Spill Volume(Bbls) Calculator *Inputs in blue, Outputs in red*		
Length(Ft)	Width(Ft)	Depth(In)
30.000	20.000	30.000
Cubic Feet Impacted		1500.000
Barrels		267.14
Soil Type		Clay/Sand
Bbls Assuming 100% Saturation		40.07
Saturation	Fluid present when squeezed	
Estimated Barrels Released		20.10000

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)	30
Width (ft)	20
Depth (in)	30.000

Remediation Summary and Closure Request

Spur Energy Partners, LLC
Mack Tomano Tin Horn
Eddy County, New Mexico
Unit Letter "K", Section 36, Township 17 South, Range 31 East
Latitude 32.790610 North, Longitude 103.824270 West
NMOCD Incident # nAPP2324835257

Prepared For:

Spur Energy Partners, LLC
2407 Pecos Avenue
Artesia, NM 88210

Prepared By:

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

January 2024

Bradley Wells
Project Manager
bwells@hungry-horse.com

Daniel Dominguez
Environmental Manager
ddominguez@hungry-horse.com

Table Of Contents

Figures

Tables

Attachments

Incident ID	nAPP2324835257
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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?	undetermined (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☒ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2324835257
District RP	
Facility ID	
Application ID	

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

Printed Name: Katherine Purvis Title: EHS Coordinator

Signature: Katherine Purvis Date: 02/09/2024

email: katherine.purvis@spurenergy.com Telephone: 575-441-8619

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2324835257
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

☒ Detailed description of proposed remediation technique
☒ Scaled sitemap with GPS coordinates showing delineation points
☒ Estimated volume of material to be remediated
☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Katherine Purvis Title: EHS Coordinator

Signature: Katherine Purvis Date: 02/09/2024

email: katherine.purvis@spurenergy.com Telephone: 575-441-8619

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2324835257
District RP	
Facility ID	
Application ID	

Closure

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 (electronic submittals in .pdf format are preferred) 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.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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.

Printed Name: Katherine Purvis Title: EHS Coordinator

Signature: Katherine Purvis Date: 02/09/2024

email: katherine.purvis@spurenergy.com Telephone: 575-441-8619

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

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

Background:

The site is located in Unit Letter K (NE/SW), Section 36, Township 17 South, Range 31 East, approximately six miles southwest of Maljamar, in Lea County, New Mexico. The site is located on New Mexico State Trust land. Topographic Map, OSE POD Locations Map, and USGS Well Locations Map are included as Figure 1, Figure 2, and Figure 3, respectively.

The release occurred at a tin horn on an active water line; Latitude 32.790610 North, Longitude 103.824270 West. The Initial NMOCD Form C-141 indicated that on September 1, 2023 approximately 20 bbls of produced water were released due to a high line pressure caused a gasket failure. A crew was dispatched to the release site and the gasket was repaired. Approximately 15 bbls of fluid were recovered. Previously submitted pages of the NMOCD Form C-141 are available on the NMOCD Imaging System. NMOCD Form Initial C-141 is also included as Attachment VIII.

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 not located in a Karst designated area. 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. Therefore, the site was remediated according to the strictest NMOCD Closure Criteria. Utilizing this information, the NMOCD Closure Criteria for the Site were determined as follows:

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

A United States Department of Agriculture (USDA) Web Soil Survey was completed to determine soil types in the area of reclamation. Based on the Web Soil Survey the area is located in the Kermit-Berino fine sands soil type comprised of fine sand with 0 to 3 percent slopes. NMSLO Sandy site seed mixture will be utilized for seeding the area after these completed reclamation activities. Karst, Wetland, and Soil Maps are provided as Attachment I.

Delineation and Remediation Activities:

On September 6, 2023, Hungry Horse conducted an initial site assessment consisting of mapping and photographing the release area. On October 5, 2023, Hungry Horse personnel arrived on location to delineate the release area. During delineation, hand augered sample 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 sample bores were advanced along the outside edges of the release area in an effort to determine the horizontal extent of contamination. These sample locations are identified by HZ designation. During the advancement of the hand augered sample bores, soil samples were collected and field screened for the presence of chloride concentrations utilizing a Hach Quantab® chloride test kit.

Based on field observations and field test data noted above and provided in Attachment V, fourteen representative soil samples were selected for laboratory analysis. Delineation soil samples SP1 through SP3, HZ1 through HZ4, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples, with the exception of SP3 at two feet bgs, HZ2 Surface and one-foot bgs, and HZ4 Surface and one-foot bgs, which exhibited TPH concentrations in excess of NMOCD Closure Criteria.

On January 18-19, 2024, the release area, including the areas characterized by sample locations HZ2 and HZ4, were excavated to approximate depths ranging from two to four feet bgs. Soil impacted above the NMOCD Closure Criteria was excavated and temporarily stockpiled on site, atop plastic, before transport to an NMOCD approved disposal facility.

On January 24, 2024, Hungry Horse LLC notified NMOCD that closure samples would be collected on January 29, 2024. Correspondence is provided as Attachment II.

On January 24, 2024, six composite confirmation soil samples were collected from the excavation floor and sidewalls, every 200 square feet and every 50 linear feet, respectively. Soil samples FL1 through FL3 and SW1 through SW3, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples.

The excavated area measured approximately six hundred square feet. During remediation activities approximately 36 cubic yards of impacted soil were excavated and hauled to an NMOCD approved disposal facility.

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

Restoration, Reclamation, and Re-Vegetation:

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

The affected area will be scarified to aid with infiltration, overall success of seed germination, and plant establishment. The affected area will then be seeded, via hand broadcast at double the recommended rate, with NMSLO Sandy Sites seed mixture, free of noxious weeds, during the first favorable growing season following these completed remediation activities. Site will also be monitored for growth and noxious weed management on a semi-annual basis until desired vegetation is achieved. NMSLO Sandy Sites seed mixture is provided as Attachment VII.

Closure Request:

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

Based on laboratory analytical results, Spur Energy Partners, LLC respectfully requests closure of the Mack Tomano Tin Horn location, nAPP2324865257.

Limitations:

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

Distribution:

Spur Energy Partners, LLC
2407 Pecos Avenue
Artesia, NM 88210

New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 2
811 S. First St.
Artesia, NM 88210

New Mexico State Land Office
914 N. Linam St.
Hobbs, NM 88240

Figures

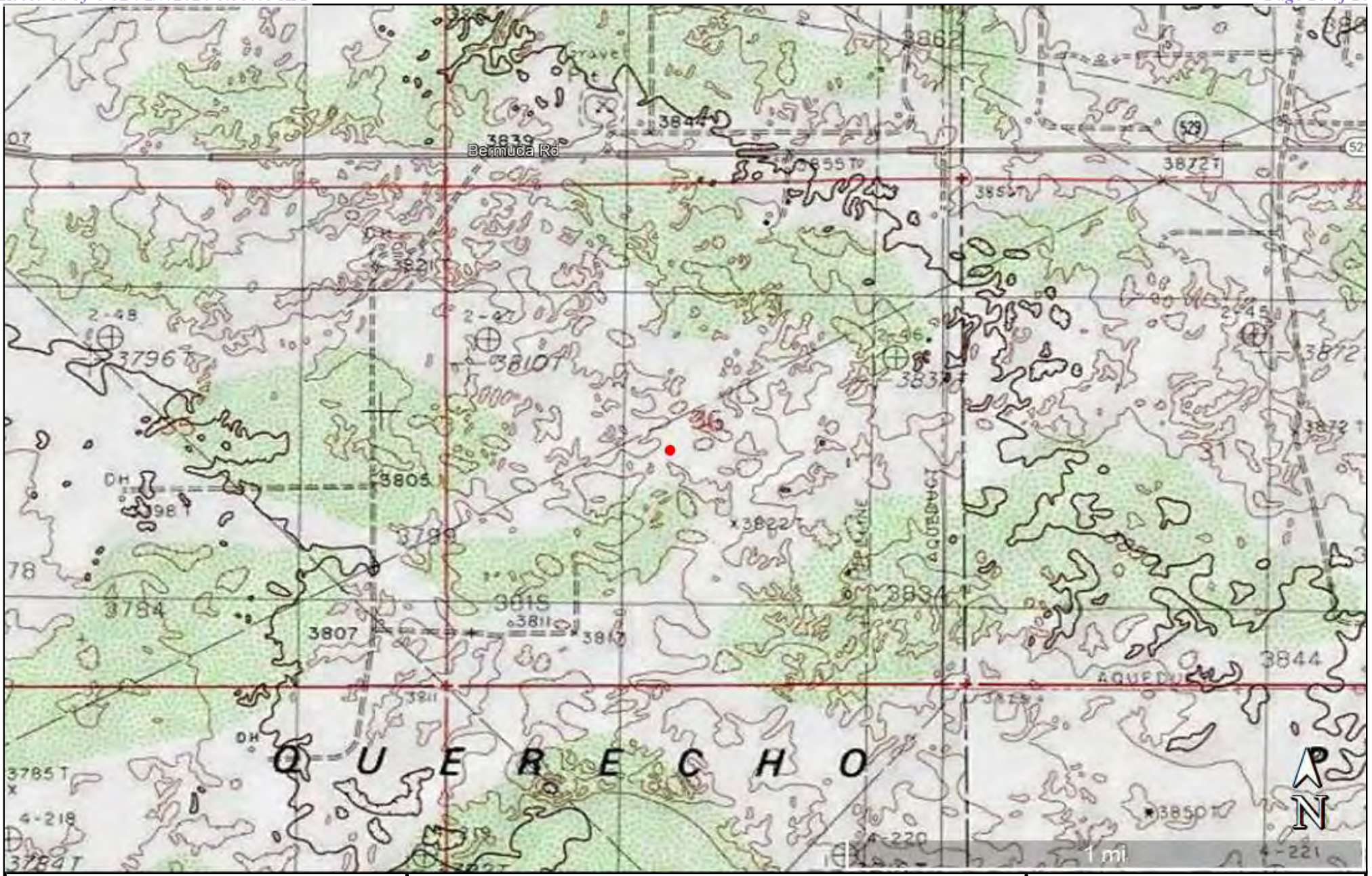


Figure 1
Topographic Map
Spur Energy Partners, LLC
Mack Tomano Tin Horn
GPS: 32.79061, -103.82427
Eddy County

Legend:
- Mack Tomano Tin Horn Location

Drafted: bw
Checked: dd
Date: 9/8/23

HUNGRY HORSE ENVIRONMENTAL & CONSTRUCTION

Figure 2
OSE POD Locations Map
Spur Energy Partners, LLC
Mack Tomano Tin Horn
GPS: 32.79061, -103.82427
Eddy County

Legend:

- Mack Tomano Tin Horn Location

Drafted: bw
Checked: dd
Date: 9/8/23

HUNGRY HORSE ENVIRONMENTAL & CONSTRUCTION

Figure 3
USGS Well Locations Map
Spur Energy Partners, LLC
Mack Tomano Tin Horn
GPS: 32.79061, -103.82427
Eddy County

Legend:
- Mack Tomano Tin Horn Location

Drafted: bw
Checked: dd
Date: 9/8/23

HUNGRY HORSE ENVIRONMENTAL & CONSTRUCTION

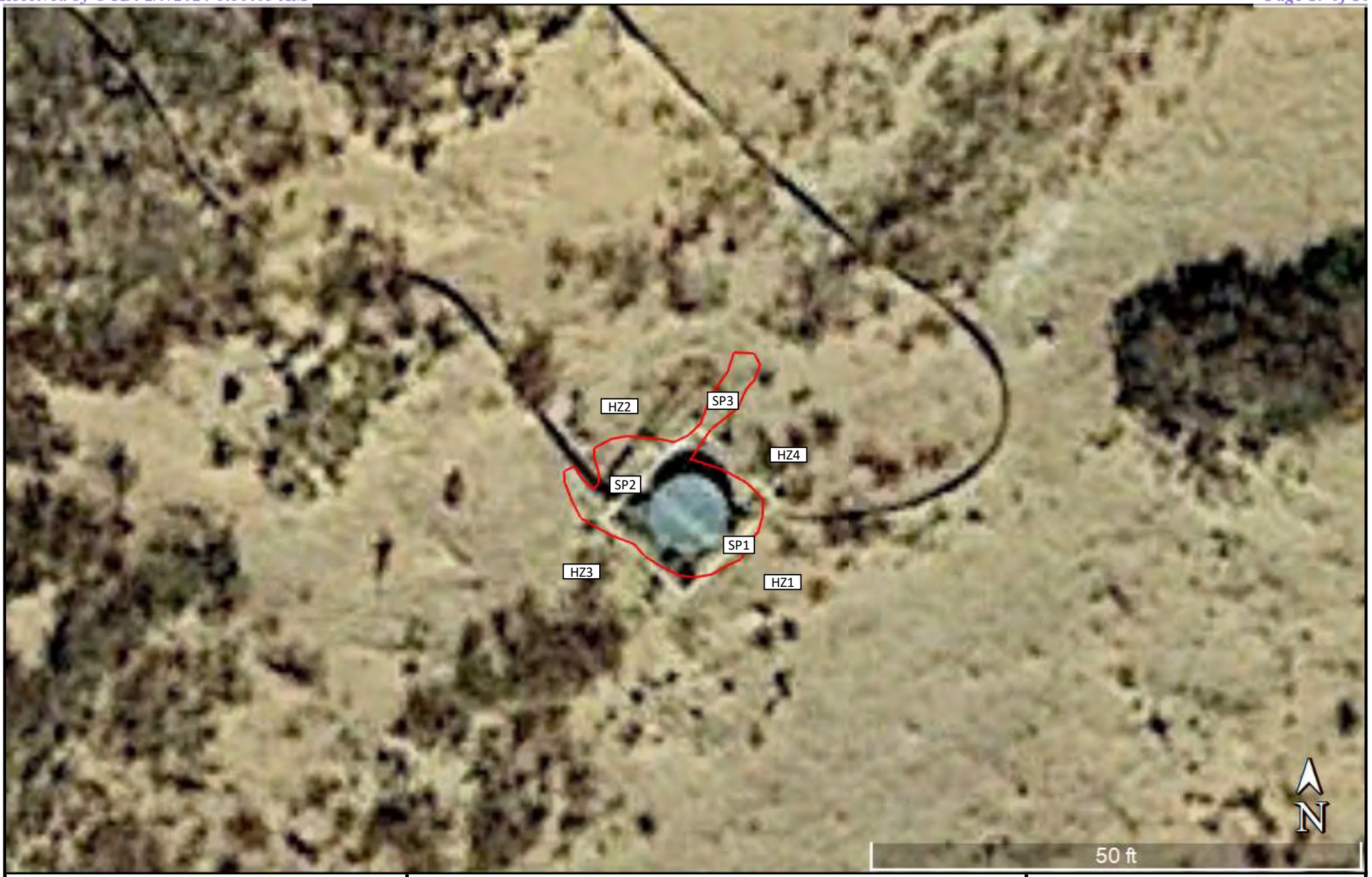


Figure 4

Delineation Sample Map
Spur Energy Partners, LLC
Mack Tomano Tin Horn
GPS: 32.79061, -103.82427
Eddy County

Legend:

Release Area

SP1 Delineation Sample Location

Drafted: bw
Checked: dd
Date: 9/8/23

HUNGRY HORSE ENVIRONMENTAL & CONSTRUCTION

Figure 5
Excavation Sample Map
Spur Energy Partners, LLC
Mack Tomano Tin Horn
GPS: 32.79061, -103.82427
Eddy County

Legend:
Excavated Area
FL1 Composite Confirmation Sample Location

Drafted: dd
Checked: bw
Date: 1/24/24

HUNGRY HORSE ENVIRONMENTAL & CONSTRUCTION

Table

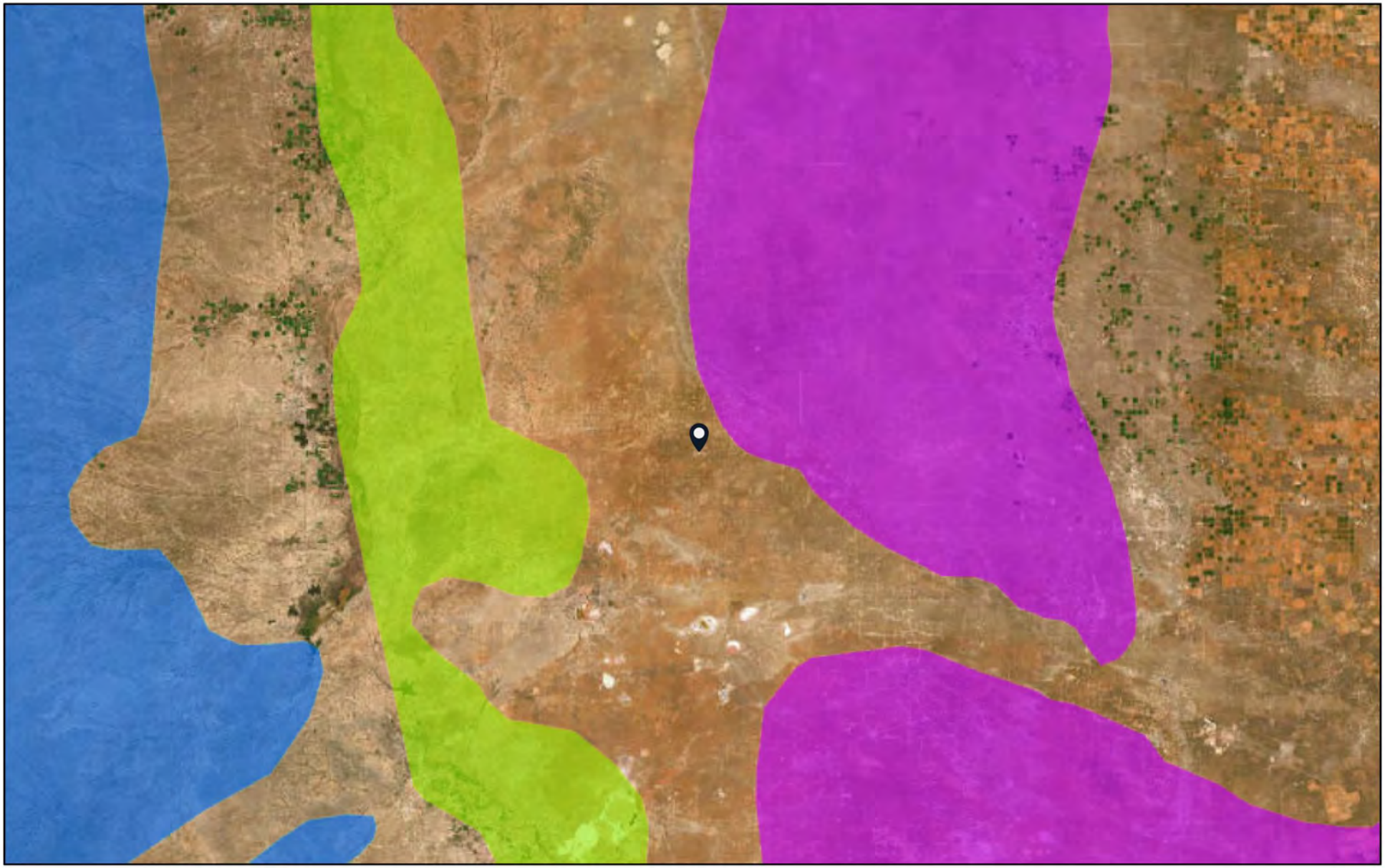
TABLE 1
Summary of Soil Sample Laboratory Analytical Results
Spur Energy Partners, LLC
Mack Tomano Tin Horn
NMOCD Ref. #: nAPP2324835257

Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C_6-C_{10} (mg/kg)	DRO C_{10}-C_{28} (mg/kg)	GRO + DRO C_6-C_{28} (mg/kg)	ORO C_{28}-C_{36} (mg/kg)	TPH C_6-C_{36} (mg/kg)	Chloride (mg/kg)
SP1	10/5/23	Surf	Excavated	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/23	4	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SP2	10/5/23	Surf	Excavated	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/23	2	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SP3	10/5/23	Surf	Excavated	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/23	2	Excavated	ND	ND	ND	ND	ND	126	**126**	ND
HZ1	10/5/23	Surf	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/23	1	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
HZ2	10/5/23	Surf	Excavated	ND	ND	ND	3,920	3,920	5,150	**9,070**	ND
	10/5/23	1	Excavated	ND	ND	ND	1,470	1,470	1,600	**3,070**	ND
HZ3	10/5/23	Surf	In-Situ	ND	ND	ND	ND	ND	63.9	63.9	ND
	10/5/23	1	In-Situ	ND	ND	ND	ND	ND	53.7	53.7	ND
HZ4	10/5/23	Surf	Excavated	ND	ND	ND	119	119	121	**240**	ND
	10/5/23	1	Excavated	ND	ND	ND	103	103	249	**352**	ND
FL1	1/24/24	4	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL2	1/24/24	2	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL3	1/24/24	2	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SW1	1/24/24	2	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SW2	1/24/24	1	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SW3	1/24/24	1	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, Wetland, and Soil Maps

Mack Tomano Tin Horn



9/29/2023

Karst Type

- Carbonate
- Erosional
- Gypsum
- Volcanic
- World Imagery

Low Resolution 15m Imagery

High Resolution 60cm Imagery

High Resolution 30cm Imagery

Citations

150m Resolution Metadata

1:876,317

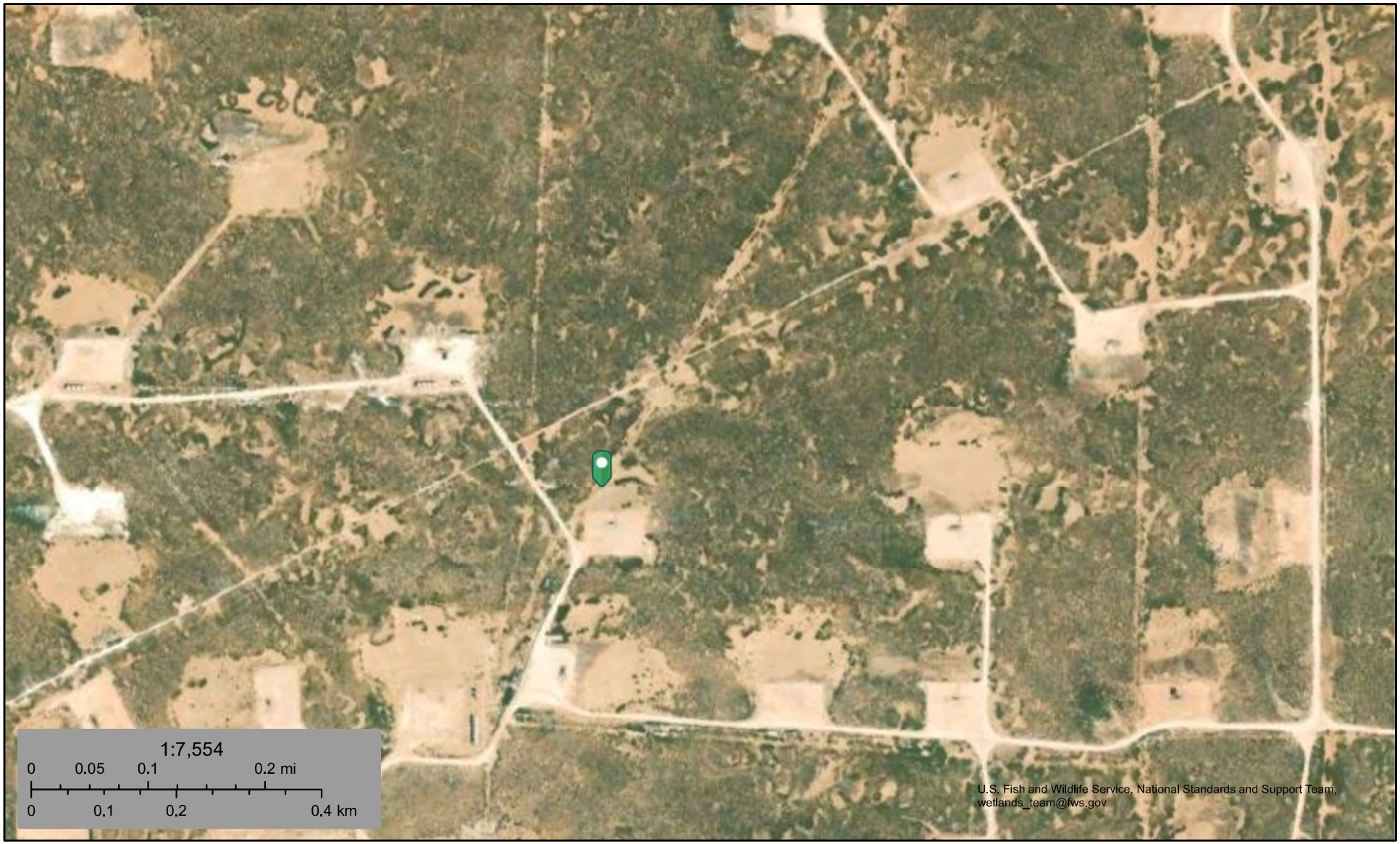
0 5 10 20 mi

0 10 20 40 km

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

U.S. Fish and Wildlife Service
National Wetlands Inventory

Mack Tomano Tin Horn



September 29, 2023

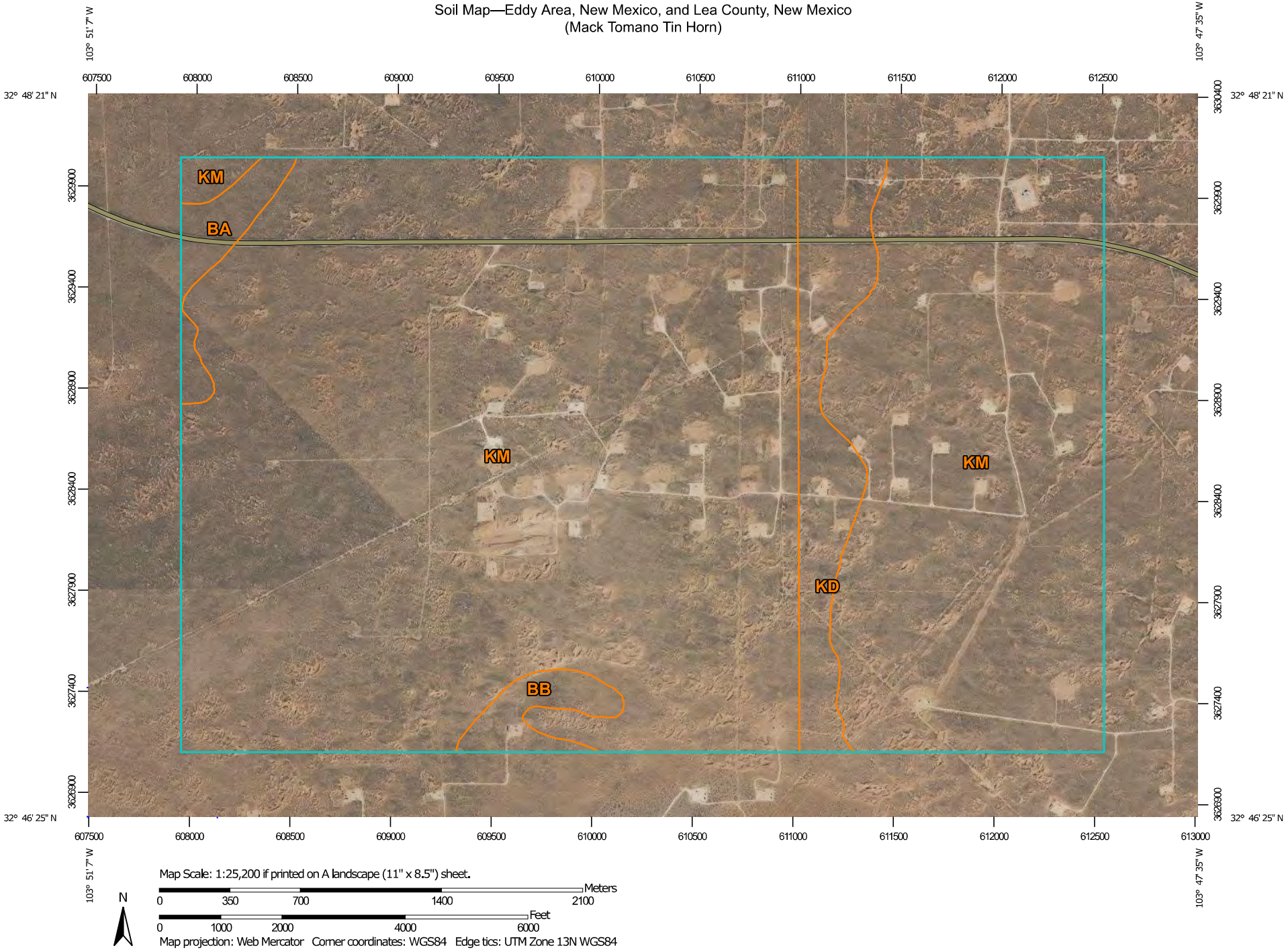
Wetlands

- 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.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Soil Map—Eddy Area, New Mexico, and Lea County, New Mexico
(Mack Tomano Tin Horn)



Received by OCD: 2/9/2024 8:35:03 AM

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 18, Sep 8, 2022

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 19, Sep 8, 2022

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Released to Imaging: 4/11/2024 2:35:07 PM

Released to Imaging: 4/11/2024 2:35:07 PM
Received by OCD: 2/9/2024 8:35:03 AM

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BA	Berino loamy fine sand, 0 to 3 percent slopes	51.5	1.5%
BB	Berino complex, 0 to 3 percent slopes, eroded	46.8	1.4%
KM	Kermit-Berino fine sands, 0 to 3 percent slopes	2,141.4	64.0%
Subtotals for Soil Survey Area		**2,239.8**	**66.9%**
Totals for Area of Interest		**3,348.2**	**100.0%**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KD	Kermit-Palomas fine sands, 0 to 12 percent slopes	183.8	5.5%
KM	Kermit soils and Dune land, 0 to 12 percent slopes	924.4	27.6%
Subtotals for Soil Survey Area		**1,108.2**	**33.1%**
Totals for Area of Interest		**3,348.2**	**100.0%**

Page 28 of 100

Eddy Area, New Mexico

KM—Kermit-Berino fine sands, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w4q
Elevation: 3,100 to 4,200 feet
Mean annual precipitation: 10 to 14 inches
Mean annual air temperature: 60 to 64 degrees F
Frost-free period: 190 to 230 days
Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 50 percent
Berino and similar soils: 35 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landform: Plains, alluvial fans
Landform position (three-dimensional): Talf, rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 7 inches: fine sand
H2 - 7 to 60 inches: fine sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R070BD005NM - Deep Sand
Hydric soil rating: No

Received by OCD: 2/9/2024 8:35:03 AM

Description of Berino

Setting

Landform: Plains, fan piedmonts
Landform position (three-dimensional): Riser
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand
H2 - 17 to 50 inches: fine sandy loam
H3 - 50 to 58 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Active dune land

Percent of map unit: 15 percent
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 18, Sep 8, 2022

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 19, Sep 8, 2022

Released to Imaging: 4/11/2024 2:35:07 PM

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

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 305480
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2324835257**
Incident Name	**NAPP2324835257 MACK TOMANO TIN HORN @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**MACK TOMANO TIN HORN**
Date Release Discovered	**09/01/2023**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	600
What is the estimated number of samples that will be gathered	6
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/24/2024
Time sampling will commence	08:00 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	32.790610, -103.824270

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
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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 305480
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
kpurvis	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.	1/19/2024

Attachment III
Site Photographs

Photographs

Photo: 1	Description: Release area

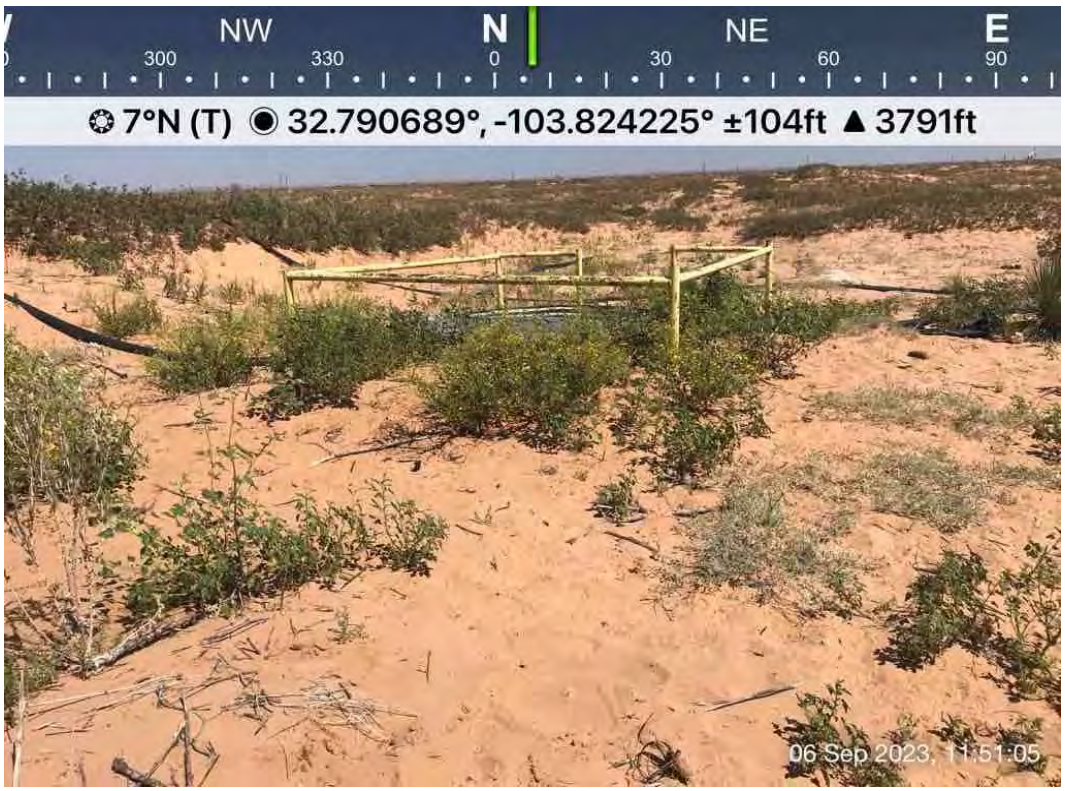

Photo: 2	Description: Release area

Photographs

Photo: 3	Description: Excavation

Photo: 4	Description: Excavation

Photographs

Photo: 5	Description: Backfilling

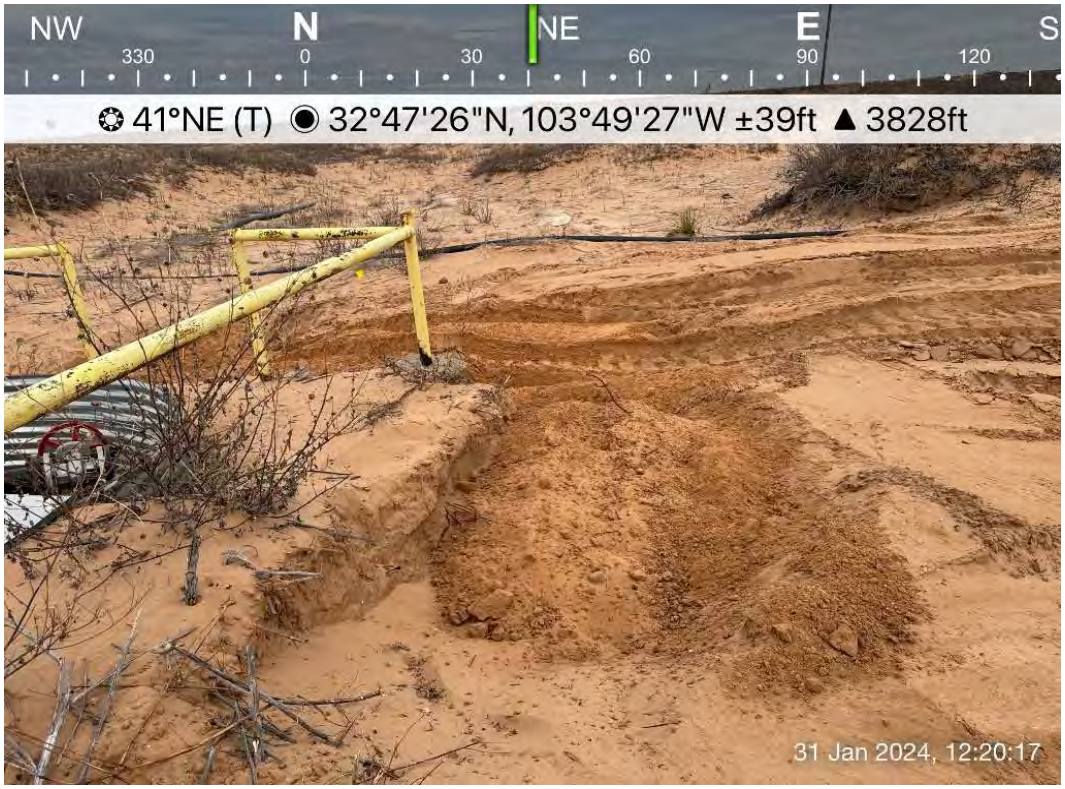

Photo: 6	Description: Backfilling

Photographs

Photo: 7	Description: Backfilled

Photo: 8	Description: Backfilled

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): 610093.72 **Northing (Y):** 3628686.14 **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.

Attachment V
Field Data

Sample Log

Hungry Horse, LLC

Project: Mack Tomano Tin Horn

Karst: **No** Water: **<50**

Standard: TPH 100mg/kg, Chloride 600mg/kg

Date: 09-29-2023

GPS: 32.79061, -103.82427

Sampler: Jerry Heidelberg

Sample ID	Depth	PID/Odor	Chloride	GPS
HZ1	Surf		1.4@29 X4 = 116	
	1'		0.8 > 100	
HZ2	Surf		0.16 > 100	
	3'		0.6 > 100	
HZ3	Surf		1.2 > 100	
	1'		1.2 > 100	
HZ4	Surf		0.16 > 100	
	1'		0.16 > 100	
SP1	Surf	High	0.4 > 100	
	1'	High	0.0 > 100	
	2'	High	0.16 > 100	
	3'	High	0.16 > 100	
	4'	High	0.2 > 100	
SP2	Surf		0.16 > 100	
	1'		1.2 @ > 100	
	2'		1.2 > 100	
	3'		1.8 @ 41 X4 = 164	
	4'		0.2 > 100	
SP3	Surf	No	1.2 > 100	
	1'	Smoggy	1.2 > 100	
	2'	No	1.2 > 100	
	3'	No	1.2 > 100	
	4'	No	1.2 > 100	

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

Attachment VI
Laboratory Analytical Reports

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:	Mack Tomano Tin Horn
Work Order:	E310051
Job Number:	21068-0001
Received:	10/9/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/13/23

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: 10/13/23

Bradley Wells
PO Box 1058
Houston, TX 77279

Project Name: Mack Tomano Tin Horn
Workorder: E310051
Date Received: 10/9/2023 8:25:00AM

Bradley Wells,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/9/2023 8:25:00AM, under the Project Name: Mack Tomano Tin Horn.

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

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

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

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

Respectfully,

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

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

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

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Office: 505-421-LABS(5227)
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Table of Contents (continued)

Sample Summary

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	**Reported:**
PO Box 1058	Project Number:	21068-0001	
Houston TX, 77279	Project Manager:	Bradley Wells	10/13/23 12:45

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1 Surf	E310051-01A	Soil	10/05/23	10/09/23	Glass Jar, 2 oz.
SP1 4'	E310051-02A	Soil	10/05/23	10/09/23	Glass Jar, 2 oz.
SP2 Surf	E310051-03A	Soil	10/05/23	10/09/23	Glass Jar, 2 oz.
SP2 2'	E310051-04A	Soil	10/05/23	10/09/23	Glass Jar, 2 oz.
SP3 Surf	E310051-05A	Soil	10/05/23	10/09/23	Glass Jar, 2 oz.
SP3 2'	E310051-06A	Soil	10/05/23	10/09/23	Glass Jar, 2 oz.
HZ1 Surf	E310051-07A	Soil	10/05/23	10/09/23	Glass Jar, 2 oz.
HZ1 1'	E310051-08A	Soil	10/05/23	10/09/23	Glass Jar, 2 oz.
HZ2 Surf	E310051-09A	Soil	10/05/23	10/09/23	Glass Jar, 2 oz.
HZ2 1'	E310051-10A	Soil	10/05/23	10/09/23	Glass Jar, 2 oz.
HZ3 Surf	E310051-11A	Soil	10/05/23	10/09/23	Glass Jar, 2 oz.
HZ3 1'	E310051-12A	Soil	10/05/23	10/09/23	Glass Jar, 2 oz.
HZ4 Surf	E310051-13A	Soil	10/05/23	10/09/23	Glass Jar, 2 oz.
HZ4 1'	E310051-14A	Soil	10/05/23	10/09/23	Glass Jar, 2 oz.

Sample Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	
PO Box 1058	Project Number:	21068-0001	**Reported:**
Houston TX, 77279	Project Manager:	Bradley Wells	10/13/2023 12:45:12PM

SP1 Surf

E310051-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Benzene	ND	0.0250	1	10/09/23	10/11/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/11/23	
Toluene	ND	0.0250	1	10/09/23	10/11/23	
o-Xylene	ND	0.0250	1	10/09/23	10/11/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/11/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*91.2 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.5 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2341036
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/23	10/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/23	10/10/23	
Surrogate: n-Nonane		*85.1 %*	*50-200*	*10/10/23*	*10/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2341019
Chloride	ND	20.0	1	10/09/23	10/12/23	

Sample Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	
PO Box 1058	Project Number:	21068-0001	**Reported:**
Houston TX, 77279	Project Manager:	Bradley Wells	10/13/2023 12:45:12PM

SP1 4'

E310051-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Benzene	ND	0.0250	1	10/09/23	10/11/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/11/23	
Toluene	ND	0.0250	1	10/09/23	10/11/23	
o-Xylene	ND	0.0250	1	10/09/23	10/11/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/11/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*90.5 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.5 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2341036
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/23	10/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/23	10/10/23	
Surrogate: n-Nonane		*89.8 %*	*50-200*	*10/10/23*	*10/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2341019
Chloride	ND	20.0	1	10/09/23	10/12/23	

Sample Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	
PO Box 1058	Project Number:	21068-0001	**Reported:**
Houston TX, 77279	Project Manager:	Bradley Wells	10/13/2023 12:45:12PM

SP2 Surf

E310051-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Benzene	ND	0.0250	1	10/09/23	10/11/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/11/23	
Toluene	ND	0.0250	1	10/09/23	10/11/23	
o-Xylene	ND	0.0250	1	10/09/23	10/11/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/11/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*90.2 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.2 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2341036
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/23	10/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/23	10/10/23	
Surrogate: n-Nonane		*90.7 %*	*50-200*	*10/10/23*	*10/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2341019
Chloride	ND	20.0	1	10/09/23	10/12/23	

Sample Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	
PO Box 1058	Project Number:	21068-0001	**Reported:**
Houston TX, 77279	Project Manager:	Bradley Wells	10/13/2023 12:45:12PM

SP2 2'

E310051-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Benzene	ND	0.0250	1	10/09/23	10/11/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/11/23	
Toluene	ND	0.0250	1	10/09/23	10/11/23	
o-Xylene	ND	0.0250	1	10/09/23	10/11/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/11/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*91.5 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.6 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2341036
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/23	10/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/23	10/10/23	
Surrogate: n-Nonane		*85.0 %*	*50-200*	*10/10/23*	*10/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2341019
Chloride	ND	20.0	1	10/09/23	10/12/23	

Sample Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	
PO Box 1058	Project Number:	21068-0001	**Reported:**
Houston TX, 77279	Project Manager:	Bradley Wells	10/13/2023 12:45:12PM

SP3 Surf

E310051-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Benzene	ND	0.0250	1	10/09/23	10/11/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/11/23	
Toluene	ND	0.0250	1	10/09/23	10/11/23	
o-Xylene	ND	0.0250	1	10/09/23	10/11/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/11/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.2 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.7 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2341036
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/23	10/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/23	10/10/23	
Surrogate: n-Nonane		*87.1 %*	*50-200*	*10/10/23*	*10/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2341019
Chloride	ND	20.0	1	10/09/23	10/12/23	

Sample Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	
PO Box 1058	Project Number:	21068-0001	**Reported:**
Houston TX, 77279	Project Manager:	Bradley Wells	10/13/2023 12:45:12PM

SP3 2'

E310051-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Benzene	ND	0.0250	1	10/09/23	10/11/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/11/23	
Toluene	ND	0.0250	1	10/09/23	10/11/23	
o-Xylene	ND	0.0250	1	10/09/23	10/11/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/11/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*90.9 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.1 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2341036
Diesel Range Organics (C10-C28)	ND	50.0	2	10/10/23	10/10/23	
Oil Range Organics (C28-C36)	**126**	100	2	10/10/23	10/10/23	
Surrogate: n-Nonane		*81.7 %*	*50-200*	*10/10/23*	*10/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2341019
Chloride	ND	20.0	1	10/09/23	10/12/23	

Sample Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	
PO Box 1058	Project Number:	21068-0001	**Reported:**
Houston TX, 77279	Project Manager:	Bradley Wells	10/13/2023 12:45:12PM

HZ1 Surf

E310051-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Benzene	ND	0.0250	1	10/09/23	10/11/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/11/23	
Toluene	ND	0.0250	1	10/09/23	10/11/23	
o-Xylene	ND	0.0250	1	10/09/23	10/11/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/11/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*91.3 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.8 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2341036
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/23	10/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/23	10/10/23	
Surrogate: n-Nonane		*86.0 %*	*50-200*	*10/10/23*	*10/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2341019
Chloride	ND	20.0	1	10/09/23	10/12/23	

Sample Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	
PO Box 1058	Project Number:	21068-0001	**Reported:**
Houston TX, 77279	Project Manager:	Bradley Wells	10/13/2023 12:45:12PM

HZ1 1'

E310051-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Benzene	ND	0.0250	1	10/09/23	10/11/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/11/23	
Toluene	ND	0.0250	1	10/09/23	10/11/23	
o-Xylene	ND	0.0250	1	10/09/23	10/11/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/11/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.1 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.5 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2341036
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/23	10/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/23	10/10/23	
Surrogate: n-Nonane		*84.8 %*	*50-200*	*10/10/23*	*10/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2341019
Chloride	ND	20.0	1	10/09/23	10/12/23	

Sample Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	
PO Box 1058	Project Number:	21068-0001	**Reported:**
Houston TX, 77279	Project Manager:	Bradley Wells	10/13/2023 12:45:12PM

HZ2 Surf

E310051-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Benzene	ND	0.0250	1	10/09/23	10/11/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/11/23	
Toluene	ND	0.0250	1	10/09/23	10/11/23	
o-Xylene	ND	0.0250	1	10/09/23	10/11/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/11/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*90.2 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.1 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2341036
Diesel Range Organics (C10-C28)	**3920**	125	5	10/10/23	10/10/23	
Oil Range Organics (C28-C36)	**5150**	250	5	10/10/23	10/10/23	
Surrogate: n-Nonane		*90.4 %*	*50-200*	*10/10/23*	*10/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2341019
Chloride	ND	20.0	1	10/09/23	10/12/23	

Sample Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	
PO Box 1058	Project Number:	21068-0001	**Reported:**
Houston TX, 77279	Project Manager:	Bradley Wells	10/13/2023 12:45:12PM

HZ2 1'

E310051-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Benzene	ND	0.0250	1	10/09/23	10/11/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/11/23	
Toluene	ND	0.0250	1	10/09/23	10/11/23	
o-Xylene	ND	0.0250	1	10/09/23	10/11/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/11/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.6 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.9 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2341036
Diesel Range Organics (C10-C28)	**1470**	250	10	10/10/23	10/11/23	
Oil Range Organics (C28-C36)	**1600**	500	10	10/10/23	10/11/23	
Surrogate: n-Nonane		*84.3 %*	*50-200*	*10/10/23*	*10/11/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2341019
Chloride	ND	20.0	1	10/09/23	10/12/23	

Sample Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	
PO Box 1058	Project Number:	21068-0001	**Reported:**
Houston TX, 77279	Project Manager:	Bradley Wells	10/13/2023 12:45:12PM

HZ3 Surf

E310051-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Benzene	ND	0.0250	1	10/09/23	10/11/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/11/23	
Toluene	ND	0.0250	1	10/09/23	10/11/23	
o-Xylene	ND	0.0250	1	10/09/23	10/11/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/11/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.6 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.1 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2341036
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/23	10/11/23	
Oil Range Organics (C28-C36)	**63.9**	50.0	1	10/10/23	10/11/23	
Surrogate: n-Nonane		*87.3 %*	*50-200*	*10/10/23*	*10/11/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2341019
Chloride	ND	20.0	1	10/09/23	10/12/23	

Sample Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	
PO Box 1058	Project Number:	21068-0001	**Reported:**
Houston TX, 77279	Project Manager:	Bradley Wells	10/13/2023 12:45:12PM

HZ3 1'

E310051-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Benzene	ND	0.0250	1	10/09/23	10/11/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/11/23	
Toluene	ND	0.0250	1	10/09/23	10/11/23	
o-Xylene	ND	0.0250	1	10/09/23	10/11/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/11/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.9 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.5 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2341036
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/23	10/11/23	
Oil Range Organics (C28-C36)	**53.7**	50.0	1	10/10/23	10/11/23	
Surrogate: n-Nonane		*86.6 %*	*50-200*	*10/10/23*	*10/11/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2341019
Chloride	ND	20.0	1	10/09/23	10/12/23	

Sample Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	
PO Box 1058	Project Number:	21068-0001	**Reported:**
Houston TX, 77279	Project Manager:	Bradley Wells	10/13/2023 12:45:12PM

HZ4 Surf

E310051-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Benzene	ND	0.0250	1	10/09/23	10/11/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/11/23	
Toluene	ND	0.0250	1	10/09/23	10/11/23	
o-Xylene	ND	0.0250	1	10/09/23	10/11/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/11/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.2 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.4 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2341036
Diesel Range Organics (C10-C28)	**119**	25.0	1	10/10/23	10/11/23	
Oil Range Organics (C28-C36)	**121**	50.0	1	10/10/23	10/11/23	
Surrogate: n-Nonane		*84.0 %*	*50-200*	*10/10/23*	*10/11/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2341019
Chloride	ND	20.0	1	10/09/23	10/12/23	

Sample Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	
PO Box 1058	Project Number:	21068-0001	**Reported:**
Houston TX, 77279	Project Manager:	Bradley Wells	10/13/2023 12:45:12PM

HZ4 1'

E310051-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Benzene	ND	0.0250	1	10/09/23	10/11/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/11/23	
Toluene	ND	0.0250	1	10/09/23	10/11/23	
o-Xylene	ND	0.0250	1	10/09/23	10/11/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/11/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.7 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2341011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.3 %*	*70-130*	*10/09/23*	*10/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2341036
Diesel Range Organics (C10-C28)	**103**	50.0	2	10/10/23	10/11/23	
Oil Range Organics (C28-C36)	**249**	100	2	10/10/23	10/11/23	
Surrogate: n-Nonane		*85.7 %*	*50-200*	*10/10/23*	*10/11/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2341019
Chloride	ND	20.0	1	10/09/23	10/12/23	

QC Summary Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	**Reported:**
PO Box 1058	Project Number:	21068-0001	
Houston TX, 77279	Project Manager:	Bradley Wells	10/13/2023 12:45:12PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2341011-BLK1)									Prepared: 10/09/23 Analyzed: 10/11/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.64*		*8.00*		*95.6*	*70-130*			
LCS (2341011-BS1)									Prepared: 10/09/23 Analyzed: 10/11/23
Benzene	4.43	0.0250	5.00		88.6	70-130			
Ethylbenzene	4.24	0.0250	5.00		84.7	70-130			
Toluene	4.42	0.0250	5.00		88.4	70-130			
o-Xylene	4.41	0.0250	5.00		88.2	70-130			
p,m-Xylene	8.77	0.0500	10.0		87.7	70-130			
Total Xylenes	13.2	0.0250	15.0		87.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.62*		*8.00*		*95.2*	*70-130*			
Matrix Spike (2341011-MS1)				**Source: E310051-05**					Prepared: 10/09/23 Analyzed: 10/11/23
Benzene	4.75	0.0250	5.00	ND	95.0	54-133			
Ethylbenzene	4.55	0.0250	5.00	ND	91.1	61-133			
Toluene	4.74	0.0250	5.00	ND	94.8	61-130			
o-Xylene	4.70	0.0250	5.00	ND	94.1	63-131			
p,m-Xylene	9.43	0.0500	10.0	ND	94.3	63-131			
Total Xylenes	14.1	0.0250	15.0	ND	94.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.67*		*8.00*		*95.9*	*70-130*			
Matrix Spike Dup (2341011-MSD1)				**Source: E310051-05**					Prepared: 10/09/23 Analyzed: 10/11/23
Benzene	4.57	0.0250	5.00	ND	91.4	54-133	3.81	20	
Ethylbenzene	4.38	0.0250	5.00	ND	87.6	61-133	3.92	20	
Toluene	4.56	0.0250	5.00	ND	91.2	61-130	3.87	20	
o-Xylene	4.52	0.0250	5.00	ND	90.4	63-131	3.98	20	
p,m-Xylene	9.05	0.0500	10.0	ND	90.5	63-131	4.07	20	
Total Xylenes	13.6	0.0250	15.0	ND	90.5	63-131	4.04	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.61*		*8.00*		*95.2*	*70-130*			

QC Summary Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	**Reported:**
PO Box 1058	Project Number:	21068-0001	
Houston TX, 77279	Project Manager:	Bradley Wells	10/13/2023 12:45:12PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2341011-BLK1)									Prepared: 10/09/23 Analyzed: 10/11/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.29*		*8.00*		*91.2*	*70-130*			
LCS (2341011-BS2)									Prepared: 10/09/23 Analyzed: 10/11/23
Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.31*		*8.00*		*91.4*	*70-130*			
Matrix Spike (2341011-MS2)				**Source: E310051-05**					Prepared: 10/09/23 Analyzed: 10/11/23
Gasoline Range Organics (C6-C10)	43.0	20.0	50.0	ND	86.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.32*		*8.00*		*91.5*	*70-130*			
Matrix Spike Dup (2341011-MSD2)				**Source: E310051-05**					Prepared: 10/09/23 Analyzed: 10/11/23
Gasoline Range Organics (C6-C10)	43.2	20.0	50.0	ND	86.3	70-130	0.369	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.37*		*8.00*		*92.1*	*70-130*			

QC Summary Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	**Reported:**
PO Box 1058	Project Number:	21068-0001	
Houston TX, 77279	Project Manager:	Bradley Wells	10/13/2023 12:45:12PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2341036-BLK1)									Prepared: 10/10/23 Analyzed: 10/10/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*43.9*		*50.0*		*87.7*	*50-200*			
LCS (2341036-BS1)									Prepared: 10/10/23 Analyzed: 10/10/23
Diesel Range Organics (C10-C28)	217	25.0	250		86.6	38-132			
Surrogate: n-Nonane	*44.4*		*50.0*		*88.8*	*50-200*			
Matrix Spike (2341036-MS1)				**Source: E310051-02**					Prepared: 10/10/23 Analyzed: 10/10/23
Diesel Range Organics (C10-C28)	218	25.0	250	ND	87.2	38-132			
Surrogate: n-Nonane	*43.2*		*50.0*		*86.4*	*50-200*			
Matrix Spike Dup (2341036-MSD1)				**Source: E310051-02**					Prepared: 10/10/23 Analyzed: 10/10/23
Diesel Range Organics (C10-C28)	214	25.0	250	ND	85.6	38-132	1.78	20	
Surrogate: n-Nonane	*44.2*		*50.0*		*88.3*	*50-200*			

QC Summary Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	**Reported:**
PO Box 1058	Project Number:	21068-0001	
Houston TX, 77279	Project Manager:	Bradley Wells	10/13/2023 12:45:12PM

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 (2341019-BLK1)									Prepared: 10/09/23 Analyzed: 10/11/23
Chloride	ND	20.0							
LCS (2341019-BS1)									Prepared: 10/09/23 Analyzed: 10/11/23
Chloride	244	20.0	250		97.5	90-110			
Matrix Spike (2341019-MS1)				**Source: E310050-21**					Prepared: 10/09/23 Analyzed: 10/11/23
Chloride	343	20.0	250	90.8	101	80-120			
Matrix Spike Dup (2341019-MSD1)				**Source: E310050-21**					Prepared: 10/09/23 Analyzed: 10/11/23
Chloride	338	20.0	250	90.8	99.1	80-120	1.27	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:	Mack Tomano Tin Horn	
PO Box 1058	Project Number:	21068-0001	**Reported:**
Houston TX, 77279	Project Manager:	Bradley Wells	10/13/23 12:45

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.

Released to Imaging: 4/11/2024 2:35:07 PM
Received by OCD: 2/9/2024 8:35:03 AM

Project Information | Chain of Custody | Page 1 of 2

Client:	Spur
Project:	Mack Tomano Tin Horn
Project Manager:	Bradley Wells
Address:	4024 Plains Hwy
City, State, Zip:	Lovington, NM 88260, NM, 8826
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# E310051 | Job Number 21068.0001

TAT: 1D | 2D | 3D | Standard X

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	BGDOC NM	BGDOC TX	Remarks
	10/5/23	Soil	1	SP1	Surf	1	X		
	10/5/23	Soil	1	SP1	4'	2	X		
	10/5/23	Soil	1	SP2	Surf	3	X		
	10/5/23	Soil	1	SP2	2'	4	X		
	10/5/23	Soil	1	SP3	Surf	5	X		
	10/5/23	Soil	1	SP3	2'	6	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.

	Date	Time		Date	Time
Relinquished by: (Signature)	10/6/23	1310	Received by: (Signature)	10623	1310
Relinquished by: (Signature)	10-6-23	1730	Received by: (Signature)	10/6/23	1730
Relinquished by: (Signature)	10/6/23	11:11 pm	Received by: (Signature)	109.23	8:25

Lab Use Only
Received on ice: (Y) / N
T1 _____ T2 _____ T3 _____
AVG Temp °C 4

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

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

Note: Samples are discarded 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

Released to Imaging: 4/11/2024 2:35:07 PM
Received by OCD: 2/9/2024 8:35:03 AM

Project Information | Chain of Custody | Page 2 of 2

Client:	Spur
Project:	Mack Tomano Tin Horn
Project Manager:	Bradley Wells
Address:	4024 Plains Hwy
City, State, Zip:	Lovington, NM 88260, NM, 8826
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#	Job Number
E310051	21068.0001

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/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM	BGDOC TX			Remarks
	10/5/23	Soil	1	HZ1	Surf	H7									X				
	10/5/23	Soil	1	HZ1	1'	H8									X				
	10/5/23	Soil	1	HZ2	Surf	H9									X				
	10/5/23	Soil	1	HZ2	1'	H10									X				
	10/5/23	Soil	1	HZ3	Surf	H11									X				
	10/5/23	Soil	1	HZ3	1'	H12									X				
	10/5/23	Soil	1	HZ4	Surf	H13									X				
	10/5/23	Soil	1	HZ4	1'	H14									X				
						CM													

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
	10/6/23	1310		10.6.23	1310
	10.6.23	1730		10/6/23	1730
	10/6/23	11:11pm		10.9.23	8:25

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4

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

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

Note: Samples are discarded 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.

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Envirotech Analytical Laboratory

Printed: 10/9/2023 10:44:09AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Spur Energy Partners	Date Received:	10/09/23 08:25	Work Order ID:	E310051
Phone:	(832) 930-8546	Date Logged In:	10/06/23 16:40	Logged In By:	Caitlin Mars
Email:		Due Date:	10/13/23 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	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	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 filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Comments/Resolution

Time sampled not provided on COC per client.

Client Instruction

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:	Mack Tomano Tin Horn
Work Order:	E401155
Job Number:	21068-0001
Received:	1/25/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/26/24

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: 1/26/24

Bradley Wells
PO Box 1058
Houston, TX 77279

Project Name: Mack Tomano Tin Horn
Workorder: E401155
Date Received: 1/25/2024 12:23:00PM

Bradley Wells,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/25/2024 12:23:00PM, under the Project Name: Mack Tomano Tin Horn.

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

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

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

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

Respectfully,

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

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

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	**Reported:**
PO Box 1058	Project Number:	21068-0001	
Houston TX, 77279	Project Manager:	Bradley Wells	01/26/24 14:39

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FL1 4'	E401155-01A	Soil	01/24/24	01/25/24	Glass Jar, 2 oz.
FL2 2'	E401155-02A	Soil	01/24/24	01/25/24	Glass Jar, 2 oz.
FL3 2'	E401155-03A	Soil	01/24/24	01/25/24	Glass Jar, 2 oz.
SW1 2'	E401155-04A	Soil	01/24/24	01/25/24	Glass Jar, 2 oz.
SW2 1'	E401155-05A	Soil	01/24/24	01/25/24	Glass Jar, 2 oz.
SW3 1'	E401155-06A	Soil	01/24/24	01/25/24	Glass Jar, 2 oz.

Sample Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	
PO Box 1058	Project Number:	21068-0001	**Reported:**
Houston TX, 77279	Project Manager:	Bradley Wells	1/26/2024 2:39:15PM

FL1 4'

E401155-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2404041
Benzene	ND	0.0250	1	01/24/24	01/25/24	
Ethylbenzene	ND	0.0250	1	01/24/24	01/25/24	
Toluene	ND	0.0250	1	01/24/24	01/25/24	
o-Xylene	ND	0.0250	1	01/24/24	01/25/24	
p,m-Xylene	ND	0.0500	1	01/24/24	01/25/24	
Total Xylenes	ND	0.0250	1	01/24/24	01/25/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*01/24/24*	*01/25/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.3 %*	*70-130*	*01/24/24*	*01/25/24*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*01/24/24*	*01/25/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2404041
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/24	01/25/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*01/24/24*	*01/25/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.3 %*	*70-130*	*01/24/24*	*01/25/24*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*01/24/24*	*01/25/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2404047
Diesel Range Organics (C10-C28)	ND	25.0	1	01/25/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/25/24	01/25/24	
Surrogate: n-Nonane		*90.5 %*	*50-200*	*01/25/24*	*01/25/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2404044
Chloride	ND	20.0	1	01/25/24	01/25/24	

Sample Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	
PO Box 1058	Project Number:	21068-0001	**Reported:**
Houston TX, 77279	Project Manager:	Bradley Wells	1/26/2024 2:39:15PM

FL2 2'

E401155-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2404041
Benzene	ND	0.0250	1	01/24/24	01/25/24	
Ethylbenzene	ND	0.0250	1	01/24/24	01/25/24	
Toluene	ND	0.0250	1	01/24/24	01/25/24	
o-Xylene	ND	0.0250	1	01/24/24	01/25/24	
p,m-Xylene	ND	0.0500	1	01/24/24	01/25/24	
Total Xylenes	ND	0.0250	1	01/24/24	01/25/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*01/24/24*	*01/25/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.2 %*	*70-130*	*01/24/24*	*01/25/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*01/24/24*	*01/25/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2404041
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/24	01/25/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*01/24/24*	*01/25/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.2 %*	*70-130*	*01/24/24*	*01/25/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*01/24/24*	*01/25/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2404047
Diesel Range Organics (C10-C28)	ND	25.0	1	01/25/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/25/24	01/25/24	
Surrogate: n-Nonane		*95.5 %*	*50-200*	*01/25/24*	*01/25/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2404044
Chloride	ND	20.0	1	01/25/24	01/25/24	

Sample Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	
PO Box 1058	Project Number:	21068-0001	**Reported:**
Houston TX, 77279	Project Manager:	Bradley Wells	1/26/2024 2:39:15PM

FL3 2'

E401155-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2404041
Benzene	ND	0.0250	1	01/24/24	01/25/24	
Ethylbenzene	ND	0.0250	1	01/24/24	01/25/24	
Toluene	ND	0.0250	1	01/24/24	01/25/24	
o-Xylene	ND	0.0250	1	01/24/24	01/25/24	
p,m-Xylene	ND	0.0500	1	01/24/24	01/25/24	
Total Xylenes	ND	0.0250	1	01/24/24	01/25/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*01/24/24*	*01/25/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.5 %*	*70-130*	*01/24/24*	*01/25/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*01/24/24*	*01/25/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2404041
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/24	01/25/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*01/24/24*	*01/25/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.5 %*	*70-130*	*01/24/24*	*01/25/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*01/24/24*	*01/25/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2404047
Diesel Range Organics (C10-C28)	ND	25.0	1	01/25/24	01/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/25/24	01/26/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*01/25/24*	*01/26/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2404044
Chloride	ND	20.0	1	01/25/24	01/25/24	

Sample Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	
PO Box 1058	Project Number:	21068-0001	**Reported:**
Houston TX, 77279	Project Manager:	Bradley Wells	1/26/2024 2:39:15PM

SW1 2'

E401155-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2404041
Benzene	ND	0.0250	1	01/24/24	01/25/24	
Ethylbenzene	ND	0.0250	1	01/24/24	01/25/24	
Toluene	ND	0.0250	1	01/24/24	01/25/24	
o-Xylene	ND	0.0250	1	01/24/24	01/25/24	
p,m-Xylene	ND	0.0500	1	01/24/24	01/25/24	
Total Xylenes	ND	0.0250	1	01/24/24	01/25/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*01/24/24*	*01/25/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.5 %*	*70-130*	*01/24/24*	*01/25/24*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*01/24/24*	*01/25/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2404041
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/24	01/25/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*01/24/24*	*01/25/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.5 %*	*70-130*	*01/24/24*	*01/25/24*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*01/24/24*	*01/25/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2404047
Diesel Range Organics (C10-C28)	ND	25.0	1	01/25/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/25/24	01/25/24	
Surrogate: n-Nonane		*92.2 %*	*50-200*	*01/25/24*	*01/25/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2404044
Chloride	ND	20.0	1	01/25/24	01/25/24	

Sample Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	
PO Box 1058	Project Number:	21068-0001	**Reported:**
Houston TX, 77279	Project Manager:	Bradley Wells	1/26/2024 2:39:15PM

SW2 1'

E401155-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2404041
Benzene	ND	0.0250	1	01/24/24	01/25/24	
Ethylbenzene	ND	0.0250	1	01/24/24	01/25/24	
Toluene	ND	0.0250	1	01/24/24	01/25/24	
o-Xylene	ND	0.0250	1	01/24/24	01/25/24	
p,m-Xylene	ND	0.0500	1	01/24/24	01/25/24	
Total Xylenes	ND	0.0250	1	01/24/24	01/25/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*01/24/24*	*01/25/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.2 %*	*70-130*	*01/24/24*	*01/25/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*01/24/24*	*01/25/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2404041
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/24	01/25/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*01/24/24*	*01/25/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.2 %*	*70-130*	*01/24/24*	*01/25/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*01/24/24*	*01/25/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2404047
Diesel Range Organics (C10-C28)	ND	25.0	1	01/25/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/25/24	01/25/24	
Surrogate: n-Nonane		*96.7 %*	*50-200*	*01/25/24*	*01/25/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2404044
Chloride	ND	20.0	1	01/25/24	01/25/24	

Sample Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	
PO Box 1058	Project Number:	21068-0001	**Reported:**
Houston TX, 77279	Project Manager:	Bradley Wells	1/26/2024 2:39:15PM

SW3 1'

E401155-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2404041
Benzene	ND	0.0250	1	01/24/24	01/25/24	
Ethylbenzene	ND	0.0250	1	01/24/24	01/25/24	
Toluene	ND	0.0250	1	01/24/24	01/25/24	
o-Xylene	ND	0.0250	1	01/24/24	01/25/24	
p,m-Xylene	ND	0.0500	1	01/24/24	01/25/24	
Total Xylenes	ND	0.0250	1	01/24/24	01/25/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*01/24/24*	*01/25/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.0 %*	*70-130*	*01/24/24*	*01/25/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*01/24/24*	*01/25/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2404041
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/24/24	01/25/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*01/24/24*	*01/25/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.0 %*	*70-130*	*01/24/24*	*01/25/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*01/24/24*	*01/25/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2404047
Diesel Range Organics (C10-C28)	ND	25.0	1	01/25/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/25/24	01/25/24	
Surrogate: n-Nonane		*97.2 %*	*50-200*	*01/25/24*	*01/25/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2404044
Chloride	ND	20.0	1	01/25/24	01/25/24	

QC Summary Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	**Reported:**
PO Box 1058	Project Number:	21068-0001	
Houston TX, 77279	Project Manager:	Bradley Wells	1/26/2024 2:39:15PM

Volatile Organic Compounds by EPA 8260B

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2404041-BLK1)									Prepared: 01/24/24 Analyzed: 01/25/24
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	*0.482*		*0.500*		*96.4*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.516*		*0.500*		*103*	*70-130*			
Surrogate: Toluene-d8	*0.447*		*0.500*		*89.3*	*70-130*			
LCS (2404041-BS1)									Prepared: 01/24/24 Analyzed: 01/25/24
Benzene	2.90	0.0250	2.50		116	70-130			
Ethylbenzene	2.48	0.0250	2.50		99.1	70-130			
Toluene	2.43	0.0250	2.50		97.0	70-130			
o-Xylene	2.39	0.0250	2.50		95.7	70-130			
p,m-Xylene	4.69	0.0500	5.00		93.7	70-130			
Total Xylenes	7.08	0.0250	7.50		94.4	70-130			
Surrogate: Bromofluorobenzene	*0.490*		*0.500*		*98.0*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.513*		*0.500*		*103*	*70-130*			
Surrogate: Toluene-d8	*0.445*		*0.500*		*88.9*	*70-130*			
Matrix Spike (2404041-MS1)				**Source: E401150-01**					Prepared: 01/24/24 Analyzed: 01/25/24
Benzene	2.99	0.0250	2.50	ND	119	48-131			
Ethylbenzene	2.53	0.0250	2.50	ND	101	45-135			
Toluene	2.48	0.0250	2.50	ND	99.3	48-130			
o-Xylene	2.47	0.0250	2.50	ND	98.6	43-135			
p,m-Xylene	4.80	0.0500	5.00	ND	96.0	43-135			
Total Xylenes	7.26	0.0250	7.50	ND	96.9	43-135			
Surrogate: Bromofluorobenzene	*0.492*		*0.500*		*98.4*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.514*		*0.500*		*103*	*70-130*			
Surrogate: Toluene-d8	*0.442*		*0.500*		*88.4*	*70-130*			
Matrix Spike Dup (2404041-MSD1)				**Source: E401150-01**					Prepared: 01/24/24 Analyzed: 01/25/24
Benzene	2.96	0.0250	2.50	ND	118	48-131	1.01	23	
Ethylbenzene	2.49	0.0250	2.50	ND	99.8	45-135	1.57	27	
Toluene	2.42	0.0250	2.50	ND	97.0	48-130	2.40	24	
o-Xylene	2.43	0.0250	2.50	ND	97.0	43-135	1.68	27	
p,m-Xylene	4.73	0.0500	5.00	ND	94.5	43-135	1.51	27	
Total Xylenes	7.15	0.0250	7.50	ND	95.4	43-135	1.57	27	
Surrogate: Bromofluorobenzene	*0.488*		*0.500*		*97.5*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.527*		*0.500*		*105*	*70-130*			
Surrogate: Toluene-d8	*0.443*		*0.500*		*88.6*	*70-130*			

QC Summary Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	**Reported:**
PO Box 1058	Project Number:	21068-0001	
Houston TX, 77279	Project Manager:	Bradley Wells	1/26/2024 2:39:15PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2404041-BLK1)									Prepared: 01/24/24 Analyzed: 01/25/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.482*		*0.500*		*96.4*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.516*		*0.500*		*103*	*70-130*			
Surrogate: Toluene-d8	*0.447*		*0.500*		*89.3*	*70-130*			
LCS (2404041-BS2)									Prepared: 01/24/24 Analyzed: 01/25/24
Gasoline Range Organics (C6-C10)	43.1	20.0	50.0		86.2	70-130			
Surrogate: Bromofluorobenzene	*0.490*		*0.500*		*97.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.516*		*0.500*		*103*	*70-130*			
Surrogate: Toluene-d8	*0.447*		*0.500*		*89.3*	*70-130*			
Matrix Spike (2404041-MS2)				**Source: E401150-01**					Prepared: 01/24/24 Analyzed: 01/25/24
Gasoline Range Organics (C6-C10)	43.1	20.0	50.0	ND	86.2	70-130			
Surrogate: Bromofluorobenzene	*0.501*		*0.500*		*100*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.529*		*0.500*		*106*	*70-130*			
Surrogate: Toluene-d8	*0.445*		*0.500*		*88.9*	*70-130*			
Matrix Spike Dup (2404041-MSD2)				**Source: E401150-01**					Prepared: 01/24/24 Analyzed: 01/25/24
Gasoline Range Organics (C6-C10)	43.4	20.0	50.0	ND	86.8	70-130	0.644	20	
Surrogate: Bromofluorobenzene	*0.493*		*0.500*		*98.6*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.522*		*0.500*		*104*	*70-130*			
Surrogate: Toluene-d8	*0.448*		*0.500*		*89.5*	*70-130*			

QC Summary Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	**Reported:**
PO Box 1058	Project Number:	21068-0001	
Houston TX, 77279	Project Manager:	Bradley Wells	1/26/2024 2:39:15PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2404047-BLK1)									Prepared: 01/25/24 Analyzed: 01/26/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*54.4*		*50.0*		*109*	*50-200*			
LCS (2404047-BS1)									Prepared: 01/25/24 Analyzed: 01/26/24
Diesel Range Organics (C10-C28)	255	25.0	250		102	38-132			
Surrogate: n-Nonane	*59.6*		*50.0*		*119*	*50-200*			
Matrix Spike (2404047-MS1)				**Source: E401155-03**					Prepared: 01/25/24 Analyzed: 01/26/24
Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	38-132			
Surrogate: n-Nonane	*58.0*		*50.0*		*116*	*50-200*			
Matrix Spike Dup (2404047-MSD1)				**Source: E401155-03**					Prepared: 01/25/24 Analyzed: 01/26/24
Diesel Range Organics (C10-C28)	264	25.0	250	ND	106	38-132	1.77	20	
Surrogate: n-Nonane	*57.2*		*50.0*		*114*	*50-200*			

QC Summary Data

Spur Energy Partners	Project Name:	Mack Tomano Tin Horn	**Reported:**
PO Box 1058	Project Number:	21068-0001	
Houston TX, 77279	Project Manager:	Bradley Wells	1/26/2024 2:39:15PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2404044-BLK1)									Prepared: 01/25/24 Analyzed: 01/25/24
Chloride	ND	20.0							
LCS (2404044-BS1)									Prepared: 01/25/24 Analyzed: 01/25/24
Chloride	248	20.0	250		99.2	90-110			
Matrix Spike (2404044-MS1)				**Source: E401155-04**					Prepared: 01/25/24 Analyzed: 01/25/24
Chloride	248	20.0	250	ND	99.1	80-120			
Matrix Spike Dup (2404044-MSD1)				**Source: E401155-04**					Prepared: 01/25/24 Analyzed: 01/25/24
Chloride	249	20.0	250	ND	99.6	80-120	0.451	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:	Mack Tomano Tin Horn	
PO Box 1058	Project Number:	21068-0001	**Reported:**
Houston TX, 77279	Project Manager:	Bradley Wells	01/26/24 14:39

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

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

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

Released to Imaging: 4/11/2024 2:35:07 PM
Received by OCD: 2/9/2024 8:35:03 AM

Project Information | Chain of Custody | Page 1 of 1

Client:	Spur
Project:	Mack Tomano Tin Horn
Project Manager:	Bradley Wells
Address:	4024 Plains Hwy
City, State, Zip:	Lovington, NM 88260, NM, 8826
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# E401155 (E401155AP) | Job Number 21068-0001

TAT: 1D X | 2D | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	BGDOC NM	Remarks
	1/24/24	Soil	1	FL1	4'	1	X	
	1/24/24	Soil	1	FL2	2'	2	X	
	1/24/24	Soil	1	FL3	2'	3	X	
	1/24/24	Soil	1	SW1	2'	4	X	
	1/24/24	Soil	1	SW2	1'	5	X	
	1/24/24	Soil	1	SW3	1'	6	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
	1/24/24	1426	Michelle Campbell	1-24-24	1426
Michelle Campbell	1-24-24	1700		1-24-24	1715
	1-24-24	2300		1-25-24	12:23

Lab Use Only
Received on ice: (Y) N
T1 T2 T3
AVG Temp °C 4

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

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 1/25/2024 1:35:19PM

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:	01/25/24 12:23	Work Order ID:	E401155
Phone:	(832) 930-8546	Date Logged In:	01/24/24 16:53	Logged In By:	Alexa Michaels
Email:		Due Date:	01/25/24 17:00 (0 day TAT)		

Chain of Custody (COC)

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

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	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 filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Comments/Resolution

THE NAME OF WHO TOOK THE SAMPLE AND TIME SAMPLED WAS NOT LISTED ON THE COC BY THE CLIENT.

Client Instruction

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

envirotech Inc.

Attachment VII
NMSLO Sandy Sites Seed Mixture

NMSLO Seed Mix Deep Sand (DS)

SANDY (S) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Sand bluestem	Elida, VNS, So.	2.0	F
Little bluestem	Cimarron, Pastura	3.0	F
Black grama	VNS, Southern	1.0	D
Sand dropseed	VNS, Southern	4.0	S
Plains bristlegrass	VNS, Southern	2.0	D
Forbs:			
Firewheel (Gaillardia)	VNS, Southern	1.0	D
Annual Sunflower	VNS, Southern	1.0	D
Shrubs:			
Fourwing Saltbush	VNS, Southern	1.0	F
	Total PLS/acre	16.0	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box
VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at http://plants.usda.gov.

Attachment VIII
NMOCD Form Initial C-141

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

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

- ☐ The source of the release has been stopped.
- ☐ The impacted area has been secured to protect human health and the environment.
- ☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☐ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: _____ Title: _____

Signature: Kathy Purvis Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Shelly Wells Date: 9/7/2023

District I
1625 N. French Dr., Hobbs, NM 88240
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QUESTIONS

Action 312947

QUESTIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 312947
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2324835257**
Incident Name	**NAPP2324835257 MACK TOMANO TIN HORN @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	MACK TOMANO TIN HORN
Date Release Discovered	09/01/2023
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: High Line Pressure | Gasket | Produced Water | Released: 20 BBL | Recovered: 15 BBL | Lost: 5 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)	HIGH LINE PRESSURE CAUSED GASKET FAILURE

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QUESTIONS (continued)

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QUESTIONS

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

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	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: 02/09/2024

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QUESTIONS (continued)

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QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 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	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	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	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	0
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	01/18/2024
On what date will (or did) the final sampling or liner inspection occur	01/29/2024
On what date will (or was) the remediation complete(d)	01/31/2024
What is the estimated surface area (in square feet) that will be reclaimed	600
What is the estimated volume (in cubic yards) that will be reclaimed	36
What is the estimated surface area (in square feet) that will be remediated	600
What is the estimated volume (in cubic yards) that will be remediated	36
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

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QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 02/09/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

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

QUESTIONS

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

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QUESTIONS (continued)

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**305480**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**01/24/2024**
What was the (estimated) number of samples that were to be gathered	**6**
What was the sampling surface area in square feet	**600**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	600
What was the total volume (cubic yards) remediated	36
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	600
What was the total volume (in cubic yards) reclaimed	36
Summarize any additional remediation activities not included by answers (above)	n/a

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: 02/09/2024

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QUESTIONS (continued)

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QUESTIONS

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

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CONDITIONS

Action 312947

CONDITIONS

Operator:	OGRID:
Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	328947
	Action Number: 312947
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CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2324835257 MACK TOMANO TIN HORN, thank you. This Remediation Closure Report is approved.	4/11/2024