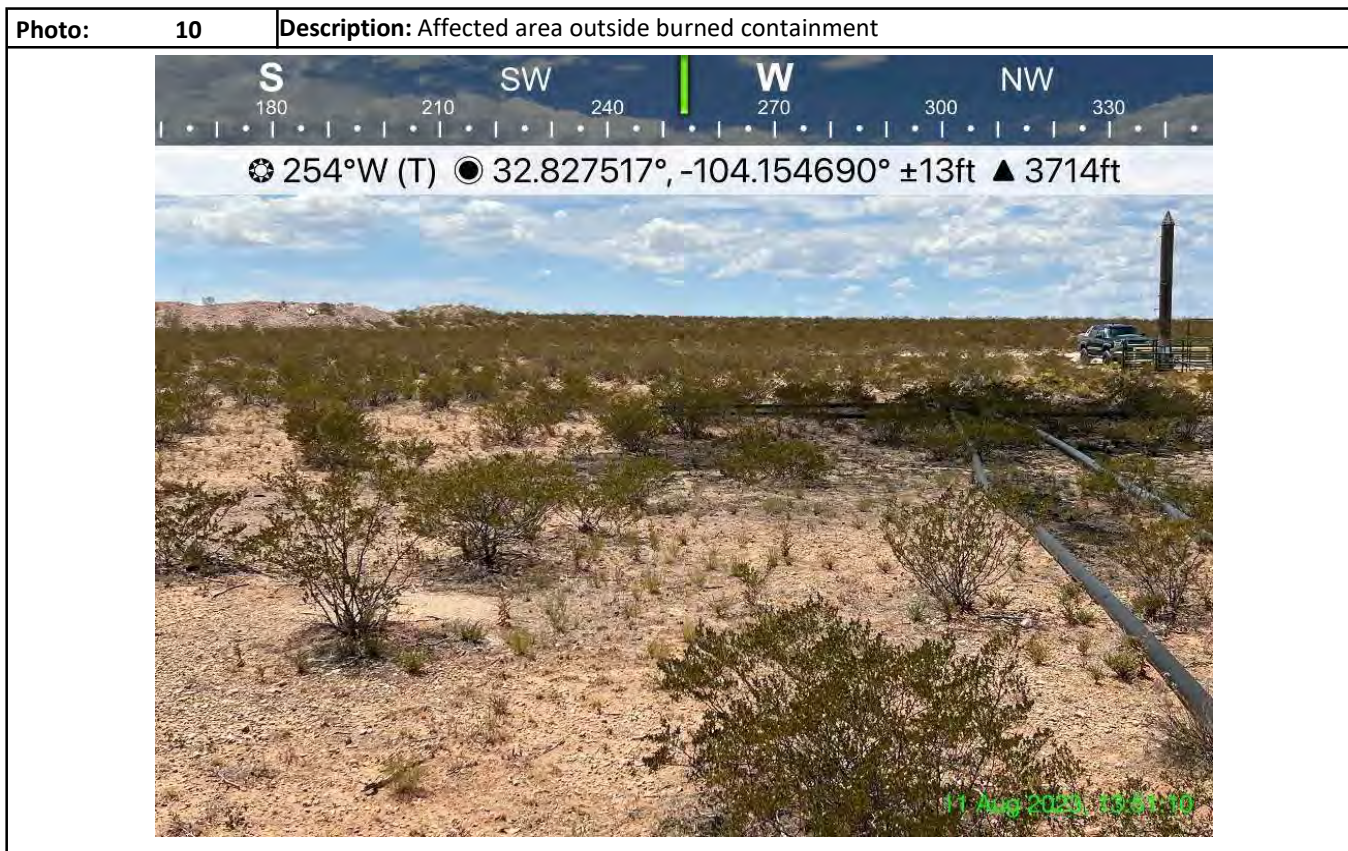
Photographs



Photographs



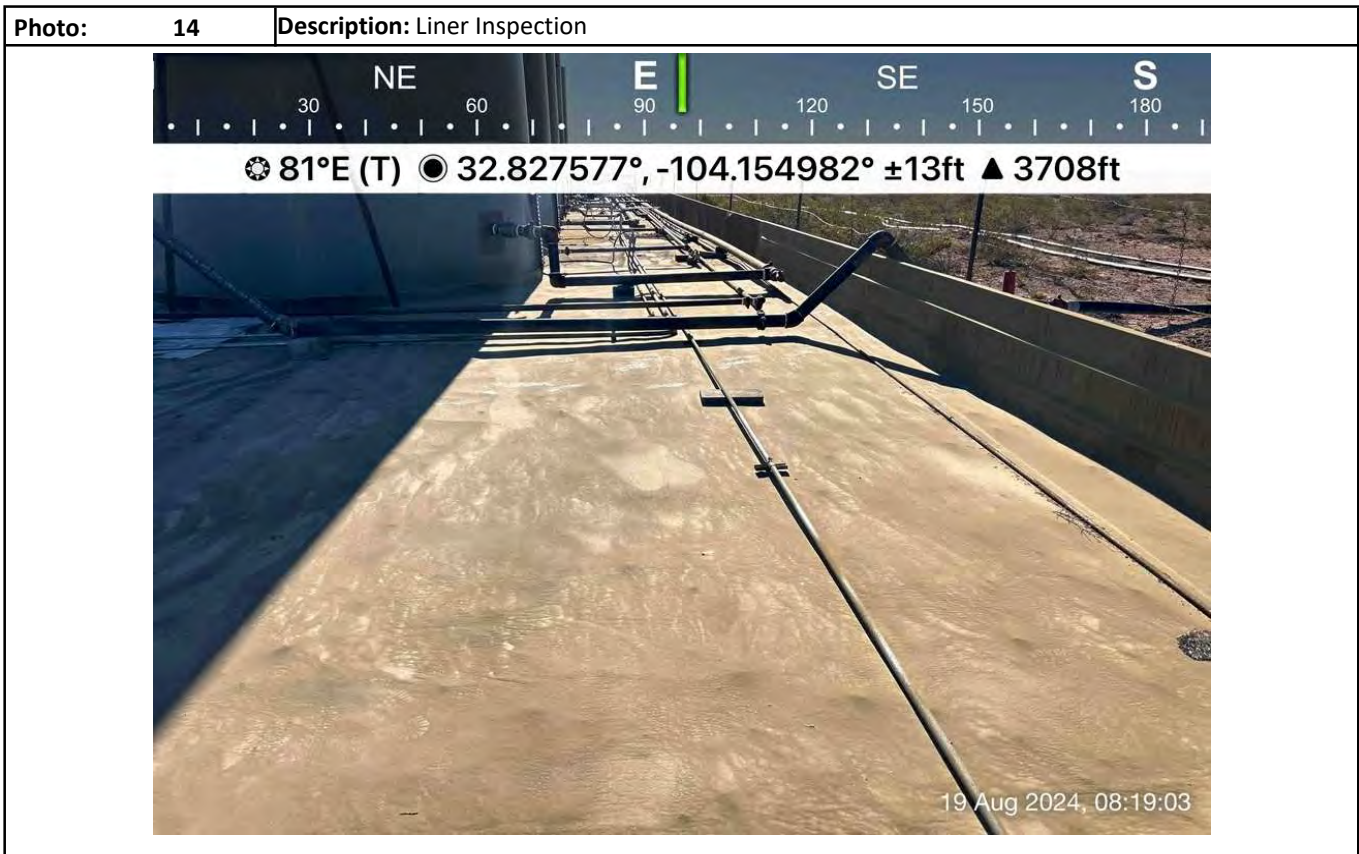
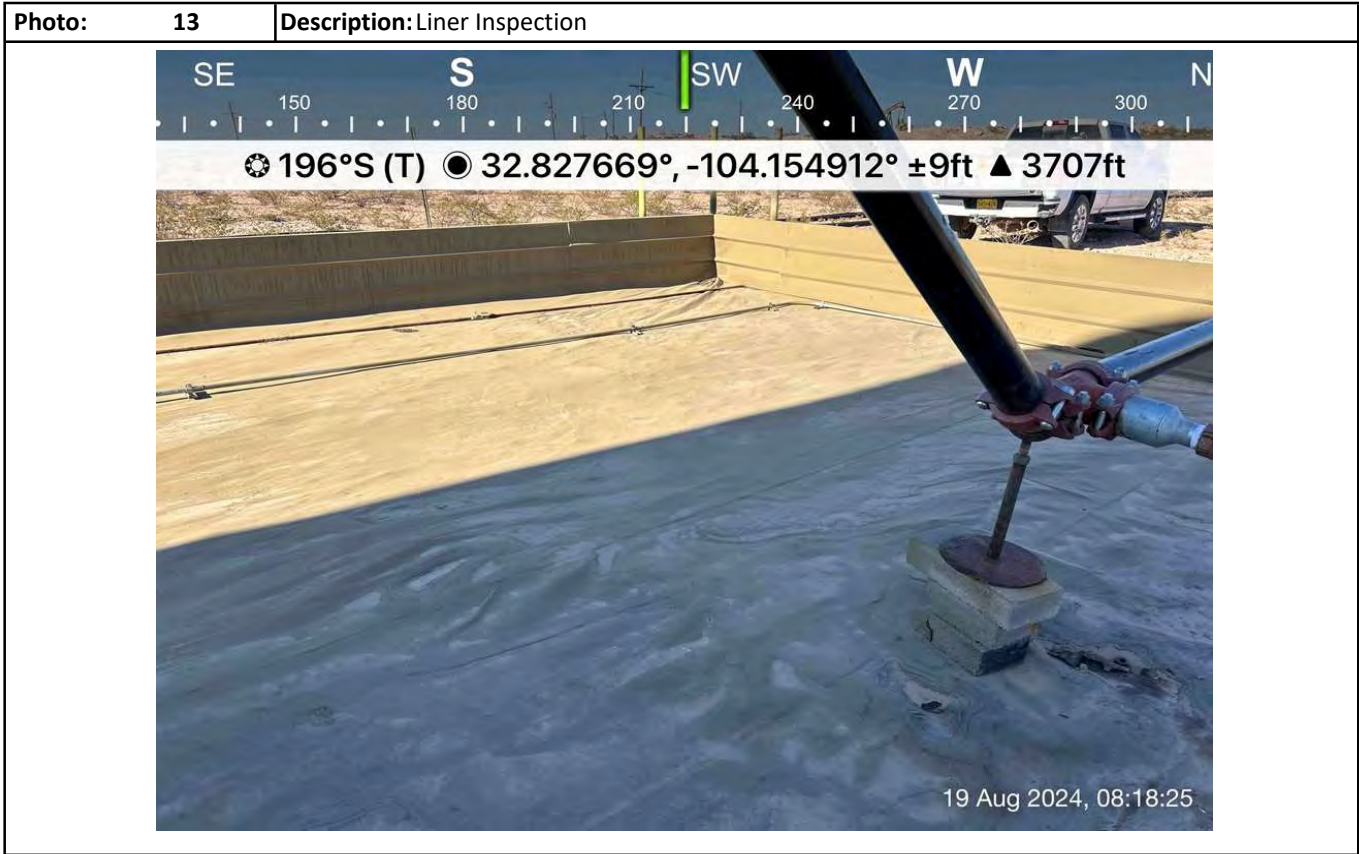
Photographs



Photographs



Photographs



Attachment IV

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): 579100.48 **Northing (Y):** 3632488.34 **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.

8/18/23 6:20 AM

WELLS WITH WELL LOG INFORMATION

Attachment V

Liner Inspection Report and Field Data

Hungry Horse, LLC

Sample Log

Date: 12-15-2023Project: Tumak Federal #3 BatteryLatitude: 32.827574Longitude: -104.154896Sampler: Jerry Heidelberg

Sample ID	Depth	PID/Odor	Chloride	GPS
HZ 1	Surf		2.8@ 79X4 = 316	
HZ 1	1'		2.0@ 47X4 = 188	
HZ 2	Surf		3.4@ 111X4 = 444	
HZ 2	1'		3.0@ 89X4 =	
HZ 3	Surf		3.4@ 111X4 = 444	
HZ 3	1'		2.4@ 62X4 = 248	
HZ 4	Surf		2.6@ 70X4 = 280	
HZ 4	1'		3.0@ 89X4 = 356	
SP 1	Surf		2.8@ 79X4 = 316	
SP 1	1'		2.8@ 79X4 = 316	
SP 2	Surf		4.8@ 208X4 = 832	
SP 2	1'		2.0@ 47X4 = 188	
SP 3	Surf		3.2@ 99X4 = 396	
SP 3	1'		2.8@ 79X4 = 316	
SP 4	Surf		2.8@ 79X4 = 316	
SP 4	1'		2.6@ 70X4 = 280	

Sample Point = SP1 @ ## etc

Floor = FL1 etc

Sidewall = SW1 etc

Horizontal = HZ1 etc

Refusal = SP1 @ 4'-R

GPS Sample Points, Center of Comp Areas

Test Trench = TT1 @ ##

Resamples = SP1b @ 5' or SW #1b

Stockpile = Stockpile #1

Liner Inspection Form



Client Spur

Site Name Tumak Federal #3 Battery

Lat/Long 32.827574, -104.154896

Release Date 01-Aug-23

Incident Number nAPP2321441318

NMOCD Notified 14-Aug-24

Inspection Date 08-19-2024

Observations	Yes	No	Comments
Is the liner present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is the liner torn?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are there visible holes in the liner?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is the liner retaining any liquids?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Does it appear the liner had the ability to contain the leak?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Type of liner: Earthen with liner Earthen no liner

 Metal with Poly Lining Metal with Spray Epoxy Lining

Other: _____

Other concerns or observations:

Inspector Name Jerry Heidelberg

Inspector Signature

Jerry Heidelberg

Attachment VI

Laboratory Analytical Reports

Report to:
Bradley Wells



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Spur Energy Partners

Project Name: Tumak Federal #3 Battery

Work Order: E308129

Job Number: 21068-0001

Received: 8/17/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/23/23

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Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
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Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/23/23

Bradley Wells
PO Box 1058
Houston, TX 77279



Project Name: Tumak Federal #3 Battery
Workorder: E308129
Date Received: 8/17/2023 8:00:00AM

Bradley Wells,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/17/2023 8:00:00AM, under the Project Name: Tumak Federal #3 Battery.

The analytical test results summarized in this report with the Project Name: Tumak Federal #3 Battery apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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Sample Summary

Spur Energy Partners	Project Name:	Tumak Federal #3 Battery	Reported: 08/23/23 09:18
PO Box 1058	Project Number:	21068-0001	
Houston TX, 77279	Project Manager:	Bradley Wells	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1 Surf	E308129-01A	Soil	08/15/23	08/17/23	Glass Jar, 4 oz.
SP1 1'	E308129-02A	Soil	08/15/23	08/17/23	Glass Jar, 4 oz.
SP2 Surf	E308129-03A	Soil	08/15/23	08/17/23	Glass Jar, 4 oz.
SP2 1'	E308129-04A	Soil	08/15/23	08/17/23	Glass Jar, 4 oz.
SP3 Surf	E308129-05A	Soil	08/15/23	08/17/23	Glass Jar, 4 oz.
SP3 1'	E308129-06A	Soil	08/15/23	08/17/23	Glass Jar, 4 oz.
SP4 Surf	E308129-07A	Soil	08/15/23	08/17/23	Glass Jar, 4 oz.
SP4 1'	E308129-08A	Soil	08/15/23	08/17/23	Glass Jar, 4 oz.
HZ1 Surf	E308129-09A	Soil	08/15/23	08/17/23	Glass Jar, 4 oz.
HZ1 1'	E308129-10A	Soil	08/15/23	08/17/23	Glass Jar, 4 oz.
HZ2 Surf	E308129-11A	Soil	08/15/23	08/17/23	Glass Jar, 4 oz.
HZ2 1'	E308129-12A	Soil	08/15/23	08/17/23	Glass Jar, 4 oz.
HZ3 Surf	E308129-13A	Soil	08/15/23	08/17/23	Glass Jar, 4 oz.
HZ3 1'	E308129-14A	Soil	08/15/23	08/17/23	Glass Jar, 4 oz.
HZ4 Surf	E308129-15A	Soil	08/15/23	08/17/23	Glass Jar, 4 oz.
HZ4 1'	E308129-16A	Soil	08/15/23	08/17/23	Glass Jar, 4 oz.



Sample Data

Spur Energy Partners PO Box 1058 Houston TX, 77279	Project Name: Tumak Federal #3 Battery Project Number: 21068-0001 Project Manager: Bradley Wells	Reported: 8/23/2023 9:18:20AM
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SP1 Surf

E308129-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2333058	
Benzene	ND	0.0250	1	08/17/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/18/23	
Toluene	ND	0.0250	1	08/17/23	08/18/23	
o-Xylene	ND	0.0250	1	08/17/23	08/18/23	
p,m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/17/23	08/18/23	
Surrogate: Bromofluorobenzene	102 %	70-130		08/17/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		08/17/23	08/18/23	
Surrogate: Toluene-d8	102 %	70-130		08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2333058	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
Surrogate: Bromofluorobenzene	102 %	70-130		08/17/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		08/17/23	08/18/23	
Surrogate: Toluene-d8	102 %	70-130		08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2333060	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/18/23	
Surrogate: n-Nonane	88.0 %	50-200		08/18/23	08/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2333065	
Chloride	ND	20.0	1	08/17/23	08/20/23	



Sample Data

Spur Energy Partners PO Box 1058 Houston TX, 77279	Project Name: Tumak Federal #3 Battery Project Number: 21068-0001 Project Manager: Bradley Wells	Reported: 8/23/2023 9:18:20AM
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SP1 1'
E308129-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Benzene	ND	0.0250	1	08/17/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/18/23	
Toluene	ND	0.0250	1	08/17/23	08/18/23	
o-Xylene	ND	0.0250	1	08/17/23	08/18/23	
p,m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/17/23	08/18/23	
Surrogate: Bromofluorobenzene		101 %	70-130	08/17/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	08/17/23	08/18/23	
Surrogate: Toluene-d8		103 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
Surrogate: Bromofluorobenzene		101 %	70-130	08/17/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	08/17/23	08/18/23	
Surrogate: Toluene-d8		103 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2333060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/18/23	
Surrogate: n-Nonane		87.9 %	50-200	08/18/23	08/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333065
Chloride	ND	20.0	1	08/17/23	08/20/23	



Sample Data

Spur Energy Partners PO Box 1058 Houston TX, 77279	Project Name: Tumak Federal #3 Battery Project Number: 21068-0001 Project Manager: Bradley Wells	Reported: 8/23/2023 9:18:20AM
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SP2 Surf

E308129-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Benzene	ND	0.0250	1	08/17/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/18/23	
Toluene	ND	0.0250	1	08/17/23	08/18/23	
o-Xylene	ND	0.0250	1	08/17/23	08/18/23	
p,m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/17/23	08/18/23	
Surrogate: Bromofluorobenzene		102 %	70-130	08/17/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130	08/17/23	08/18/23	
Surrogate: Toluene-d8		102 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
Surrogate: Bromofluorobenzene		102 %	70-130	08/17/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130	08/17/23	08/18/23	
Surrogate: Toluene-d8		102 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2333060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/18/23	
Surrogate: n-Nonane		86.1 %	50-200	08/18/23	08/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333065
Chloride	ND	20.0	1	08/17/23	08/20/23	



Sample Data

Spur Energy Partners
PO Box 1058
Houston TX, 77279

Project Name: Tumak Federal #3 Battery
Project Number: 21068-0001
Project Manager: Bradley Wells

Reported:
8/23/2023 9:18:20AM

SP2 1'

E308129-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Benzene	ND	0.0250	1	08/17/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/18/23	
Toluene	ND	0.0250	1	08/17/23	08/18/23	
o-Xylene	ND	0.0250	1	08/17/23	08/18/23	
p,m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/17/23	08/18/23	
Surrogate: Bromofluorobenzene		101 %	70-130	08/17/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	08/17/23	08/18/23	
Surrogate: Toluene-d8		102 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
Surrogate: Bromofluorobenzene		101 %	70-130	08/17/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	08/17/23	08/18/23	
Surrogate: Toluene-d8		102 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2333060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/18/23	
Surrogate: n-Nonane		88.2 %	50-200	08/18/23	08/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333065
Chloride	ND	20.0	1	08/17/23	08/20/23	



Sample Data

Spur Energy Partners
PO Box 1058
Houston TX, 77279

Project Name: Tumak Federal #3 Battery
Project Number: 21068-0001
Project Manager: Bradley Wells

Reported:
8/23/2023 9:18:20AM

SP3 Surf
E308129-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Benzene	ND	0.0250	1	08/17/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/18/23	
Toluene	ND	0.0250	1	08/17/23	08/18/23	
o-Xylene	ND	0.0250	1	08/17/23	08/18/23	
p,m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/17/23	08/18/23	
Surrogate: Bromofluorobenzene	99.8 %	70-130		08/17/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130		08/17/23	08/18/23	
Surrogate: Toluene-d8	103 %	70-130		08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
Surrogate: Bromofluorobenzene	99.8 %	70-130		08/17/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130		08/17/23	08/18/23	
Surrogate: Toluene-d8	103 %	70-130		08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2333060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/18/23	
Surrogate: n-Nonane	85.4 %	50-200		08/18/23	08/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333065
Chloride	ND	20.0	1	08/17/23	08/20/23	



Sample Data

Spur Energy Partners PO Box 1058 Houston TX, 77279	Project Name: Tumak Federal #3 Battery Project Number: 21068-0001 Project Manager: Bradley Wells	Reported: 8/23/2023 9:18:20AM
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SP3 1'

E308129-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Benzene	ND	0.0250	1	08/17/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/18/23	
Toluene	ND	0.0250	1	08/17/23	08/18/23	
o-Xylene	ND	0.0250	1	08/17/23	08/18/23	
p,m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/17/23	08/18/23	
Surrogate: Bromofluorobenzene		100 %	70-130	08/17/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	08/17/23	08/18/23	
Surrogate: Toluene-d8		101 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
Surrogate: Bromofluorobenzene		100 %	70-130	08/17/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	08/17/23	08/18/23	
Surrogate: Toluene-d8		101 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2333060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/18/23	
Surrogate: n-Nonane		88.5 %	50-200	08/18/23	08/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333065
Chloride	ND	20.0	1	08/17/23	08/20/23	



Sample Data

Spur Energy Partners PO Box 1058 Houston TX, 77279	Project Name: Tumak Federal #3 Battery Project Number: 21068-0001 Project Manager: Bradley Wells	Reported: 8/23/2023 9:18:20AM
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SP4 Surf

E308129-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Benzene	ND	0.0250	1	08/17/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/18/23	
Toluene	ND	0.0250	1	08/17/23	08/18/23	
o-Xylene	ND	0.0250	1	08/17/23	08/18/23	
p,m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/17/23	08/18/23	
Surrogate: Bromofluorobenzene		102 %	70-130	08/17/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	08/17/23	08/18/23	
Surrogate: Toluene-d8		103 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
Surrogate: Bromofluorobenzene		102 %	70-130	08/17/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	08/17/23	08/18/23	
Surrogate: Toluene-d8		103 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2333060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/18/23	
Surrogate: n-Nonane		86.0 %	50-200	08/18/23	08/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333065
Chloride	ND	20.0	1	08/17/23	08/20/23	



Sample Data

Spur Energy Partners PO Box 1058 Houston TX, 77279	Project Name: Tumak Federal #3 Battery Project Number: 21068-0001 Project Manager: Bradley Wells	Reported: 8/23/2023 9:18:20AM
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SP4 1'

E308129-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Benzene	ND	0.0250	1	08/17/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/18/23	
Toluene	ND	0.0250	1	08/17/23	08/18/23	
o-Xylene	ND	0.0250	1	08/17/23	08/18/23	
p,m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/17/23	08/18/23	
Surrogate: Bromofluorobenzene		101 %	70-130	08/17/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	08/17/23	08/18/23	
Surrogate: Toluene-d8		102 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
Surrogate: Bromofluorobenzene		101 %	70-130	08/17/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	08/17/23	08/18/23	
Surrogate: Toluene-d8		102 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2333060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/19/23	
Surrogate: n-Nonane		89.8 %	50-200	08/18/23	08/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333065
Chloride	ND	20.0	1	08/17/23	08/20/23	



Sample Data

Spur Energy Partners
PO Box 1058
Houston TX, 77279

Project Name: Tumak Federal #3 Battery
Project Number: 21068-0001
Project Manager: Bradley Wells

Reported:
8/23/2023 9:18:20AM

HZ1 Surf
E308129-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Benzene	ND	0.0250	1	08/17/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/18/23	
Toluene	ND	0.0250	1	08/17/23	08/18/23	
o-Xylene	ND	0.0250	1	08/17/23	08/18/23	
p,m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/17/23	08/18/23	
Surrogate: Bromofluorobenzene	99.4 %	70-130		08/17/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		08/17/23	08/18/23	
Surrogate: Toluene-d8	102 %	70-130		08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
Surrogate: Bromofluorobenzene	99.4 %	70-130		08/17/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		08/17/23	08/18/23	
Surrogate: Toluene-d8	102 %	70-130		08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2333060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/19/23	
Surrogate: n-Nonane	91.8 %	50-200		08/18/23	08/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333065
Chloride	ND	20.0	1	08/17/23	08/20/23	



Sample Data

Spur Energy Partners PO Box 1058 Houston TX, 77279	Project Name: Tumak Federal #3 Battery Project Number: 21068-0001 Project Manager: Bradley Wells	Reported: 8/23/2023 9:18:20AM
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HZ1 1'
E308129-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Benzene	ND	0.0250	1	08/17/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/18/23	
Toluene	ND	0.0250	1	08/17/23	08/18/23	
o-Xylene	ND	0.0250	1	08/17/23	08/18/23	
p,m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/17/23	08/18/23	
Surrogate: Bromofluorobenzene		101 %	70-130	08/17/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	08/17/23	08/18/23	
Surrogate: Toluene-d8		102 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
Surrogate: Bromofluorobenzene		101 %	70-130	08/17/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	08/17/23	08/18/23	
Surrogate: Toluene-d8		102 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2333060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/19/23	
Surrogate: n-Nonane		90.0 %	50-200	08/18/23	08/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333065
Chloride	ND	20.0	1	08/17/23	08/20/23	



Sample Data

Spur Energy Partners PO Box 1058 Houston TX, 77279	Project Name: Tumak Federal #3 Battery Project Number: 21068-0001 Project Manager: Bradley Wells	Reported: 8/23/2023 9:18:20AM
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HZ2 Surf

E308129-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Benzene	ND	0.0250	1	08/17/23	08/19/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/19/23	
Toluene	ND	0.0250	1	08/17/23	08/19/23	
o-Xylene	ND	0.0250	1	08/17/23	08/19/23	
p,m-Xylene	ND	0.0500	1	08/17/23	08/19/23	
Total Xylenes	ND	0.0250	1	08/17/23	08/19/23	
Surrogate: Bromofluorobenzene	99.6 %	70-130		08/17/23	08/19/23	
Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130		08/17/23	08/19/23	
Surrogate: Toluene-d8	102 %	70-130		08/17/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/19/23	
Surrogate: Bromofluorobenzene	99.6 %	70-130		08/17/23	08/19/23	
Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130		08/17/23	08/19/23	
Surrogate: Toluene-d8	102 %	70-130		08/17/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2333060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/19/23	
Surrogate: n-Nonane	89.1 %	50-200		08/18/23	08/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333065
Chloride	ND	20.0	1	08/17/23	08/20/23	



Sample Data

Spur Energy Partners PO Box 1058 Houston TX, 77279	Project Name: Tumak Federal #3 Battery Project Number: 21068-0001 Project Manager: Bradley Wells	Reported: 8/23/2023 9:18:20AM
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HZ2 1'
E308129-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Benzene	ND	0.0250	1	08/17/23	08/19/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/19/23	
Toluene	ND	0.0250	1	08/17/23	08/19/23	
o-Xylene	ND	0.0250	1	08/17/23	08/19/23	
p,m-Xylene	ND	0.0500	1	08/17/23	08/19/23	
Total Xylenes	ND	0.0250	1	08/17/23	08/19/23	
Surrogate: Bromofluorobenzene		101 %	70-130	08/17/23	08/19/23	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	08/17/23	08/19/23	
Surrogate: Toluene-d8		102 %	70-130	08/17/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/19/23	
Surrogate: Bromofluorobenzene		101 %	70-130	08/17/23	08/19/23	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	08/17/23	08/19/23	
Surrogate: Toluene-d8		102 %	70-130	08/17/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2333060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/19/23	
Surrogate: n-Nonane		90.4 %	50-200	08/18/23	08/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333065
Chloride	ND	20.0	1	08/17/23	08/20/23	



Sample Data

Spur Energy Partners
PO Box 1058
Houston TX, 77279

Project Name: Tumak Federal #3 Battery
Project Number: 21068-0001
Project Manager: Bradley Wells

Reported:
8/23/2023 9:18:20AM

HZ3 Surf

E308129-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Benzene	ND	0.0250	1	08/17/23	08/19/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/19/23	
Toluene	ND	0.0250	1	08/17/23	08/19/23	
o-Xylene	ND	0.0250	1	08/17/23	08/19/23	
p,m-Xylene	ND	0.0500	1	08/17/23	08/19/23	
Total Xylenes	ND	0.0250	1	08/17/23	08/19/23	
Surrogate: Bromofluorobenzene		101 %	70-130	08/17/23	08/19/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	08/17/23	08/19/23	
Surrogate: Toluene-d8		104 %	70-130	08/17/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/19/23	
Surrogate: Bromofluorobenzene		101 %	70-130	08/17/23	08/19/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	08/17/23	08/19/23	
Surrogate: Toluene-d8		104 %	70-130	08/17/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2333060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/19/23	
Surrogate: n-Nonane		91.9 %	50-200	08/18/23	08/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333065
Chloride	ND	20.0	1	08/17/23	08/20/23	



Sample Data

Spur Energy Partners
PO Box 1058
Houston TX, 77279

Project Name: Tumak Federal #3 Battery
Project Number: 21068-0001
Project Manager: Bradley Wells

Reported:
8/23/2023 9:18:20AM

HZ3 1'

E308129-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Benzene	ND	0.0250	1	08/17/23	08/19/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/19/23	
Toluene	ND	0.0250	1	08/17/23	08/19/23	
o-Xylene	ND	0.0250	1	08/17/23	08/19/23	
p,m-Xylene	ND	0.0500	1	08/17/23	08/19/23	
Total Xylenes	ND	0.0250	1	08/17/23	08/19/23	
Surrogate: Bromofluorobenzene		101 %	70-130	08/17/23	08/19/23	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	08/17/23	08/19/23	
Surrogate: Toluene-d8		103 %	70-130	08/17/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/19/23	
Surrogate: Bromofluorobenzene		101 %	70-130	08/17/23	08/19/23	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	08/17/23	08/19/23	
Surrogate: Toluene-d8		103 %	70-130	08/17/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2333060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/19/23	
Surrogate: n-Nonane		84.8 %	50-200	08/18/23	08/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333065
Chloride	ND	20.0	1	08/17/23	08/20/23	



Sample Data

Spur Energy Partners
PO Box 1058
Houston TX, 77279

Project Name: Tumak Federal #3 Battery
Project Number: 21068-0001
Project Manager: Bradley Wells

Reported:
8/23/2023 9:18:20AM

HZ4 Surf

E308129-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Benzene	ND	0.0250	1	08/17/23	08/19/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/19/23	
Toluene	ND	0.0250	1	08/17/23	08/19/23	
o-Xylene	ND	0.0250	1	08/17/23	08/19/23	
p,m-Xylene	ND	0.0500	1	08/17/23	08/19/23	
Total Xylenes	ND	0.0250	1	08/17/23	08/19/23	
Surrogate: Bromofluorobenzene		101 %	70-130	08/17/23	08/19/23	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	08/17/23	08/19/23	
Surrogate: Toluene-d8		102 %	70-130	08/17/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/19/23	
Surrogate: Bromofluorobenzene		101 %	70-130	08/17/23	08/19/23	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	08/17/23	08/19/23	
Surrogate: Toluene-d8		102 %	70-130	08/17/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2333060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/19/23	
Surrogate: n-Nonane		89.9 %	50-200	08/18/23	08/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333065
Chloride	ND	20.0	1	08/17/23	08/20/23	



Sample Data

Spur Energy Partners PO Box 1058 Houston TX, 77279	Project Name: Tumak Federal #3 Battery Project Number: 21068-0001 Project Manager: Bradley Wells	Reported: 8/23/2023 9:18:20AM
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HZ4 1'
E308129-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Benzene	ND	0.0250	1	08/17/23	08/19/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/19/23	
Toluene	ND	0.0250	1	08/17/23	08/19/23	
o-Xylene	ND	0.0250	1	08/17/23	08/19/23	
p,m-Xylene	ND	0.0500	1	08/17/23	08/19/23	
Total Xylenes	ND	0.0250	1	08/17/23	08/19/23	
Surrogate: Bromofluorobenzene	99.1 %	70-130		08/17/23	08/19/23	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		08/17/23	08/19/23	
Surrogate: Toluene-d8	101 %	70-130		08/17/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333058
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/19/23	
Surrogate: Bromofluorobenzene	99.1 %	70-130		08/17/23	08/19/23	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		08/17/23	08/19/23	
Surrogate: Toluene-d8	101 %	70-130		08/17/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2333060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/19/23	
Surrogate: n-Nonane	89.2 %	50-200		08/18/23	08/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333065
Chloride	ND	20.0	1	08/17/23	08/20/23	



QC Summary Data

Spur Energy Partners	Project Name:	Tumak Federal #3 Battery	Reported:
PO Box 1058	Project Number:	21068-0001	
Houston TX, 77279	Project Manager:	Bradley Wells	8/23/2023 9:18:20AM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2333058-BLK1) Prepared: 08/17/23 Analyzed: 08/18/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.497		0.500		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

LCS (2333058-BS1) Prepared: 08/17/23 Analyzed: 08/18/23

Benzene	2.58	0.0250	2.50		103	70-130			
Ethylbenzene	2.46	0.0250	2.50		98.6	70-130			
Toluene	2.55	0.0250	2.50		102	70-130			
o-Xylene	2.62	0.0250	2.50		105	70-130			
p,m-Xylene	5.14	0.0500	5.00		103	70-130			
Total Xylenes	7.77	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

Matrix Spike (2333058-MS1) Source: E308129-01 Prepared: 08/17/23 Analyzed: 08/18/23

Benzene	2.59	0.0250	2.50	ND	103	48-131			
Ethylbenzene	2.47	0.0250	2.50	ND	98.7	45-135			
Toluene	2.52	0.0250	2.50	ND	101	48-130			
o-Xylene	2.64	0.0250	2.50	ND	106	43-135			
p,m-Xylene	5.18	0.0500	5.00	ND	104	43-135			
Total Xylenes	7.82	0.0250	7.50	ND	104	43-135			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			

Matrix Spike Dup (2333058-MSD1) Source: E308129-01 Prepared: 08/17/23 Analyzed: 08/18/23

Benzene	2.59	0.0250	2.50	ND	103	48-131	0.0193	23	
Ethylbenzene	2.48	0.0250	2.50	ND	99.3	45-135	0.586	27	
Toluene	2.51	0.0250	2.50	ND	101	48-130	0.278	24	
o-Xylene	2.62	0.0250	2.50	ND	105	43-135	0.665	27	
p,m-Xylene	5.12	0.0500	5.00	ND	102	43-135	1.17	27	
Total Xylenes	7.74	0.0250	7.50	ND	103	43-135	1.00	27	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			



QC Summary Data

Spur Energy Partners	Project Name:	Tumak Federal #3 Battery	Reported:
PO Box 1058	Project Number:	21068-0001	
Houston TX, 77279	Project Manager:	Bradley Wells	8/23/2023 9:18:20AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2333058-BLK1) Prepared: 08/17/23 Analyzed: 08/18/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.497		0.500		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

LCS (2333058-BS2) Prepared: 08/17/23 Analyzed: 08/18/23

Gasoline Range Organics (C6-C10)	54.7	20.0	50.0		109	70-130			
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.4	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

Matrix Spike (2333058-MS2) Source: E308129-01 Prepared: 08/17/23 Analyzed: 08/18/23

Gasoline Range Organics (C6-C10)	58.1	20.0	50.0	ND	116	70-130			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.8	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

Matrix Spike Dup (2333058-MSD2) Source: E308129-01 Prepared: 08/17/23 Analyzed: 08/18/23

Gasoline Range Organics (C6-C10)	57.4	20.0	50.0	ND	115	70-130	1.14	20	
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			



QC Summary Data

Spur Energy Partners	Project Name:	Tumak Federal #3 Battery	Reported:
PO Box 1058	Project Number:	21068-0001	
Houston TX, 77279	Project Manager:	Bradley Wells	8/23/2023 9:18:20AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2333060-BLK1)					Prepared: 08/18/23 Analyzed: 08/18/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.7		50.0		91.5	50-200			

LCS (2333060-BS1)					Prepared: 08/18/23 Analyzed: 08/18/23				
Diesel Range Organics (C10-C28)	229	25.0	250		91.8	38-132			
Surrogate: n-Nonane	43.9		50.0		87.8	50-200			

Matrix Spike (2333060-MS1)					Source: E308129-04		Prepared: 08/18/23 Analyzed: 08/18/23		
Diesel Range Organics (C10-C28)	233	25.0	250	ND	93.0	38-132			
Surrogate: n-Nonane	40.9		50.0		81.7	50-200			

Matrix Spike Dup (2333060-MSD1)					Source: E308129-04		Prepared: 08/18/23 Analyzed: 08/18/23		
Diesel Range Organics (C10-C28)	234	25.0	250	ND	93.7	38-132	0.771	20	
Surrogate: n-Nonane	44.3		50.0		88.6	50-200			



QC Summary Data

Spur Energy Partners	Project Name:	Tumak Federal #3 Battery	Reported:
PO Box 1058	Project Number:	21068-0001	
Houston TX, 77279	Project Manager:	Bradley Wells	8/23/2023 9:18:20AM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2333065-BLK1)					Prepared: 08/17/23 Analyzed: 08/20/23				
Chloride	ND	20.0							
LCS (2333065-BS1)					Prepared: 08/17/23 Analyzed: 08/20/23				
Chloride	248	20.0	250		99.1	90-110			
Matrix Spike (2333065-MS1)					Source: E308129-01		Prepared: 08/17/23 Analyzed: 08/20/23		
Chloride	254	20.0	250	ND	101	80-120			
Matrix Spike Dup (2333065-MSD1)					Source: E308129-01		Prepared: 08/17/23 Analyzed: 08/20/23		
Chloride	253	20.0	250	ND	101	80-120	0.444	20	

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



Definitions and Notes

Spur Energy Partners	Project Name:	Tumak Federal #3 Battery	
PO Box 1058	Project Number:	21068-0001	Reported:
Houston TX, 77279	Project Manager:	Bradley Wells	08/23/23 09:18

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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

Client: Spur	Bill To	Lab Use Only		TAT				EPA Program		
Project: Tumak Federal #3 Battery		Attention: Kathy Purvis	Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
Project Manager: Bradley Wells		Address: 104 S Pecos St.	2E308129	21068-0001				X		
Address: 4024 Plains Hwy		City, State, Zip: Midland	Analysis and Method							RCRA
City, State, Zip: Lovington, NM 88260, NM, 88260		Phone: 575-441-8619	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX
Phone: 575 393-3386	Email: katherine.purvis@spurenergy.com	State								
Email: pm@hungry-horse.com		NM CO UT AZ TX								
Report due by:		X								

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	8/15/23	Soil	1	SP1	Surf	1							X		
	8/15/23	Soil	1	SP1	1'	2							X		
	8/15/23	Soil	1	SP2	Surf	3							X		
	8/15/23	Soil	1	SP2	1'	4							X		
	8/15/23	Soil	1	SP3	Surf	5							X		
	8/15/23	Soil	1	SP3	1'	6							X		
	8/15/23	Soil	1	SP4	Surf	7							X		
	8/15/23	Soil	1	SP4	1'	8							X		

Additional Instructions: Email results to: pm@hungry-horse.com
katherine.purvis@spurenergy.com

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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

Client: Spur		Bill To		Lab Use Only				TAT				EPA Program	
Project: Tumak Federal #3 Battery		Attention: Kathy Purvis		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Bradley Wells		Address: 104 S Pecos St.		E308129		21068-0001					X		
Address: 4024 Plains Hwy		City, State, Zip: Midland		Analysis and Method									
City, State, Zip: Lovington, NM 88260, NM, 88260		Phone: 575-441-8619											
Phone: 575 393-3386		Email: katherine.purvis@spurenergy.com											
Email: pm@hungry-horse.com													
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	8/15/23	Soil	1	HZ1	Surf	9							X		
	8/15/23	Soil	1	HZ1	1'	10							X		
	8/15/23	Soil	1	HZ2	Surf	11							X		
	8/15/23	Soil	1	HZ2	1'	12							X		
	8/15/23	Soil	1	HZ3	Surf	13							X		
	8/15/23	Soil	1	HZ3	1'	14							X		
	8/15/23	Soil	1	HZ4	Surf	15							X		
	8/15/23	Soil	1	HZ4	1'	16							X		

Additional Instructions: Email results to: pm@hungry-horse.com
katherine.purvis@spurenergy.com

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: 0 / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

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

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

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

Envirotech Analytical Laboratory

Printed: 8/17/2023 9:57:21AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Spur Energy Partners	Date Received:	08/17/23 08:00	Work Order ID:	E308129
Phone:	(832) 930-8546	Date Logged In:	08/17/23 09:01	Logged In By:	Caitlin Mars
Email:		Due Date:	08/23/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/Resolution

Time sampled not provided on COC per client.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Bradley Wells



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Spur Energy Partners

Project Name: Tumak Federal #3 Battery

Work Order: E308157

Job Number: 21068-0001

Received: 8/22/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/25/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 8/25/23

Bradley Wells
PO Box 1058
Houston, TX 77279



Project Name: Tumak Federal #3 Battery
Workorder: E308157
Date Received: 8/22/2023 8:15:00AM

Bradley Wells,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/22/2023 8:15:00AM, under the Project Name: Tumak Federal #3 Battery.

The analytical test results summarized in this report with the Project Name: Tumak Federal #3 Battery apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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Laboratory Administrator
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Sample Summary

Spur Energy Partners	Project Name:	Tumak Federal #3 Battery	Reported: 08/25/23 10:32
PO Box 1058	Project Number:	21068-0001	
Houston TX, 77279	Project Manager:	Bradley Wells	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1 4'	E308157-01A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.
SP2 4'	E308157-02A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.
SP3 4'	E308157-03A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.
SP4 4'	E308157-04A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.



Sample Data

Spur Energy Partners PO Box 1058 Houston TX, 77279	Project Name: Tumak Federal #3 Battery Project Number: 21068-0001 Project Manager: Bradley Wells	Reported: 8/25/2023 10:32:53AM
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SP1 4'
E308157-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2334021	
Benzene	ND	0.0250	1	08/22/23	08/22/23	
Ethylbenzene	ND	0.0250	1	08/22/23	08/22/23	
Toluene	ND	0.0250	1	08/22/23	08/22/23	
o-Xylene	ND	0.0250	1	08/22/23	08/22/23	
p,m-Xylene	ND	0.0500	1	08/22/23	08/22/23	
Total Xylenes	ND	0.0250	1	08/22/23	08/22/23	
Surrogate: Bromofluorobenzene	119 %	70-130		08/22/23	08/22/23	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		08/22/23	08/22/23	
Surrogate: Toluene-d8	107 %	70-130		08/22/23	08/22/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2334021	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/22/23	
Surrogate: Bromofluorobenzene	119 %	70-130		08/22/23	08/22/23	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		08/22/23	08/22/23	
Surrogate: Toluene-d8	107 %	70-130		08/22/23	08/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2334041	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/23	08/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/23	08/24/23	
Surrogate: n-Nonane	96.5 %	50-200		08/23/23	08/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2334029	
Chloride	346	20.0	1	08/22/23	08/22/23	



Sample Data

Spur Energy Partners PO Box 1058 Houston TX, 77279	Project Name: Tumak Federal #3 Battery Project Number: 21068-0001 Project Manager: Bradley Wells	Reported: 8/25/2023 10:32:53AM
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SP2 4'

E308157-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334021	
Benzene	ND	0.0250	1	08/22/23	08/23/23	
Ethylbenzene	ND	0.0250	1	08/22/23	08/23/23	
Toluene	ND	0.0250	1	08/22/23	08/23/23	
o-Xylene	ND	0.0250	1	08/22/23	08/23/23	
p,m-Xylene	ND	0.0500	1	08/22/23	08/23/23	
Total Xylenes	ND	0.0250	1	08/22/23	08/23/23	
Surrogate: Bromofluorobenzene		119 %	70-130	08/22/23	08/23/23	
Surrogate: 1,2-Dichloroethane-d4		93.4 %	70-130	08/22/23	08/23/23	
Surrogate: Toluene-d8		107 %	70-130	08/22/23	08/23/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334021	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/23/23	
Surrogate: Bromofluorobenzene		119 %	70-130	08/22/23	08/23/23	
Surrogate: 1,2-Dichloroethane-d4		93.4 %	70-130	08/22/23	08/23/23	
Surrogate: Toluene-d8		107 %	70-130	08/22/23	08/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2334041	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/23	08/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/23	08/24/23	
Surrogate: n-Nonane		93.9 %	50-200	08/23/23	08/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2334029	
Chloride	59.0	20.0	1	08/22/23	08/22/23	



Sample Data

Spur Energy Partners
PO Box 1058
Houston TX, 77279

Project Name: Tumak Federal #3 Battery
Project Number: 21068-0001
Project Manager: Bradley Wells

Reported:
8/25/2023 10:32:53AM

SP3 4'

E308157-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2334021
Benzene	ND	0.0250	1	08/22/23	08/23/23	
Ethylbenzene	ND	0.0250	1	08/22/23	08/23/23	
Toluene	ND	0.0250	1	08/22/23	08/23/23	
o-Xylene	ND	0.0250	1	08/22/23	08/23/23	
p,m-Xylene	ND	0.0500	1	08/22/23	08/23/23	
Total Xylenes	ND	0.0250	1	08/22/23	08/23/23	
Surrogate: Bromofluorobenzene		116 %	70-130	08/22/23	08/23/23	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	08/22/23	08/23/23	
Surrogate: Toluene-d8		107 %	70-130	08/22/23	08/23/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2334021
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/23/23	
Surrogate: Bromofluorobenzene		116 %	70-130	08/22/23	08/23/23	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	08/22/23	08/23/23	
Surrogate: Toluene-d8		107 %	70-130	08/22/23	08/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2334041
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/23	08/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/23	08/24/23	
Surrogate: n-Nonane		92.6 %	50-200	08/23/23	08/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2334029
Chloride	283	20.0	1	08/22/23	08/22/23	



Sample Data

Spur Energy Partners PO Box 1058 Houston TX, 77279	Project Name: Tumak Federal #3 Battery Project Number: 21068-0001 Project Manager: Bradley Wells	Reported: 8/25/2023 10:32:53AM
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SP4 4'

E308157-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334021	
Benzene	ND	0.0250	1	08/22/23	08/23/23	
Ethylbenzene	ND	0.0250	1	08/22/23	08/23/23	
Toluene	ND	0.0250	1	08/22/23	08/23/23	
o-Xylene	ND	0.0250	1	08/22/23	08/23/23	
p,m-Xylene	ND	0.0500	1	08/22/23	08/23/23	
Total Xylenes	ND	0.0250	1	08/22/23	08/23/23	
Surrogate: Bromofluorobenzene		119 %	70-130	08/22/23	08/23/23	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	08/22/23	08/23/23	
Surrogate: Toluene-d8		106 %	70-130	08/22/23	08/23/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334021	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/23/23	
Surrogate: Bromofluorobenzene		119 %	70-130	08/22/23	08/23/23	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	08/22/23	08/23/23	
Surrogate: Toluene-d8		106 %	70-130	08/22/23	08/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2334041	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/23	08/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/23	08/24/23	
Surrogate: n-Nonane		92.2 %	50-200	08/23/23	08/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2334029	
Chloride	78.6	20.0	1	08/22/23	08/22/23	



Spur Energy Partners	Project Name:	Tumak Federal #3 Battery	Reported:
PO Box 1058	Project Number:	21068-0001	
Houston TX, 77279	Project Manager:	Bradley Wells	8/25/2023 10:32:53AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

Blank (2334021-BLK1)

Prepared: 08/22/23 Analyzed: 08/22/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.592		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.1	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			

LCS (2334021-BS1)

Prepared: 08/22/23 Analyzed: 08/22/23

Benzene	2.53	0.0250	2.50		101	70-130			
Ethylbenzene	2.47	0.0250	2.50		98.8	70-130			
Toluene	2.50	0.0250	2.50		100	70-130			
o-Xylene	2.61	0.0250	2.50		104	70-130			
p,m-Xylene	5.18	0.0500	5.00		104	70-130			
Total Xylenes	7.79	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.594		0.500		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			

Matrix Spike (2334021-MS1)

Source: E308157-01

Prepared: 08/22/23 Analyzed: 08/22/23

Benzene	2.63	0.0250	2.50	ND	105	48-131			
Ethylbenzene	2.58	0.0250	2.50	ND	103	45-135			
Toluene	2.61	0.0250	2.50	ND	104	48-130			
o-Xylene	2.77	0.0250	2.50	ND	111	43-135			
p,m-Xylene	5.51	0.0500	5.00	ND	110	43-135			
Total Xylenes	8.28	0.0250	7.50	ND	110	43-135			
Surrogate: Bromofluorobenzene	0.599		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.7	70-130			
Surrogate: Toluene-d8	0.535		0.500		107	70-130			

Matrix Spike Dup (2334021-MSD1)

Source: E308157-01

Prepared: 08/22/23 Analyzed: 08/22/23

Benzene	2.61	0.0250	2.50	ND	104	48-131	0.877	23	
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135	1.56	27	
Toluene	2.57	0.0250	2.50	ND	103	48-130	1.66	24	
o-Xylene	2.75	0.0250	2.50	ND	110	43-135	0.598	27	
p,m-Xylene	5.48	0.0500	5.00	ND	110	43-135	0.637	27	
Total Xylenes	8.23	0.0250	7.50	ND	110	43-135	0.624	27	
Surrogate: Bromofluorobenzene	0.613		0.500		123	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

QC Summary Data

Spur Energy Partners	Project Name:	Tumak Federal #3 Battery	Reported:
PO Box 1058	Project Number:	21068-0001	
Houston TX, 77279	Project Manager:	Bradley Wells	8/25/2023 10:32:53AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

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

Blank (2334021-BLK1) Prepared: 08/22/23 Analyzed: 08/22/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.592		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.1	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			

LCS (2334021-BS2) Prepared: 08/22/23 Analyzed: 08/22/23

Gasoline Range Organics (C6-C10)	50.7	20.0	50.0		101	70-130			
Surrogate: Bromofluorobenzene	0.602		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			

Matrix Spike (2334021-MS2) Source: E308157-01 Prepared: 08/22/23 Analyzed: 08/22/23

Gasoline Range Organics (C6-C10)	50.6	20.0	50.0	ND	101	70-130			
Surrogate: Bromofluorobenzene	0.602		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			

Matrix Spike Dup (2334021-MSD2) Source: E308157-01 Prepared: 08/22/23 Analyzed: 08/22/23

Gasoline Range Organics (C6-C10)	50.8	20.0	50.0	ND	102	70-130	0.325	20	
Surrogate: Bromofluorobenzene	0.589		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.5	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			



QC Summary Data

Spur Energy Partners	Project Name:	Tumak Federal #3 Battery	Reported:
PO Box 1058	Project Number:	21068-0001	
Houston TX, 77279	Project Manager:	Bradley Wells	8/25/2023 10:32:53AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2334041-BLK1)					Prepared: 08/23/23 Analyzed: 08/23/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.5		50.0		117	50-200			

LCS (2334041-BS1)					Prepared: 08/23/23 Analyzed: 08/24/23				
Diesel Range Organics (C10-C28)	248	25.0	250		99.4	38-132			
Surrogate: n-Nonane	48.2		50.0		96.3	50-200			

Matrix Spike (2334041-MS1)					Source: E308155-23		Prepared: 08/23/23 Analyzed: 08/24/23		
Diesel Range Organics (C10-C28)	245	25.0	250	ND	98.2	38-132			
Surrogate: n-Nonane	45.2		50.0		90.5	50-200			

Matrix Spike Dup (2334041-MSD1)					Source: E308155-23		Prepared: 08/23/23 Analyzed: 08/24/23		
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.7	38-132	1.54	20	
Surrogate: n-Nonane	47.6		50.0		95.2	50-200			



QC Summary Data

Spur Energy Partners	Project Name:	Tumak Federal #3 Battery	Reported:
PO Box 1058	Project Number:	21068-0001	
Houston TX, 77279	Project Manager:	Bradley Wells	8/25/2023 10:32:53AM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2334029-BLK1)					Prepared: 08/22/23 Analyzed: 08/22/23				
Chloride	ND	20.0							
LCS (2334029-BS1)					Prepared: 08/22/23 Analyzed: 08/22/23				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2334029-MS1)					Source: E308154-21		Prepared: 08/22/23 Analyzed: 08/22/23		
Chloride	269	20.0	250	ND	108	80-120			
Matrix Spike Dup (2334029-MSD1)					Source: E308154-21		Prepared: 08/22/23 Analyzed: 08/22/23		
Chloride	273	20.0	250	ND	109	80-120	1.38	20	

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



Definitions and Notes

Spur Energy Partners	Project Name:	Tumak Federal #3 Battery	
PO Box 1058	Project Number:	21068-0001	Reported:
Houston TX, 77279	Project Manager:	Bradley Wells	08/25/23 10:32

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



Client: Spur		Bill To						Lab Use Only							TAT				EPA Program					
Project: Tumak Federal #3 Battery		Attention: Kathy Purvis						Lab WO#			Job Number				1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Bradley Wells		Address: 104 S Pecos St.						308157			21068-0001							X						
Address: 4024 Plains Hwy		City, State, Zip: Midland						Analysis and Method														RCRA		
City, State, Zip: Lovington, NM 88260, NM, 88260		Phone: 575-441-8619							O by 8015	O by 8015	8021	260	010	300.0		NM	TX		State					
Phone: 575 393-3386		Email: katherine.purvis@spurenergy.com																	NM	CO	UT	AZ	TX	
Email: pm@hungry-horse.com																			x					
Report due by:																								

[illegible]

Additional Instructions:	Email results to: pm@hungry-horse.com katherine.purvis@spurenergy.com
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I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

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

Relinquished by: (Signature) <i>[Signature]</i>	Date 8/21/23	Time 1436	Received by: (Signature) <i>[Signature]</i>	Date 8-21-23	Time 1436	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>[Signature]</i>	Date 8-21-23	Time 1700	Received by: (Signature) <i>[Signature]</i>	Date 8-21-23	Time 1715	
Relinquished by: (Signature) <i>[Signature]</i>	Date 8.21.23	Time 2345	Received by: (Signature) <i>[Signature]</i>	Date 8/22/23	Time 8:15	

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

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

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

Envirotech Analytical Laboratory

Printed: 8/22/2023 9:36:38AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Spur Energy Partners	Date Received:	08/22/23 08:15	Work Order ID:	E308157
Phone:	(832) 930-8546	Date Logged In:	08/21/23 15:32	Logged In By:	Caitlin Mars
Email:		Due Date:	08/28/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Time sampled not provided on COC per client.

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

Date



envirotech Inc.

Report to:
Bradley Wells



5796 U.S. Hwy 64
Farmington, NM 87401

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Spur Energy Partners

Project Name: Tumak Federal #3 Battery

Work Order: E408168

Job Number: 21068-0001

Received: 8/20/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/26/24

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

Date Reported: 8/26/24

Bradley Wells
PO Box 1058
Houston, TX 77279



Project Name: Tumak Federal #3 Battery
Workorder: E408168
Date Received: 8/20/2024 5:00:00AM

Bradley Wells,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/20/2024 5:00:00AM, under the Project Name: Tumak Federal #3 Battery.

The analytical test results summarized in this report with the Project Name: Tumak Federal #3 Battery apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
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Sample Summary

Spur Energy Partners	Project Name:	Tumak Federal #3 Battery	Reported:
PO Box 1058	Project Number:	21068-0001	
Houston TX, 77279	Project Manager:	Bradley Wells	08/26/24 09:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FL1 - Surf	E408168-01A	Soil	08/19/24	08/20/24	Glass Jar, 2 oz.
FL2 - Surf	E408168-02A	Soil	08/19/24	08/20/24	Glass Jar, 2 oz.
FL3 - Surf	E408168-03A	Soil	08/19/24	08/20/24	Glass Jar, 2 oz.
FL4 - Surf	E408168-04A	Soil	08/19/24	08/20/24	Glass Jar, 2 oz.
FL5 - Surf	E408168-05A	Soil	08/19/24	08/20/24	Glass Jar, 2 oz.
FL6 - Surf	E408168-06A	Soil	08/19/24	08/20/24	Glass Jar, 2 oz.
FL7 - Surf	E408168-07A	Soil	08/19/24	08/20/24	Glass Jar, 2 oz.
FL8 - Surf	E408168-08A	Soil	08/19/24	08/20/24	Glass Jar, 2 oz.
FL9 - Surf	E408168-09A	Soil	08/19/24	08/20/24	Glass Jar, 2 oz.
FL10 - Surf	E408168-10A	Soil	08/19/24	08/20/24	Glass Jar, 2 oz.
FL11 - Surf	E408168-11A	Soil	08/19/24	08/20/24	Glass Jar, 2 oz.
FL12 - Surf	E408168-12A	Soil	08/19/24	08/20/24	Glass Jar, 2 oz.
FL13 - Surf	E408168-13A	Soil	08/19/24	08/20/24	Glass Jar, 2 oz.



Sample Data

Spur Energy Partners PO Box 1058 Houston TX, 77279	Project Name: Tumak Federal #3 Battery Project Number: 21068-0001 Project Manager: Bradley Wells	Reported: 8/26/2024 9:20:48AM
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FL1 - Surf
E408168-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2434039	
Benzene	ND	0.0250	1	08/20/24	08/21/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/21/24	
Toluene	ND	0.0250	1	08/20/24	08/21/24	
o-Xylene	ND	0.0250	1	08/20/24	08/21/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/21/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/21/24	
Surrogate: Bromofluorobenzene		112 %	70-130	08/20/24	08/21/24	
Surrogate: 1,2-Dichloroethane-d4		89.2 %	70-130	08/20/24	08/21/24	
Surrogate: Toluene-d8		106 %	70-130	08/20/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2434039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/21/24	
Surrogate: Bromofluorobenzene		112 %	70-130	08/20/24	08/21/24	
Surrogate: 1,2-Dichloroethane-d4		89.2 %	70-130	08/20/24	08/21/24	
Surrogate: Toluene-d8		106 %	70-130	08/20/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434027	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/22/24	
Surrogate: n-Nonane		79.0 %	50-200	08/20/24	08/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2434037	
Chloride	223	20.0	1	08/20/24	08/20/24	

Sample Data

Spur Energy Partners
PO Box 1058
Houston TX, 77279

Project Name: Tumak Federal #3 Battery
Project Number: 21068-0001
Project Manager: Bradley Wells

Reported:
8/26/2024 9:20:48AM

FL2 - Surf

E408168-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Benzene	ND	0.0250	1	08/20/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/22/24	
Toluene	ND	0.0250	1	08/20/24	08/22/24	
o-Xylene	ND	0.0250	1	08/20/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		110 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		91.0 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		105 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		110 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		91.0 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		105 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434027
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/22/24	
Surrogate: n-Nonane		80.3 %	50-200	08/20/24	08/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434037
Chloride	ND	20.0	1	08/20/24	08/20/24	



Sample Data

Spur Energy Partners PO Box 1058 Houston TX, 77279	Project Name: Tumak Federal #3 Battery Project Number: 21068-0001 Project Manager: Bradley Wells	Reported: 8/26/2024 9:20:48AM
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FL3 - Surf
E408168-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Benzene	ND	0.0250	1	08/20/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/22/24	
Toluene	ND	0.0250	1	08/20/24	08/22/24	
o-Xylene	ND	0.0250	1	08/20/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		107 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		92.2 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		104 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		107 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		92.2 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		104 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434027
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/22/24	
Surrogate: n-Nonane		84.0 %	50-200	08/20/24	08/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434037
Chloride	ND	20.0	1	08/20/24	08/20/24	



Sample Data

Spur Energy Partners PO Box 1058 Houston TX, 77279	Project Name: Tumak Federal #3 Battery Project Number: 21068-0001 Project Manager: Bradley Wells	Reported: 8/26/2024 9:20:48AM
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FL4 - Surf
E408168-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Benzene	ND	0.0250	1	08/20/24	08/21/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/21/24	
Toluene	ND	0.0250	1	08/20/24	08/21/24	
o-Xylene	ND	0.0250	1	08/20/24	08/21/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/21/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/21/24	
Surrogate: Bromofluorobenzene		114 %	70-130	08/20/24	08/21/24	
Surrogate: 1,2-Dichloroethane-d4		93.4 %	70-130	08/20/24	08/21/24	
Surrogate: Toluene-d8		106 %	70-130	08/20/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/21/24	
Surrogate: Bromofluorobenzene		114 %	70-130	08/20/24	08/21/24	
Surrogate: 1,2-Dichloroethane-d4		93.4 %	70-130	08/20/24	08/21/24	
Surrogate: Toluene-d8		106 %	70-130	08/20/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434027
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/22/24	
Surrogate: n-Nonane		83.9 %	50-200	08/20/24	08/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434037
Chloride	ND	20.0	1	08/20/24	08/20/24	



Sample Data

Spur Energy Partners
PO Box 1058
Houston TX, 77279

Project Name: Tumak Federal #3 Battery
Project Number: 21068-0001
Project Manager: Bradley Wells

Reported:
8/26/2024 9:20:48AM

FL5 - Surf

E408168-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Benzene	ND	0.0250	1	08/20/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/22/24	
Toluene	ND	0.0250	1	08/20/24	08/22/24	
o-Xylene	ND	0.0250	1	08/20/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		109 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		100 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		109 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		100 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434027
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/22/24	
Surrogate: n-Nonane		83.7 %	50-200	08/20/24	08/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434037
Chloride	ND	20.0	1	08/20/24	08/20/24	



Sample Data

Spur Energy Partners PO Box 1058 Houston TX, 77279	Project Name: Tumak Federal #3 Battery Project Number: 21068-0001 Project Manager: Bradley Wells	Reported: 8/26/2024 9:20:48AM
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FL6 - Surf
E408168-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Benzene	ND	0.0250	1	08/20/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/22/24	
Toluene	ND	0.0250	1	08/20/24	08/22/24	
o-Xylene	ND	0.0250	1	08/20/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		109 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		89.8 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		105 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		109 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		89.8 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		105 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434027
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/22/24	
Surrogate: n-Nonane		81.9 %	50-200	08/20/24	08/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434037
Chloride	ND	20.0	1	08/20/24	08/20/24	



Sample Data

Spur Energy Partners PO Box 1058 Houston TX, 77279	Project Name: Tumak Federal #3 Battery Project Number: 21068-0001 Project Manager: Bradley Wells	Reported: 8/26/2024 9:20:48AM
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FL7 - Surf
E408168-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Benzene	ND	0.0250	1	08/20/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/22/24	
Toluene	ND	0.0250	1	08/20/24	08/22/24	
o-Xylene	ND	0.0250	1	08/20/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		110 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		90.8 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		104 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		110 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		90.8 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		104 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434027
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/22/24	
Surrogate: n-Nonane		81.8 %	50-200	08/20/24	08/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434037
Chloride	ND	20.0	1	08/20/24	08/20/24	



Sample Data

Spur Energy Partners
PO Box 1058
Houston TX, 77279

Project Name: Tumak Federal #3 Battery
Project Number: 21068-0001
Project Manager: Bradley Wells

Reported:
8/26/2024 9:20:48AM

FL8 - Surf

E408168-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Benzene	ND	0.0250	1	08/20/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/22/24	
Toluene	ND	0.0250	1	08/20/24	08/22/24	
o-Xylene	ND	0.0250	1	08/20/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		111 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		87.6 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		108 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		111 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		87.6 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		108 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434027
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/22/24	
Surrogate: n-Nonane		83.4 %	50-200	08/20/24	08/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434037
Chloride	ND	20.0	1	08/20/24	08/20/24	



Sample Data

Spur Energy Partners PO Box 1058 Houston TX, 77279	Project Name: Tumak Federal #3 Battery Project Number: 21068-0001 Project Manager: Bradley Wells	Reported: 8/26/2024 9:20:48AM
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FL9 - Surf
E408168-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Benzene	ND	0.0250	1	08/20/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/22/24	
Toluene	ND	0.0250	1	08/20/24	08/22/24	
o-Xylene	ND	0.0250	1	08/20/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		107 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		90.6 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		103 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		107 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		90.6 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		103 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434027
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/22/24	
Surrogate: n-Nonane		81.1 %	50-200	08/20/24	08/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434037
Chloride	ND	20.0	1	08/20/24	08/20/24	



Sample Data

Spur Energy Partners
PO Box 1058
Houston TX, 77279

Project Name: Tumak Federal #3 Battery
Project Number: 21068-0001
Project Manager: Bradley Wells

Reported:
8/26/2024 9:20:48AM

FL10 - Surf

E408168-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Benzene	ND	0.0250	1	08/20/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/22/24	
Toluene	ND	0.0250	1	08/20/24	08/22/24	
o-Xylene	ND	0.0250	1	08/20/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		108 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		89.4 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		105 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		108 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		89.4 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		105 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434027
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/22/24	
Surrogate: n-Nonane		81.0 %	50-200	08/20/24	08/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434037
Chloride	ND	20.0	1	08/20/24	08/21/24	



Sample Data

Spur Energy Partners PO Box 1058 Houston TX, 77279	Project Name: Tumak Federal #3 Battery Project Number: 21068-0001 Project Manager: Bradley Wells	Reported: 8/26/2024 9:20:48AM
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FL11 - Surf
E408168-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Benzene	ND	0.0250	1	08/20/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/22/24	
Toluene	ND	0.0250	1	08/20/24	08/22/24	
o-Xylene	ND	0.0250	1	08/20/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		108 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		90.1 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		103 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		108 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		90.1 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		103 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434027
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/23/24	
Surrogate: n-Nonane		81.4 %	50-200	08/20/24	08/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434037
Chloride	ND	20.0	1	08/20/24	08/21/24	



Sample Data

Spur Energy Partners PO Box 1058 Houston TX, 77279	Project Name: Tumak Federal #3 Battery Project Number: 21068-0001 Project Manager: Bradley Wells	Reported: 8/26/2024 9:20:48AM
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FL12 - Surf
E408168-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Benzene	ND	0.0250	1	08/20/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/22/24	
Toluene	ND	0.0250	1	08/20/24	08/22/24	
o-Xylene	ND	0.0250	1	08/20/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		107 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		104 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		107 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		104 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434027
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/23/24	
Surrogate: n-Nonane		82.7 %	50-200	08/20/24	08/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434037
Chloride	ND	20.0	1	08/20/24	08/21/24	



Sample Data

Spur Energy Partners PO Box 1058 Houston TX, 77279	Project Name: Tumak Federal #3 Battery Project Number: 21068-0001 Project Manager: Bradley Wells	Reported: 8/26/2024 9:20:48AM
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FL13 - Surf
E408168-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Benzene	ND	0.0250	1	08/20/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/22/24	
Toluene	ND	0.0250	1	08/20/24	08/22/24	
o-Xylene	ND	0.0250	1	08/20/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		106 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		90.9 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		103 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		106 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		90.9 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		103 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434027
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/23/24	
Surrogate: n-Nonane		79.7 %	50-200	08/20/24	08/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434037
Chloride	ND	20.0	1	08/20/24	08/21/24	



Spur Energy Partners	Project Name:	Tumak Federal #3 Battery	Reported:
PO Box 1058	Project Number:	21068-0001	
Houston TX, 77279	Project Manager:	Bradley Wells	8/26/2024 9:20:48AM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2434039-BLK1) Prepared: 08/20/24 Analyzed: 08/21/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.579		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.427		0.500		85.4	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			

LCS (2434039-BS1) Prepared: 08/20/24 Analyzed: 08/21/24

Benzene	2.28	0.0250	2.50		91.1	70-130			
Ethylbenzene	2.42	0.0250	2.50		96.9	70-130			
Toluene	2.51	0.0250	2.50		100	70-130			
o-Xylene	2.66	0.0250	2.50		106	70-130			
p,m-Xylene	5.32	0.0500	5.00		106	70-130			
Total Xylenes	7.98	0.0250	7.50		106	70-130			
Surrogate: Bromofluorobenzene	0.572		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.451		0.500		90.2	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			

Matrix Spike (2434039-MS1) Source: E408168-04 Prepared: 08/20/24 Analyzed: 08/21/24

Benzene	2.28	0.0250	2.50	ND	91.0	48-131			
Ethylbenzene	2.39	0.0250	2.50	ND	95.6	45-135			
Toluene	2.48	0.0250	2.50	ND	99.1	48-130			
o-Xylene	2.62	0.0250	2.50	ND	105	43-135			
p,m-Xylene	5.25	0.0500	5.00	ND	105	43-135			
Total Xylenes	7.87	0.0250	7.50	ND	105	43-135			
Surrogate: Bromofluorobenzene	0.565		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

Matrix Spike Dup (2434039-MSD1) Source: E408168-04 Prepared: 08/20/24 Analyzed: 08/21/24

Benzene	2.23	0.0250	2.50	ND	89.3	48-131	1.93	23	
Ethylbenzene	2.36	0.0250	2.50	ND	94.4	45-135	1.35	27	
Toluene	2.44	0.0250	2.50	ND	97.4	48-130	1.65	24	
o-Xylene	2.61	0.0250	2.50	ND	105	43-135	0.325	27	
p,m-Xylene	5.15	0.0500	5.00	ND	103	43-135	1.92	27	
Total Xylenes	7.76	0.0250	7.50	ND	103	43-135	1.39	27	
Surrogate: Bromofluorobenzene	0.564		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.8	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			



QC Summary Data

Spur Energy Partners	Project Name:	Tumak Federal #3 Battery	Reported:
PO Box 1058	Project Number:	21068-0001	
Houston TX, 77279	Project Manager:	Bradley Wells	8/26/2024 9:20:48AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434039-BLK1) Prepared: 08/20/24 Analyzed: 08/21/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.579		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.427		0.500		85.4	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			

LCS (2434039-BS2) Prepared: 08/20/24 Analyzed: 08/21/24

Gasoline Range Organics (C6-C10)	47.7	20.0	50.0		95.3	70-130			
Surrogate: Bromofluorobenzene	0.558		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.447		0.500		89.3	70-130			
Surrogate: Toluene-d8	0.539		0.500		108	70-130			

Matrix Spike (2434039-MS2) Source: E408168-04 Prepared: 08/20/24 Analyzed: 08/21/24

Gasoline Range Organics (C6-C10)	48.3	20.0	50.0	ND	96.7	70-130			
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.449		0.500		89.8	70-130			
Surrogate: Toluene-d8	0.539		0.500		108	70-130			

Matrix Spike Dup (2434039-MSD2) Source: E408168-04 Prepared: 08/20/24 Analyzed: 08/21/24

Gasoline Range Organics (C6-C10)	43.6	20.0	50.0	ND	87.2	70-130	10.2	20	
Surrogate: Bromofluorobenzene	0.545		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.555		0.500		111	70-130			



QC Summary Data

Spur Energy Partners	Project Name:	Tumak Federal #3 Battery	Reported:
PO Box 1058	Project Number:	21068-0001	
Houston TX, 77279	Project Manager:	Bradley Wells	8/26/2024 9:20:48AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434027-BLK1) Prepared: 08/20/24 Analyzed: 08/22/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.2		50.0		92.5	50-200			

LCS (2434027-BS1) Prepared: 08/20/24 Analyzed: 08/22/24

Diesel Range Organics (C10-C28)	190	25.0	250		75.9	38-132			
Surrogate: n-Nonane	41.2		50.0		82.3	50-200			

Matrix Spike (2434027-MS1) Source: E408168-01 Prepared: 08/20/24 Analyzed: 08/22/24

Diesel Range Organics (C10-C28)	197	25.0	250	ND	78.7	38-132			
Surrogate: n-Nonane	40.2		50.0		80.4	50-200			

Matrix Spike Dup (2434027-MSD1) Source: E408168-01 Prepared: 08/20/24 Analyzed: 08/22/24

Diesel Range Organics (C10-C28)	207	25.0	250	ND	82.6	38-132	4.87	20	
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			



QC Summary Data

Spur Energy Partners	Project Name:	Tumak Federal #3 Battery	Reported:
PO Box 1058	Project Number:	21068-0001	
Houston TX, 77279	Project Manager:	Bradley Wells	8/26/2024 9:20:48AM

Anions by EPA 300.0/9056A

Analyst: JM

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

Blank (2434037-BLK1)					Prepared: 08/20/24 Analyzed: 08/20/24				
Chloride	ND	20.0							
LCS (2434037-BS1)					Prepared: 08/20/24 Analyzed: 08/20/24				
Chloride	254	20.0	250		101	90-110			
Matrix Spike (2434037-MS1)					Source: E408168-08		Prepared: 08/20/24 Analyzed: 08/20/24		
Chloride	256	20.0	250	ND	103	80-120			
Matrix Spike Dup (2434037-MSD1)					Source: E408168-08		Prepared: 08/20/24 Analyzed: 08/20/24		
Chloride	256	20.0	250	ND	102	80-120	0.105	20	

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



Definitions and Notes

Spur Energy Partners	Project Name:	Tumak Federal #3 Battery	
PO Box 1058	Project Number:	21068-0001	Reported:
Houston TX, 77279	Project Manager:	Bradley Wells	08/26/24 09:20

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



Project Information:

Client: Spur

Page: 1 of 1

Client: Spur
 Project: Tumak Federal #3 Battery
 Project Manager: Bradley Wells
 Address: 4024 Plains Hwy
 City, State, Zip: Lovington, NM 88260, NM, 88260
 Phone: 575 393-3386
 Email: pm@hungry-horse.com
 Report due by:

Bill To
 Attention: Kathy Purvis
 Address: 104 S Pecos St.
 City, State, Zip: Midland
 Phone: 575-441-8619
 Email: katherine.purvis@spurenergy.com

Lab Use Only
 Lab WO# **E408168**
 Job Number **21068-0001**
 Analysis and Method
 TAT
 1D 2D 3D Standard X
 EPA Program
 CWA SDWA
 RCRA
 State
 NM CO UT AZ TX
 X

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
9:05	8/19/24	Soil	1	FL1	Surf	1							X		
9:10	8/19/24	Soil	1	FL2	Surf	2							X		
9:15	8/19/24	Soil	1	FL3	Surf	3							X		
9:20	8/19/24	Soil	1	FL4	Surf	4							X		
9:25	8/19/24	Soil	1	FL5	Surf	5							X		
9:30	8/19/24	Soil	1	FL6	Surf	6							X		
9:35	8/19/24	Soil	1	FL7	Surf	7							X		
9:40	8/19/24	Soil	1	FL8	Surf	8							X		
9:45	8/19/24	Soil	1	FL9	Surf	9							X		
9:50	8/19/24	Soil	1	FL10	Surf	10							X		

Additional Instructions: Email results to: pm@hungry-horse.com
 katherine.purvis@spurenergy.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____
 Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <i>[Signature]</i>	Date 8/19/24	Time 1500	Received by: (Signature) <i>Michelle Gonzales</i>	Date 8-19-24	Time 1500	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>Michelle Gonzales</i>	Date 8-19-24	Time 1940	Received by: (Signature) <i>A.H.</i>	Date 8-19-24	Time 1940	
Relinquished by: (Signature) <i>A.H.</i>	Date 8-20-24	Time 0415	Received by: (Signature) <i>Kayla R. Hall</i>	Date 8-20-24	Time 0500	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



Envirotech Analytical Laboratory

Printed: 8/20/2024 9:36:24AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Spur Energy Partners	Date Received:	08/20/24 05:00	Work Order ID:	E408168
Phone:	(832) 930-8546	Date Logged In:	08/19/24 17:17	Logged In By:	Noe Soto
Email:		Due Date:	08/26/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Sampled by name is missing on COC by client.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 380512

QUESTIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	380512
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2321441318
Incident Name	NAPP2321441318 TUMAK FEDERAL 3 BATTERY @ 0
Incident Type	Fire
Incident Status	Remediation Closure Report Received

Location of Release Source

Please answer all the questions in this group.

Site Name	TUMAK FEDERAL 3 BATTERY
Date Release Discovered	08/01/2023
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

Incident Type	Fire
Did this release result in a fire or is the result of a fire	Yes
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	Yes
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: Lightning Tank (Any) Produced Water Released: 4 BBL Recovered: 0 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)	LIGHTNING STRUCK THE BATTERY RESULTING IN A FIRE AND PW RELEASE INTO CONTAINMENT

District I

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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QUESTIONS, Page 2

Action 380512

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	380512
	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	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire; (d) substantially damages property or the environment.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	N/A

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: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 09/04/2024
--	--

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

QUESTIONS, Page 3

Action 380512

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	380512
	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 26 and 50 (ft.)
What method was used to determine the depth to ground water	Estimate or Other
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 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 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between ½ and 1 (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	Yes
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	08/11/2023
On what date will (or did) the final sampling or liner inspection occur	08/19/2024
On what date will (or was) the remediation complete(d)	08/19/2024
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

District I

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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QUESTIONS, Page 4

Action 380512

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	380512
	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.)

Is (or was) there affected material present needing to be removed	Yes
Is (or was) there a power wash of the lined containment area (to be) performed	Yes
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: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 09/04/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 6

Action 380512

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	380512
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Liner Inspection Information	
Last liner inspection notification (C-141L) recorded	373767
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	08/19/2024
Was all the impacted materials removed from the liner	Yes
What was the liner inspection surface area in square feet	5000

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	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
Summarize any additional remediation activities not included by answers (above)	Remediation was unnecessary because the fire consumed the contaminants

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: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 09/04/2024
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CONDITIONS

Action 380512

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 380512
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2321441318 TUMAK FEDERAL 3 BATTERY, thank you. This Remediation Closure Report is approved.	9/25/2024