

Spill Volume(Bbls) Calculator		
<i>Inputs in blue, Outputs in red</i>		
Length(Ft)	Width(Ft)	Depth(In)
<u>90.000</u>	<u>52.000</u>	<u>1.000</u>
Cubic Feet Impacted		<u>390.000</u>
Barrels		<u>69.46</u>
Soil Type		Lined Containment
Bbls Assuming 100% Saturation		<u>69.46</u>
Saturation	Fluid present with shovel/backhoe	
Estimated Barrels Released		69.50000

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)	90
Width (ft)	52
Depth (in)	1.000









February 17, 2024

NMOCD District 2
Mike Bratcher
Artesia, NM 88210

Bureau of Land Management
Crisha Morgan
Carlsbad Field Office

Re: Site Assessment, Remediation, and Closure Request
Twelve Pack Fed Com LBB
API No. 30-015-40966
GPS: Latitude 32.86404 Longitude -104.01863
UL "E", Sec. 06, T17S, R30E
Eddy County, NM
NMOCD Ref. No. NRM1931853815

Paragon Environmental, LLC (Paragon) has been contracted by Spur Energy Partners (Spur) to perform a spill assessment, and conduct remediation activities for the release site known as the Twelve Pack Fed Com LBB (Twelve Pack). Details of the release are summarized below:

Release Details			
Type of Release:	Crude Oil / Produced Water	Volume of Release:	70 bbls
		Volume Recovered:	67 bbls
Source of Release:	Fire Tube	Date of Release:	10/6/2019
Was Immediate Notice Given?	Yes	If, Yes, to Whom?	Mike Bratcher, BLM
Was a Watercourse Reached?	No	If Yes, Volume Impacting Watercourse:	N/A
Surface Owner:	Federal	Mineral Owner:	Federal
The release was caused by a gasket failure on the fire tube.			

Topographical and Aerial Maps are provided in Figures #2 and #4.

REGULATORY FRAMEWORK & SITE CHARACTERIZATION

Surface impacts from unauthorized releases of fluids or gases are generally regulated by the New Mexico Oil Conservation Division (NMOCD) in accordance with 19.15.29 of the New Mexico Administrative Code (NMAC). 19.15.29 NMAC establishes reporting, site assessment/characterization, remediation, closure, variance, and enforcement procedures. Table I of 19.15.29.12 NMAC determines the closure criteria for soils impacted by a release based on depth to groundwater and the following characteristics:

- Depth to Groundwater in the affected area 26-50'
- Method to determine DTW NM OSE
- Did the release impact groundwater or surface water No

Depth to groundwater information is provided in Appendix A.

What are the minimum distances between the closest lateral extents of the release and the following surface areas:

- A Continuously flowing watercourse or any other significant watercourse- > 5 Mile
- Any lakebed, sinkhole, or playa lake- 1-5 mi
- An occupied permanent residence, school, hospital, institution, or church- 1-5 mi
- A spring or a private domestic fresh water well used by less than 5 households for domestic or stock watering purposes- 1-5 mi
- Any other fresh water well or spring- 1-5 mi
- Incorporated municipal boundaries or a defined municipal fresh water well field- 1-5 mi
- A wetland- 1-5 mi
- A subsurface mine- >5 mi
- An (non-karst) unstable area- 1-5mi
- Categorize the risk of this well/site being in a karst area geology- Medium
- A 100-year floodplain- 1-5 mi
- Did the release impact areas not on an exploration, development, production, or storage site- Yes

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Eolian and piedmont deposits (Holocene to middle Pleistocene)— Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits (QEP). The soil in this area is made up of Kermit-Berino Fine Sands, with 0 to 3 percent slopes, according to the United States Department of Agriculture Natural Resources Conservation Service. The drainage courses in this area are excessively drained.

The Soil Survey and FEMA Flood Map are provided in Appendix B. A Karst Map is provided in Figure #3.

INITIAL SITE ASSESSMENT

On August 21, 2022, Paragon conducted an initial site visit. This spill had been previously excavated by another company but was denied closure due to not fully removing the contaminated soils from what the other company labeled as SP-3. During the initial site visit, we flagged and placed a one-call to come back later and remove the 200 S/F area that was still contaminated.

A Site Map is provided in Figure #1.

REMEDIAL ACTIVITIES

On September 8, 2024, Paragon mobilized personnel and heavy equipment to conduct remedial activities. Based on the site characteristics and NMOCD rejected closure notes, the following details our remedial activities to advance the Release Site toward an NMOCD-approved site closure.

Our remediation began by excavating the SP-3 area down to 15' BGS, removing approximately 111 C/Y. The spill area was 200 S/F. Prior to obtaining confirmation samples, notification was submitted to the NMOCD. The bottom samples represented no more than 200 sq/ft, and the sidewall samples were obtained every 50 feet. The results of this sampling event are in the following data table.

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Sample Date 9-10-24		Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg				Closure Criteria ≤ 100 mg/kg	Closure Criteria ≤ 600 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
B - 1	15'	ND	ND	ND	ND	ND	0	112
ESW	15'	ND	ND	ND	ND	ND	0	128
NSW	15'	ND	ND	ND	ND	ND	0	160
SSW	15'	ND	ND	ND	ND	ND	0	112
WSW	15'	ND	ND	ND	ND	ND	0	112

(ND) Analyte Not Detected

Laboratory data is attached in Appendix D

On September 17, 2025, Paragon returned to the location and grabbed a composite sample of the backfill.

9-17-25 Composite Laboratory Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 50')								
Sample Date 9/17/24		Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg				Closure Criteria 100 mg/kg	Closure Criteria 600 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
Backfill	Comp	ND	ND	ND	ND	ND	ND	80

These laboratory analytical results showed that the confirmation soil samples were below NMOCD Closure Criteria. The excavated soils were loaded into trucks and transported to Lea Land, an NMOCD-approved waste disposal facility. After receiving laboratory analytical results below the closure criteria, the excavated areas were backfilled with “like” material obtained from a localized sand pit. The affected area was then contoured and machine-compacted to match the surrounding grade.

CLOSURE REQUEST

After careful review, Paragon requests that the incident, nRM1931853815, be closed. Spur has complied with the applicable closure requirements outlined in rule 19.15.19.12 NMAC.

If you have any questions or need additional information, please get in touch with Tristan Jones by phone at (575)318-6841 or email at tristan@paragonenvironmental.net.

Respectfully,



Tristan Jones
Project Coordinator
Paragon Environmental, LLC



Chris Jones
Environmental Professional
Paragon Environmental, LLC



Attachments

Figures:

- 1- Site Map
- 2- Topographic Map
- 3- Karst Map
- 4- Aerial Map
- 5- Confirmation Sample Maps

Appendices:

- Appendix A- Referenced Water Surveys
- Appendix B- Soil Survey and FEMA Flood Map
- Appendix C- Email Notification & Photographic Documentation
- Appendix D- Laboratory Reports
- Appendix E- Previously Submitted Closure Report






Figures:

- 1- Site Map
- 2- Topo Map
- 3- Karst Map
- 4- Wetlands Map
- 5- Confirmation Map

Twelve Pack Fed Com LBB
AP# 30-015-40966
Eddy County, NM
Site Map

Legend

-  32.86404,-104.01863
-  Twelve Pack Fed Com LBB

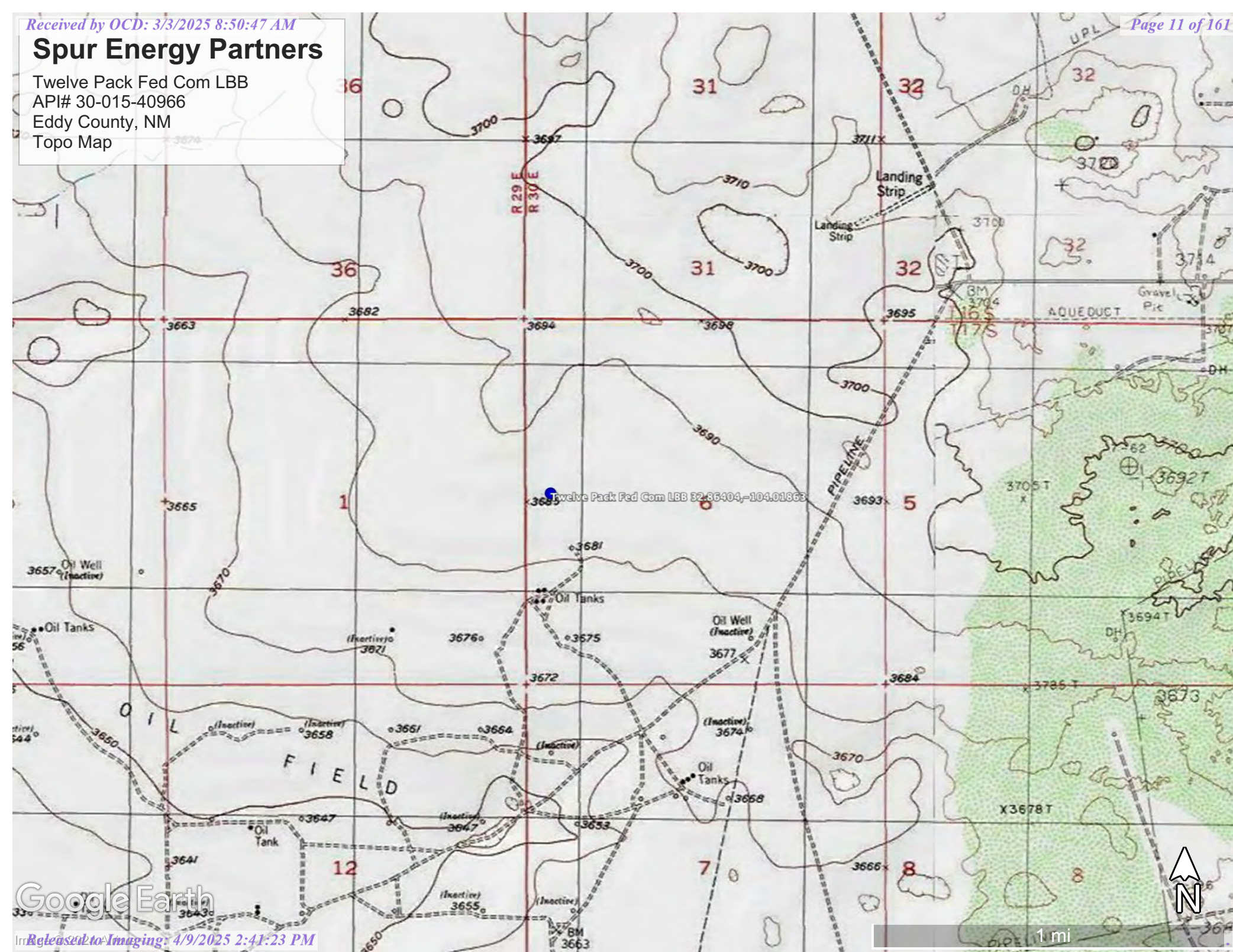
 Twelve Pack Fed Com LBB

32.86404,-104.01863 



Spur Energy Partners

Twelve Pack Fed Com LBB
API# 30-015-40966
Eddy County, NM
Topo Map

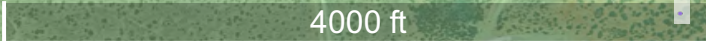
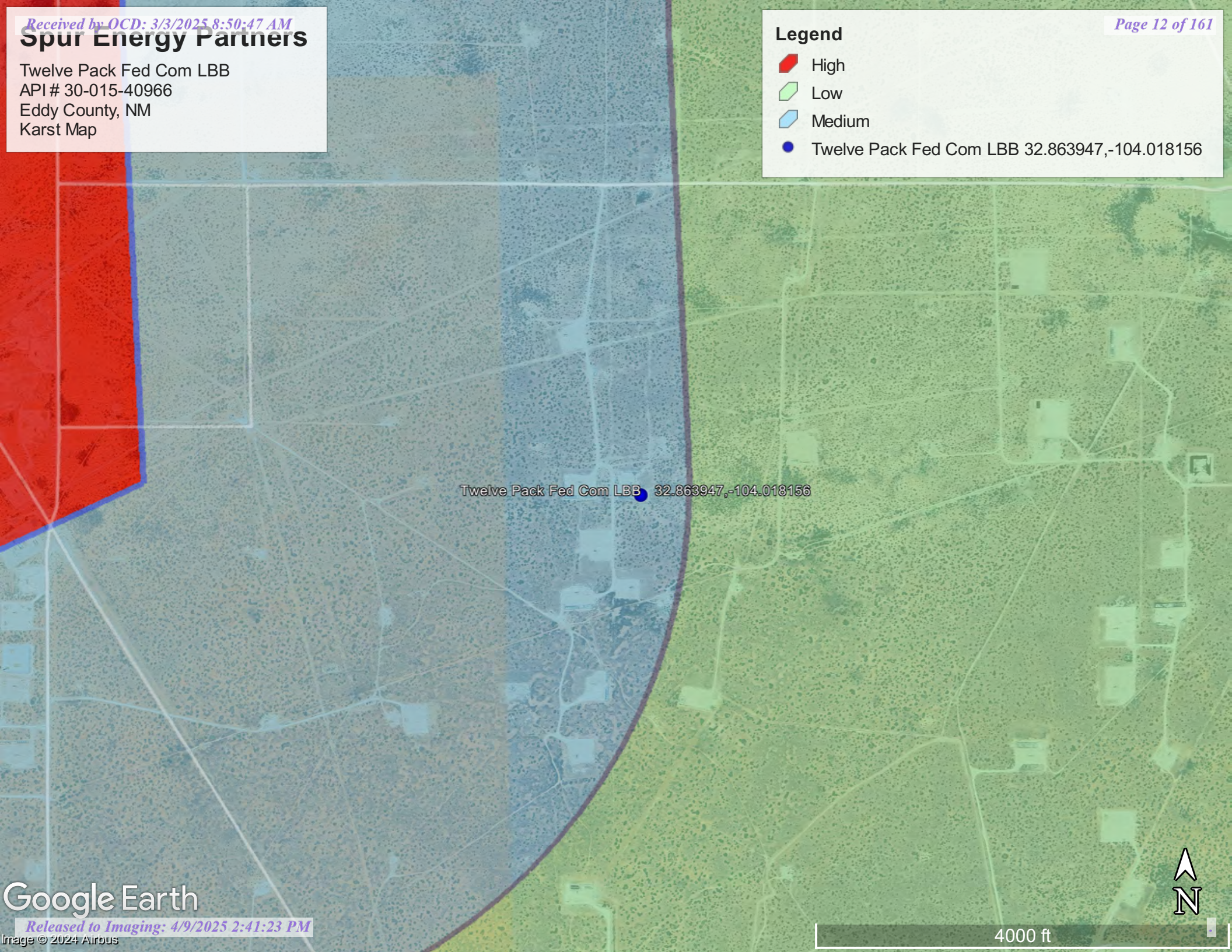


Spur Energy Partners

Twelve Pack Fed Com LBB
API # 30-015-40966
Eddy County, NM
Karst Map

Legend

- High
- Low
- Medium
- Twelve Pack Fed Com LBB 32.863947,-104.018156



Spur Energy Partners

Twelve Pack Fed Com LBB
API# 30-015-40966
Eddy County, NM
Wetlands Map

Legend

1.31 Mile

Twelve Pack Fed Com LBB 32.86404, -104.01863

S-1
S-2
Polaris



1 mi

Google Earth

Spur Energy Partners

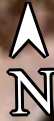
Twelve Pack Fed Com LBB
API # 30-015-40966
Eddy County, NM
Sample Map

Legend

- Feature 1
- Spill Area 200 sq.ft.
- Twelve Pack Fed Com LBB 32.863947,-104.018156

Twelve Pack Fed Com LBB 32.863947,-104.018156

NSW
WSW B-1 ESW
SSW





Appendix A
Referenced Water Data:

New Mexico State of Engineers Office



(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 591818.578

Northing (Y): 3636640.703

Radius: 5000

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 any particular purpose of the data.

10/18/22 8:49 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER



Appendix B
Soil Survey:

U.S.D.A.

FEMA Flood Map

Map Unit Description: Kermit-Berino fine sands, 0 to 3 percent slopes---Eddy Area, New Mexico

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

Map Unit Description: Kermit-Berino fine sands, 0 to 3 percent slopes---Eddy Area, New Mexico

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

National Flood Hazard Layer FIRMMette



104°1'26"W 32°52'6"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/18/2022 at 10:55 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



Appendix C:

NMOCD Notification

Photographic Documentation

OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	381064	Districts:	Artesia
Operator:	[328947] Spur Energy Partners LLC	Counties:	Eddy
Description:	Spur Energy Partners LLC [328947] , TWELVE PACK FEDERAL COM LBB #004H , nRM1931853815		
Status:	APPROVED		
Status Date:	09/05/2024		
References (2):	30-015-40966, nRM1931853815		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nRM1931853815
Incident Name	NRM1931853815 TWELVE PACK FEDERAL COM LBB #004H @ 30-015-40966
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-40966] TWELVE PACK FEDERAL COM LBB #004H

Location of Release Source

Site Name	TWELVE PACK FEDERAL COM LBB #004H
Date Release Discovered	10/06/2019
Surface Owner	Federal

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	200
What is the estimated number of samples that will be gathered	5
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/10/2024
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	(32.8640278, -104.0186389)
Please provide any information necessary for navigation to sampling site	Tristan Jones 575-318-6841

Comments

No comments found for this submission.

Conditions

Summary: *apena (9/5/2024)*, 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.

Reasons

No reasons found for this submission.

Go Back

New Mexico Energy, Minerals and Natural Resources Department | Copyright 2012
1220 South St. Francis Drive | Santa Fe, NM 87505 | P: (505) 476-3200 | F: (505) 476-3220



Angel Pena <angel@paragonenvironmental.net>

The Oil Conservation Division (OCD) has accepted the application, Application ID: 428293

<OCDOnline@state.nm.us>

Tue, Feb 4 at 5:05 PM

To: <angel@paragonenvironmental.net>

To whom it may concern (c/o Angel Pena for Spur Energy Partners LLC),

The OCD has received the submitted *Notification for Liner Inspection for a Release* (C-141L), for incident ID (n#) nRM1931853815.

The liner inspection is expected to take place:

When: 02/07/2025 @ 08:00

Where: E-06-17S-30E 0 FNL 0 FEL (32.86404,-104.01863)

Additional Information: 32.8640278,-104.0186389

Additional Instructions: Angel Pena
575-605-0773

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, liner inspection pursuant to 19.15.29.11.A(5)(a) NMAC is required. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505



Paragon Environmental LLC

Liner Inspection Form

Company Name: Spur Energy Partners

Site: Twelve Pack Fed Com LBB

Lat/Long: 32.86404,-104.01863

NMOCD Incident ID

& Incident Date: NRM1931853815, 10/06/2019

2-Day Notification

Sent: Submitted into the portal on 02/04/25

Inspection Date: 02/07/25

Liner Type: Earthen w/liner Earthen no liner Polystar

☒ Steel w/poly liner ☐ Steel w/spray epoxy ☐ No Liner

Other: _____

Visualization	Yes	No	Comments
Is there a tear in the liner?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are there holes in the liner?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is the liner retaining any fluids?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Does the liner have integrity to contain a leak?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Comments: _____

Inspector Name: Angel Pena



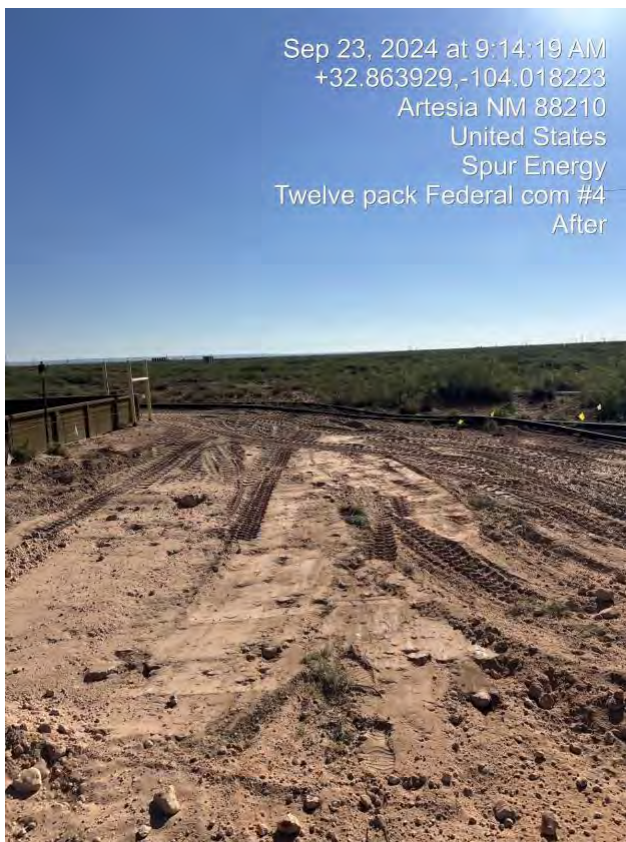
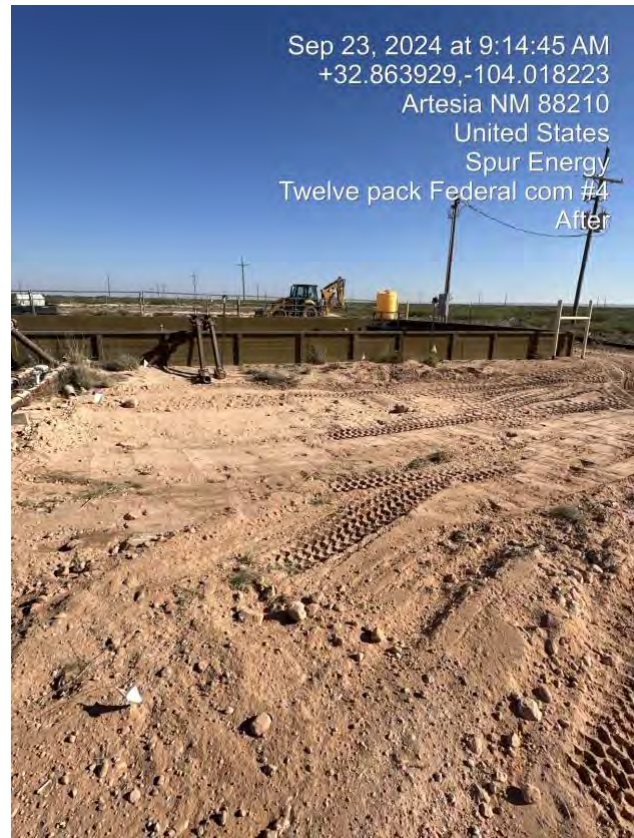
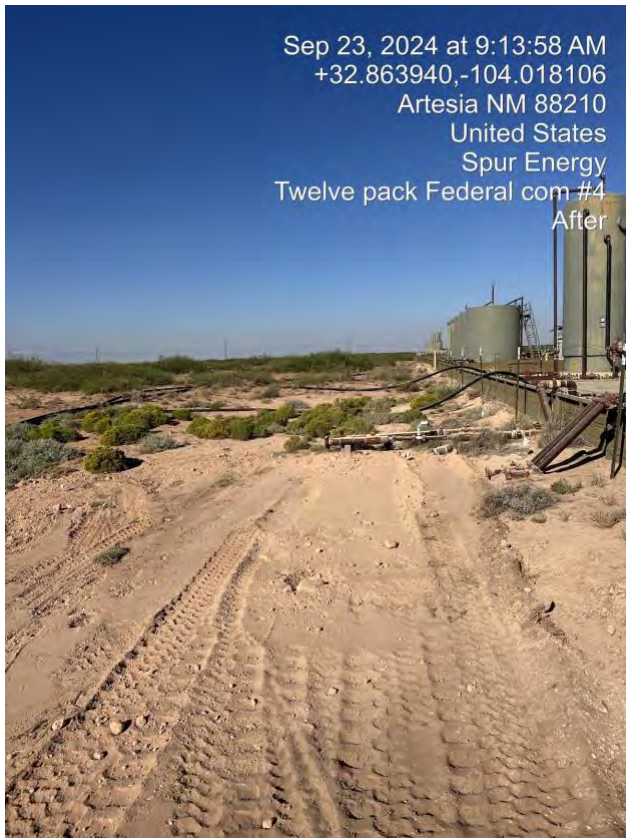
Photographic Documentation
Before Remediation



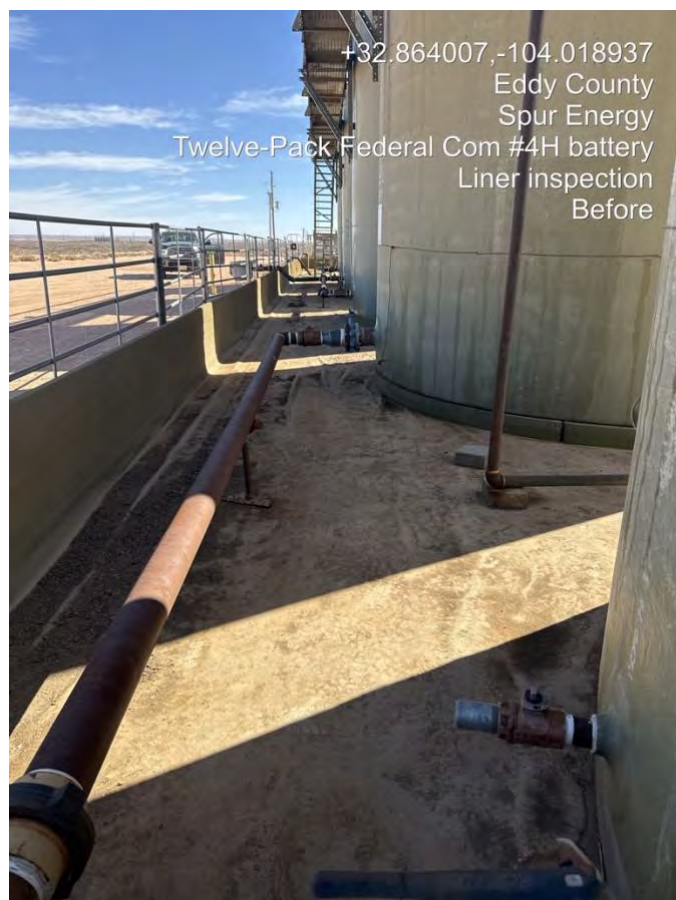
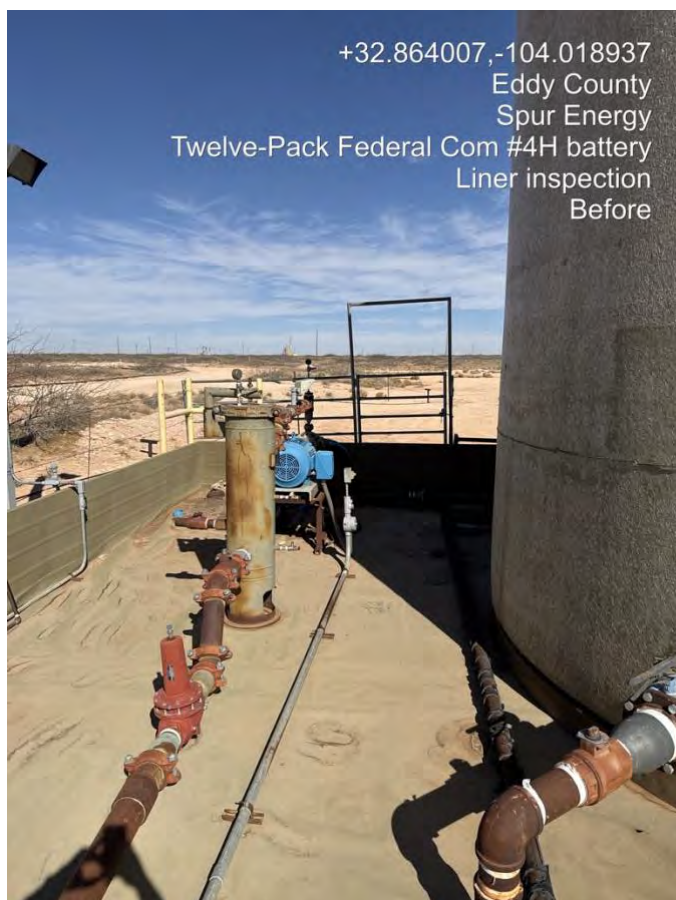
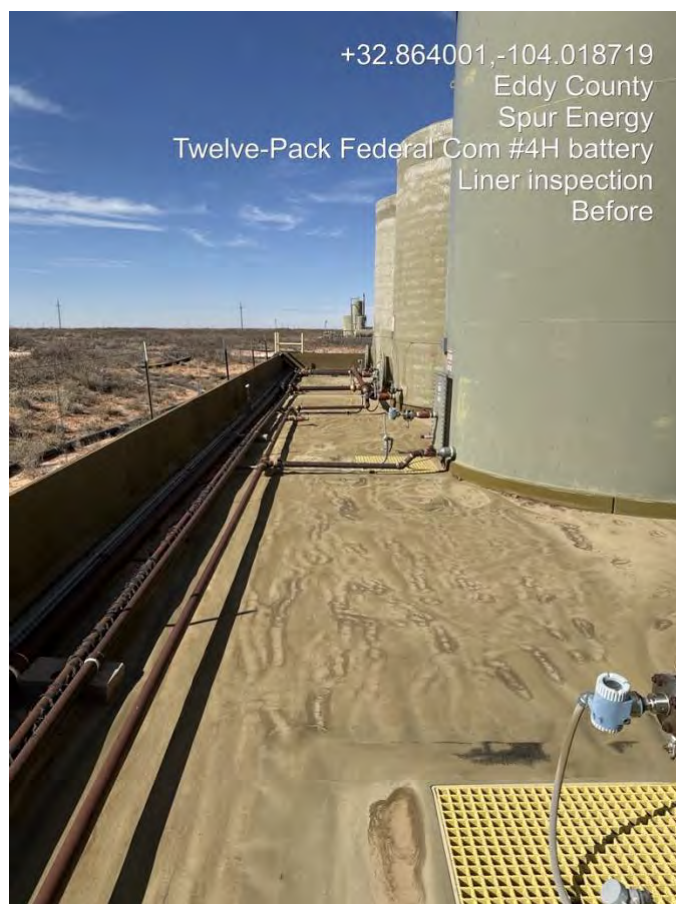
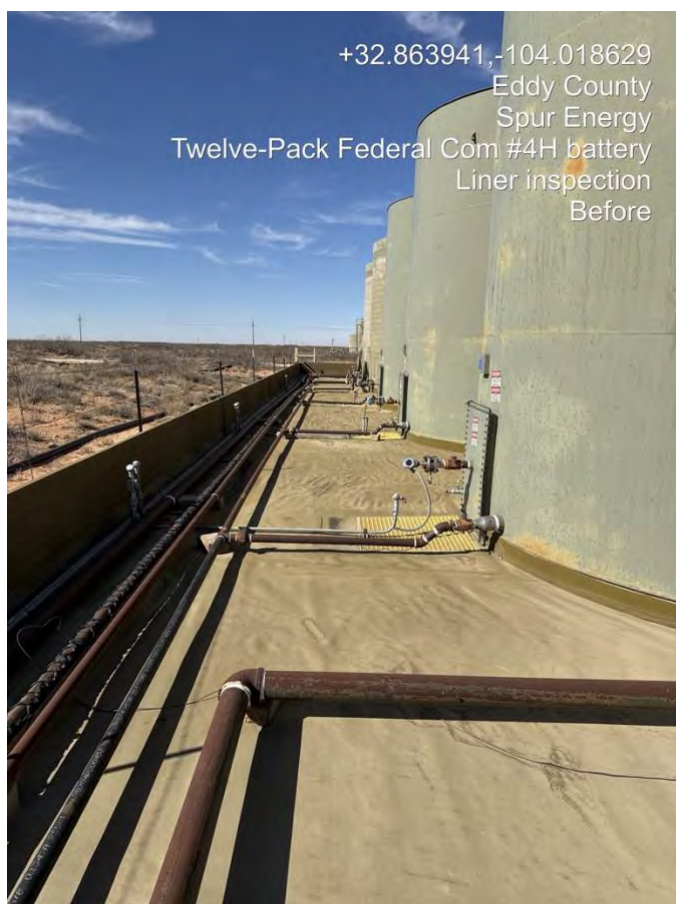
During Remediation



Post Remediation



Liner Inspection





Appendix D:
Laboratory Results



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

September 16, 2024

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: TWELVE PACK FED COM LBB

Enclosed are the results of analyses for samples received by the laboratory on 09/11/24 16:03.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
1601 N TURNER ST., STE 500
HOBBS NM, 88240
Fax To:

Received:	09/11/2024	Sampling Date:	09/10/2024
Reported:	09/16/2024	Sampling Type:	Soil
Project Name:	TWELVE PACK FED COM LBB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	SPUR - EDDY NM		

Sample ID: B - 1 (H245507-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2024	ND	2.25	113	2.00	0.716	
Toluene*	<0.050	0.050	09/12/2024	ND	2.18	109	2.00	3.29	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	2.23	112	2.00	5.06	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	6.77	113	6.00	5.25	
Total BTX	<0.300	0.300	09/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/12/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	193	96.6	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	189	94.5	200	0.275	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
1601 N TURNER ST., STE 500
HOBBS NM, 88240
Fax To:

Received:	09/11/2024	Sampling Date:	09/10/2024
Reported:	09/16/2024	Sampling Type:	Soil
Project Name:	TWELVE PACK FED COM LBB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	SPUR - EDDY NM		

Sample ID: NSW (H245507-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2024	ND	2.25	113	2.00	0.716		
Toluene*	<0.050	0.050	09/12/2024	ND	2.18	109	2.00	3.29		
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	2.23	112	2.00	5.06		
Total Xylenes*	<0.150	0.150	09/12/2024	ND	6.77	113	6.00	5.25		
Total BTEX	<0.300	0.300	09/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	193	96.6	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	189	94.5	200	0.275	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 78.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.4 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
1601 N TURNER ST., STE 500
HOBBS NM, 88240
Fax To:

Received:	09/11/2024	Sampling Date:	09/10/2024
Reported:	09/16/2024	Sampling Type:	Soil
Project Name:	TWELVE PACK FED COM LBB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	SPUR - EDDY NM		

Sample ID: ESW (H245507-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2024	ND	2.25	113	2.00	0.716		
Toluene*	<0.050	0.050	09/12/2024	ND	2.18	109	2.00	3.29		
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	2.23	112	2.00	5.06		
Total Xylenes*	<0.150	0.150	09/12/2024	ND	6.77	113	6.00	5.25		
Total BTEX	<0.300	0.300	09/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	193	96.6	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	189	94.5	200	0.275	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
1601 N TURNER ST., STE 500
HOBBS NM, 88240
Fax To:

Received:	09/11/2024	Sampling Date:	09/10/2024
Reported:	09/16/2024	Sampling Type:	Soil
Project Name:	TWELVE PACK FED COM LBB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	SPUR - EDDY NM		

Sample ID: SSW (H245507-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2024	ND	2.25	113	2.00	0.716		
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	3.29		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.23	112	2.00	5.06		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.77	113	6.00	5.25		
Total BTEx	<0.300	0.300	09/13/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	193	96.6	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	189	94.5	200	0.275	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
1601 N TURNER ST., STE 500
HOBBS NM, 88240
Fax To:

Received:	09/11/2024	Sampling Date:	09/10/2024
Reported:	09/16/2024	Sampling Type:	Soil
Project Name:	TWELVE PACK FED COM LBB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	SPUR - EDDY NM		

Sample ID: WSW (H245507-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2024	ND	2.25	113	2.00	0.716		
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	3.29		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.23	112	2.00	5.06		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.77	113	6.00	5.25		
Total BTEx	<0.300	0.300	09/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	193	96.6	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	189	94.5	200	0.275	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental		P.O. #:		ANALYSIS REQUEST													
Project Manager: Chris Jones		Company: SPW															
Address: 1601 N. Turner St., Ste 500		Attn: Kathy Potts															
City: Hobbs		Address:															
Phone #: 575-964-7814		City:															
Fax #:		State:															
Project #:		Zip:															
Project Name: Twelle Park Fed Lm LBB		Phone #:															
Project Location: Eddy NM		Fax #:															
Sampler Name: Trish Jones																	
FOR LAB USE ONLY																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BT EX	Chlorides	TPH EXT
1245507	B-1	C	1										9/10/04				
1	NSW																
2	ESW																
3	SSW																
4	WSW																
5																	
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																	
Relinquished By: [Signature]		Date: 9/10/04		Received By: [Signature]		Time: 1003		Date: 9/11/04		Time: 1124		Sample Condition		CHECKED BY: [Signature]		REMARKS:	
Delivered By: (Circle One)		SAC / SAC		Cool		Intact		Yes		No		Add'l Phone #:		Fax Result:		Add'l Fax #:	
Sampler - UPS - Bus - Other:		-9.2c / #40		Yes		No		Yes		No							

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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

September 20, 2024

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: TWELVE PACK FED COM LBB

Enclosed are the results of analyses for samples received by the laboratory on 09/17/24 17:01.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
1601 N TURNER ST., STE 500
HOBBS NM, 88240
Fax To:

Received:	09/17/2024	Sampling Date:	09/17/2024
Reported:	09/20/2024	Sampling Type:	Soil
Project Name:	TWELVE PACK FED COM LBB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY NM		

Sample ID: BACKFILL CONF - 1 (H245659-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2024	ND	2.32	116	2.00	1.55	
Toluene*	<0.050	0.050	09/19/2024	ND	2.17	108	2.00	0.0965	
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.19	110	2.00	1.44	
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.59	110	6.00	1.22	
Total BTEX	<0.300	0.300	09/19/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/19/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	188	94.2	200	5.11	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	195	97.7	200	5.53	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

Cardinal Laboratories

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



CARDINAL
Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental Project Manager: Chris Jones Address: 1601 N. Turner St., Ste 500 City: Hobbs Phone #: 575-964-7814 State: NM zip: 88240 Project #: Project Name: Towne Park Fed Cont Lab Project Location: Rte 1 Eddy Sampler Name: Amy FOR LAB USE ONLY				P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:			
Lab I.D. 145059		Sample I.D. Backfill conf - 1		(G)RAB OR (C)OMP. G			
		# CONTAINERS		MATRIX			
		GROUNDWATER		PRESERV			
		WASTEWATER		SAMPLING			
		SOIL					
		OIL					
		SLUDGE					
		OTHER :					
		ACID/BASE:					
		ICE / COOL					
		OTHER :					
		DATE		TIME			
		9-17		10:14 10:15 10:16 10:17 10:18 10:19 10:20 10:21 10:22 10:23 10:24 10:25 10:26 10:27 10:28 10:29 10:30 10:31 10:32 10:33 10:34 10:35 10:36 10:37 10:38 10:39 10:40 10:41 10:42 10:43 10:44 10:45 10:46 10:47 10:48 10:49 10:50 10:51 10:52 10:53 10:54 10:55 10:56 10:57 10:58 10:59 11:00			

☐ Yes ☐ No ☐ Add'l Phone #:
☐ Yes ☐ No ☐ Add'l Fax #:
REMARKS:



Appendix E:
Rejected Closure Report



**TWELVE PACK FEDERAL COM LBB
#004H CLOSURE REPORT**

**API NO. 30-015-40966
2RP-5695
Incident No NRM1931853815
U/L E, SECTION 06, TOWNSHIP 17S, RANGE 30E
EDDY COUNTY**

March 2, 2021

PREPARED BY:



**#7 COMPRESS ROAD
ARTESIA, NM 88210**

March 2, 2021

New Mexico Energy, Minerals & Natural Resources
NMOCD District II
C/O Mike Bratcher, Robert Hamlet & Christina Eads
811 S. First Street
Artesia, NM 88210

Bureau of Land Management
C/O Jim Amos
620 E. Green Street
Carlsbad, NM 88220

Spur Energy Partners
C/O Braidy Moulder
920 Memorial City Way, Suite 1000
Houston, TX 77024

Subject: Closure Request for Spur Energy Partners – Twelve Pack Federal Com LBB #004H

API NO. 30-015-40966
2RP-5695 (Incident No. NRM1931853815)
U/L E, Section 06, Township 17S, Range 30E
Eddy County, New Mexico

To Whom it May Concern:

Spur Energy Partners has retained ESS (Energy Staffing Services) to conduct drilling of the site to determine depth to ground water for the release that occurred at the Twelve Pack Federal Com LBB #004H (hereafter referred to as “Twelve Pack”). COG Operating (owner of the site at the time), provided notification of the release to the New Mexico Oil Conservation Division (NMOCD) District 2 and the Bureau of Land Management (BLM), via submission of an initial C-141 Release Notification on October 6th, 2019.

This closure report provides a detailed description of the spill assessment, delineation and remediation activities, and demonstrates that the closure criteria established in 19.15.29.12 *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) have been met and all applicable regulations were followed. This document is intended to serve as a final report to obtain approval from the NMOCD and BLM for closure of this release.

Incident Description

On October 6th, 2019, a release occurred at the Spur Twelve Pack site, when the gasket failed on the fire tube. The incident resulted in releasing 20bbls of oil and 50bbls of produced water into the lined facility and also an over-spray in the pasture area. A vacuum truck arrived on-site to recover free fluids; recovering approximately 19bbls of oil and 48bbls of produced water. The corresponding C141 is attached with the RP# of 2RP-5695 and Incident # of NRM1931853815.

Site Characterization

The release at the Twelve Pack occurred on federally-owned land located at N 32.86404 and W -104.01863, 22.42 miles east of Artesia, New Mexico. The legal description for the site is Unit E, Section 06, Township 17S, Range 30E in Eddy County, New Mexico.

The surrounding landscape is associated with the sandy plains and sandy loam. Please find the soil data attached herein.

Hungry Horse, LLC conducted a groundwater study of the area. It has been determined and previously reported that according to the NMOSE, the closest well to the site shows water depth of 80'bgs. The wells found are listed below:

RA 11914 POD 1 – is 5,515' from the site with groundwater level at 80'DGW.

RA 11807 POD 1 – is 6,740' from the site with groundwater level at 76'DGW.

RA 09342 – is 9,922' from the site with groundwater level at 110'DGW.

With the groundwater data collected during the groundwater search, which determined there is verifiable record of groundwater but was found from 5,515' to 9,992' from the site. No other groundwater was found within a ½ a mile from the site, nor was there a well found drilled within the last 25 years.

Closure Criteria Determination

Based on the data included in the attached closure report, submitted by Hungry-Horse LLC the release is subject to the 51'-100' depth category. The Karst Mapping data was located inside the medium marked area, which fell into the <50'DGW closure criteria. At this determination, Hungry Horse delineated the site to meet the <50'DGW criteria.

Closure Denial Information

The closure report that was submitted to the NMOCD was denied with the following concerns:

- When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ a mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soil will need to be met using Table I Criteria for groundwater at a depth of 50' or less.
- If you feel the depth to groundwater is >50', a shallow borehole can be drilled to 51' allowing the verification of the depth. If water is not visible after reaching bottom-hole and waiting 72 hours, the OCD will accept this as evidence. We would just need a copy of the drillers log.
- Most of the clean samples were located 4'-6'bgs. The report says "It was agreed between Spur Energy and Hungry Horse that 6" bgs would be excavated from the impacted area". The OCD requires that excavation occur down to the first clean sample point. Micro-blaze was applied, which may only clean up the top few inches depending on the amount applied. Closure criteria sampling will need to show samples tested for all components in Table 1 of the OCD spill rule. The lack of BTEX and TPH data down to 4'-6', where the clean samples occurred is insufficient and will need to be addressed with additional lab analytical verified sampling.
- The release area has not been vertically delineated. Sample point SP3 was excavated down to 14' and had a TPH value of 3940 mg/kg. If the deepest sample point is still over closure criteria standards, it's not vertically delineated.
- Please upload new remediation/closure report after additional delineation and sampling has occurred.

Final Closure Request

On February 11, 2021 ESS drilled a borehole upgradient of the release. Desert Sand Water Well Services, LLC drilled a borehole down to 57'bgs. After waiting 72 hours after the borehole was drilled, no groundwater was located and the borehole was found to be dry. Therefore, the groundwater is not less than 50' but more than that of 57'bgs. The borehole was backfilled with bentonite. Please see borehole map attached, along with the Drilling Log provided by Desert Sand Water Well Service.

In the third bullet point in the above denial area, it mentions that the sites closure sampling will need to show samples tested for all components in Table I of the OCD Spill Rule. On page five of the report the chart indicates that SP1 thru SP5 were field tested for the composite "mix" sample. The one labelled "mix" is the composite sample and was tested for all component

requirements set in Table I (chloride, BTEX, TPH). Please use the previous data that was obtained and reported by Hungry Horse in the original closure report (attached).

Please find that the delineation conducted did meet the guidelines for this site, except previously indicated in the SP3 area which was "hand augured" to 14'bgs. This sample point was located between a riser and two flowlines. Further delineation could not be conducted by use of hand auger due to depth nor could a backhoe be used to further delineate the site due to compromising production equipment and lines in the area. The area was not excavated to 14'bgs as mentioned in the denial information, it was delineated by use of hand auger only to 14'bgs.

ESS recommends no addition actions are needed to address the release at the Twelve Pack Federal Com LBB #4H. Previous laboratory analyses of the final confirmatory samples showed that concentrations levels are below NMOCD closure criteria for areas where depth to groundwater is between 51' to 100'bgs as shown in Table I. There are no anticipated risks to human, ecological or hydrological receptors associated with the release site.

ESS requests that this incident number of **NRM1931853815** be closed as the original closure request denial (attached) reasons has been addressed and closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. ESS certifies that all of the information provided in this report, along with the Hungry Horse Report and attachments are correct and that remedial objectives have been met with all applicable closure requirements and conditions specified in Division rules and directives to meet the NMOCD requirements to obtain closure on the release that occurred at the Twelve Pack Federal Com LBB #4H.

Should you have any questions or concerns, please do not hesitate to contact the undersigned at 575-390-6397 or at natalie@energystaffingllc.com.

Sincerely,

Natalie Gladden

Director of Environmental and Regulatory Services

Energy Staffing Services, LLC.

#7 Compress Rd

Artesia, NM 88210

Cell: 575-390-6397

Email: natalie@energystaffingllc.com

Attachments:

Initial C141

Hungry Horse Closure Request

Borehole Map

Borehole Drilling Log

Borehole Site Photos

Final C141

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 7CL9M-191015-C-1410

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)

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

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

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



Twelve Pack Federal Com LBB #004H Closure Plan

**API No. 30-015-40966
2RP-5695
U/L E, Section 06, Township 17S, Range 30E
Eddy County**

05/12/2020

Prepared by:



**Hungry Horse, LLC
4024 Plains Highway
Lovington, NM 88260**



May 12, 2020

New Mexico Energy, Minerals & Natural Resources
NMOCD District II
C/O Mike Bratcher, Robert Hamlet & Victoria Venegas
811 S. First Street
Artesia, NM 88210

Bureau of Land Management
C/O Jim Amos
620 E. Green Street
Carlsbad, NM 88220

Spur Energy Partners, LLC
C/O Braidy Moulder
920 Memorial City Way, Suite 1000
Houston, TX 77024

Subject: Closure Request for Spur Energy Partners – Twelve Pack Federal Com LBB #004H

To Whom It May Concern,

On behalf of Spur Energy Partners, Hungry Horse, LLC has prepared this CLOSURE REPORT that describes the assessment, delineation and remediation for the release associated with the Twelve Pack Federal Com LBB #004H, dated 10/06/2019 with RP# 2RP-5695.

Background

The site is located in Eddy County, New Mexico. COG Operating owned the site at the time of release and filed the initial C-141. Spur Energy Partners purchased the site from COG Operating and is responsible for remediation of the site. The release was caused by a gasket failure on the fire tube. The gasket has been replaced. The release was in the lined facility with over spray into the pasture. Approximately 20bbls of crude oil and 50bbls of produced water was released. A vacuum truck was dispatched to the site to removing any free-standing fluids. Approximately 19bbls of crude oil and 48bbls of produced water were removed and hauled to a

disposal site. The approximate area of impact was measured at 1627 sq. ft. The release was contained to the lined facility with over spray into the pasture area. The corresponding C-141 for the release is attached with RP# 2RP-5695.

Groundwater Information

Hungry Horse, LLC conducted a groundwater study of the area. It has been determined that according to the New Mexico Office of the State Engineer, the closest well to the site shows water depth of 80'bgs. The wells found are listed below:

RA 11914 POD 1 – is 5,515' from the site with groundwater level at 80'DGW.

RA 11807 POD 1 – is 6,740' from the site with groundwater level at 76'DGW.

RA 09342 – is 9,922' from the site with groundwater level at 110'DGW.

With the groundwater data collected during the groundwater search determined there is verifiable record of groundwater but was found from 5,515' to 9,992' from the site. No other groundwater was found in the vicinity of the release location. Specific water well data as shown above. Please see supporting groundwater documentation and groundwater map attached herein. Hungry Horse also viewed and researched the OSE POD Website and did not locate any other wells in the area. Therefore, there is no eminent danger of groundwater found at this site, as groundwater depth close to the site is unknown.

The Closure Criteria for Soils Impacted by a Release is below and based on the groundwater depth of 80'bgs, it falls under the 51'-100' depth category.

DGW	Constituent	Method	Limit
51'-100'	Chloride	EPA 300.0 OR SM4500 CLB	10,000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 METHOD 8015M	2,500 mg/kg
	GRO + DRO	EPA SW-846 METHOD 8015M	1,000 mg/kg
	BTEX	EPA SW-846 METHOD 8021B OR 8260B	50 mg/kg
	Benzene	EPA SW-846 METHOD 8021B OR 8260B	10 mg/kg

Karst Mapping

The Karst Mapping data found for this site is located inside the medium marked area. When the site was delineated, it was fully delineated to meet NMOCD standards for Karst areas. Medium Karst Areas fall into the <50' DGW closure criteria. Please see the table shown below as well as the Karst Map attached herein.

DGW	Constituent	Method	Limit
≤ 50'	Chloride	EPA 300.0 OR SM4500 CLB	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 METHOD 8015M	100 mg/kg
	GRO + DRO	EPA SW-846 METHOD 8015M	50 mg/kg
	BTEX	EPA SW-846 METHOD 8021B OR 8260B	10 mg/kg
	Benzene	EPA SW-846 METHOD 8021B OR 8260B	10 mg/kg

Site Delineation

Hungry Horse, LLC began to fully delineate the impacted area on March 9th, 2020 using a hand auger and a backhoe. Soil was field tested for chlorides using the titration method. A PID meter was also used to indicate concentrations of BTEX/TPH. Soil samples were taken from eleven sample points in the pasture area. This area was sampled using 1' and 2' intervals dependent on the equipment usage availability. All of the delineation samples were sent to Envirotech Laboratory for confirmation. ***Please see sample trending data attached herein. Below you will find the vertical bottom hole samples which were confirmed by Envirotech Laboratory.

Ver Sam ID	Depth	CHL mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	E-Dro mg/kg	Ttl TPH mg/kg
SP1	4'	49.9	ND	ND	ND	ND	ND
SP2	4'	43	ND	ND	ND	ND	ND
SP3	14'	1800	0.127	ND	2860	1080	3940
SP4	6'	ND	ND	ND	ND	ND	ND
SP5	4'	ND	ND	ND	ND	ND	ND
SP6	6'	ND	ND	ND	35.1	ND	35.1
SP7	4'	ND	ND	ND	ND	ND	ND
SP8	4'	ND	ND	ND	ND	ND	ND
SP9	4'	ND	ND	ND	ND	ND	ND
SP10	4'	37.2	ND	ND	ND	ND	ND
SP11	ND	ND	ND	ND	ND	ND	ND

The vertical samples were well within the acceptable range with the exception of SP3. SP3 is located between a riser and two flow lines. The backhoe could not get into the area to excavate further, therefore this sample point was sampled using a hand auger, which maxed out at 14'bgs (please see sample map and photos).

Horizontal samples were then conducted to find the horizontal extent of the impacted area using 1' intervals. Soil was field tested for chlorides using the titration method. A PID meter was also used to indicate concentrations of BTEX/TPH. Each sample was sampled in the field and then sent to Envirotech Laboratory for confirmation. Below you will find the horizontal samples confirmed by Envirotech.

All of the confirmed sample data, except Sample Point 3, fell well with-in the limits set out in the Closure Criteria at the <50' DGW. It was agreed that no further delineation could be done on SP3, and no further delineation was required on the rest of the impacted area.

Hor Sam ID	Depth	CHL mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	E-Dro mg/kg	Ttl TPH mg/kg
SW 1	2'	ND	ND	ND	ND	ND	ND
SW 2	2'	26.3	ND	ND	ND	ND	ND
SW 3	2'	ND	ND	ND	ND	ND	ND
SW 4	2'	ND	ND	ND	ND	ND	ND
SW 5	2'	ND	ND	ND	ND	ND	ND
SW 6	2'	ND	ND	ND	ND	ND	ND

Background samples were taken of the pasture area to the north and south of the release 100' from the impacted area. These samples were field tested for chlorides and volatiles in the soil by use of the Titration Method as well as a PID Meter. These Samples were jarred and delivered to Envirotech Laboratory for confirmation.

On March 12th, 2020 an email was sent to NMOCD and BLM requesting witnessing of closure samples. On March 16th, 2020 Closure Samples were obtained and sent to Envirotech for confirmation. The results are listed in the table below.

SP ID	Depth	Titration	L-BTEX	L-DRO	L-ORO	L-GRO	L-TPH	L-CHL
BG 1	NORTH	360	ND	ND	ND	ND	ND	ND
BG 2	SOUTH	160	0.0284	ND	ND	ND	ND	ND
SP1	COMP	560						
SP2	COMP	160						
SP3	COMP	240						
SP4	COMP	240						
SP5	COMP	320						
MIX	COMP	240	ND	134	159	ND	293	ND
SW 1	COMP	400	ND	ND	ND	ND	ND	ND
SW 2	COMP	160	ND	ND	ND	ND	ND	ND
SW 3	COMP	160	ND	ND	ND	ND	ND	ND
SW 4	COMP	80	ND	ND	ND	ND	ND	ND

Remediation

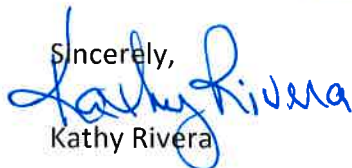
It was agreed between Spur Energy and Hungry Horse, LLC that 6"bgs would be excavated from the impacted area. Micro-Blaze was applied. Excavation then began. During the remediation phase, the liner in the battery was also inspected. No obvious defects or perforations were noted. 6"bgs was excavated and stockpiled on plastic. 256 cubic yards of contaminated material was hauled to Lea Landfill for disposal. Backfill was obtained from a near-by stockpile of clean caliche belonging to Spur Energy Partners. Micro-Blaze was applied a second time to the area around Sample Point 3, which is located in between a riser and two flow lines. The site was then recontoured to the natural slope of the area surrounding the pad.

Scope of Work and Limitations

The scope of our services consisted of the performance of assessment sampling, verification of release stabilization, regulatory liaison, delineation of the site, remediation activities and preparation of this closure report. All work has been performed in accordance with generally accepted professional environmental consulting and remediation practices. All work has been done in accordance with the NMOCD and BLM Rules and Regulations for spills and releases dated August 14, 2018.

On behalf of Spur Energy Partners and Hungry Horse, LLC, we respectfully request closure of the release associated with the Twelve Pack Federal Com LBB #004H, with the RP# 2RP-5695. If you have any questions or concerns, please contact Natalie Gladden, Director of Environmental and Regulatory Services for Hungry Horse, LLC. She can be reached via cell phone at (575) 390-6397 or via email at nagladden@hungry-horse.com.

Sincerely,



Kathy Rivera

Project Manager

Hungry Horse, LLC

4024 Plains Highway

Lovington, NM 88260

Attachments:

- Initial C-141
- Groundwater data and map
- Karst and Site Map
- Sample Data w/GPS Sample Map
- Lab Analysis
- Before Photos
- During Photos
- After Photos
- Final C141

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 7CL9M-191015-C-1410

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)

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

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

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



New Mexico Office of the State Engineer

Wells with Well Log Information

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 591817.7 **Northing (Y):** 3636641.3 **Radius:** 1000

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 any particular purpose of the data.

2/20/20 8:16 AM

WELLS WITH WELL LOG INFORMATION



New Mexico Office of the State Engineer

Wells with Well Log Information

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 591817.7

Northing (Y): 3636641.3

Radius: 5000

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 any particular purpose of the data.

2/20/20 8:17 AM

WELLS WITH WELL LOG INFORMATION



New Mexico Office of the State Engineer

Wells with Well Log Information

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right

(R=POD has
been replaced,
O=orphaned,
C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet)

POD Number	Code	POD		Source	q q q					X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number		
		Subbasin	County		64	16	4	Sec	Tws											Rng	
RA 11914 POD1		RA	ED	Shallow	2	4	2	20	17S	30E	594801	3632002	<input type="checkbox"/>	5515	03/19/2013	03/19/2013	04/09/2013	85	80	JOHN NORRIS	1682
RA 11807 POD1		RA	ED	Shallow	1	2	3	22	17S	29E	587360	3631585	<input type="checkbox"/>	6740	11/23/2012	11/26/2012	03/26/2013	131	76	TAYLOR, CLINTON E.	1348
RA 09342		RA	ED	Shallow	4	4	3	19	16S	29E	582737	3640640*	<input type="checkbox"/>	9922	05/02/1998	05/03/1998	05/08/1998	220	110	DELFORD MARTIN	1064

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 591817.7

Northing (Y): 3636641.3

Radius: 10000

*UTM location was derived from PLSS - see Help

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 any particular purpose of the data.

2/20/20 8:17 AM

WELLS WITH WELL LOG INFORMATION



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
RA 11914	POD1	2	4	2	20	17S	30E	594801	3632002

Driller License: 1682 **Driller Company:** HUNGRY HORSE, LLC.

Driller Name: JOHN NORRIS

Drill Start Date: 03/19/2013

Drill Finish Date: 03/19/2013

Plug Date:

Log File Date: 04/09/2013

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well: 85 feet

Depth Water: 80 feet

Water Bearing Stratifications:	Top	Bottom	Description
	11	85	Sandstone/Gravel/Conglomerate

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 any particular purpose of the data.

5/13/20 9:37 AM

Page 1 of 1

POD SUMMARY - RA 11914 POD1



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
RA 11807	POD1	1	2	3	22	17S	29E	587360	3631585

Driller License: 1348	Driller Company: TAYLOR WATER WELL SERVICE
Driller Name: TAYLOR, CLINTON E.	
Drill Start Date: 11/23/2012	Drill Finish Date: 11/26/2012
Log File Date: 03/26/2013	PCW Rcv Date:
Pump Type:	Pipe Discharge Size:
Casing Size: 4.50	Depth Well: 131 feet
	Plug Date:
	Source: Shallow
	Estimated Yield: 4 GPM
	Depth Water: 76 feet

Water Bearing Stratifications:	Top	Bottom	Description
	104	128	Other/Unknown

Casing Perforations:	Top	Bottom
	91	131



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
RA 09342		4	4	3	19	16S	29E	582737	3640640*

Driller License: 1064 **Driller Company:** DELFORD W. MARTIN

Driller Name: DELFORD MARTIN

Drill Start Date: 05/02/1998

Drill Finish Date: 05/03/1998

Plug Date:

Log File Date: 05/08/1998

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield: 30 GPM

Casing Size: 5.50

Depth Well: 220 feet

Depth Water: 110 feet

Water Bearing Stratifications:

Top Bottom Description

143 204 Shallow Alluvium/Basin Fill

Casing Perforations:

Top Bottom

140 220

*UTM location was derived from PLSS - see Help

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 any particular purpose of the data.

5/13/20 9:39 AM

Page 1 of 1

POD SUMMARY - RA 09342

SPUR ENERGY PARTNERS

TWELVE PACK FED COM LBB #004H
DOR: 10.6.19
GROUND WATER MAP



5 mi

SPUR ENERGY PARTNERS

TWELVE PACK FED COM LBB #004H
DOR: 10.6.19
KARST: MEDIUM

Legend

- High
- Low
- Medium

TWELVE PACK FED COM LBB #004H



SPUR ENERGY

TWELVE PACK FEDERAL COM LBB #004H
DOR: 10.6.19
2RP-5695

TWELVE PACK FEDERAL COM LBB #004H



Company Name: **SPUR**Location Name: **TWELVE PACK FEDERAL**

Release Date:

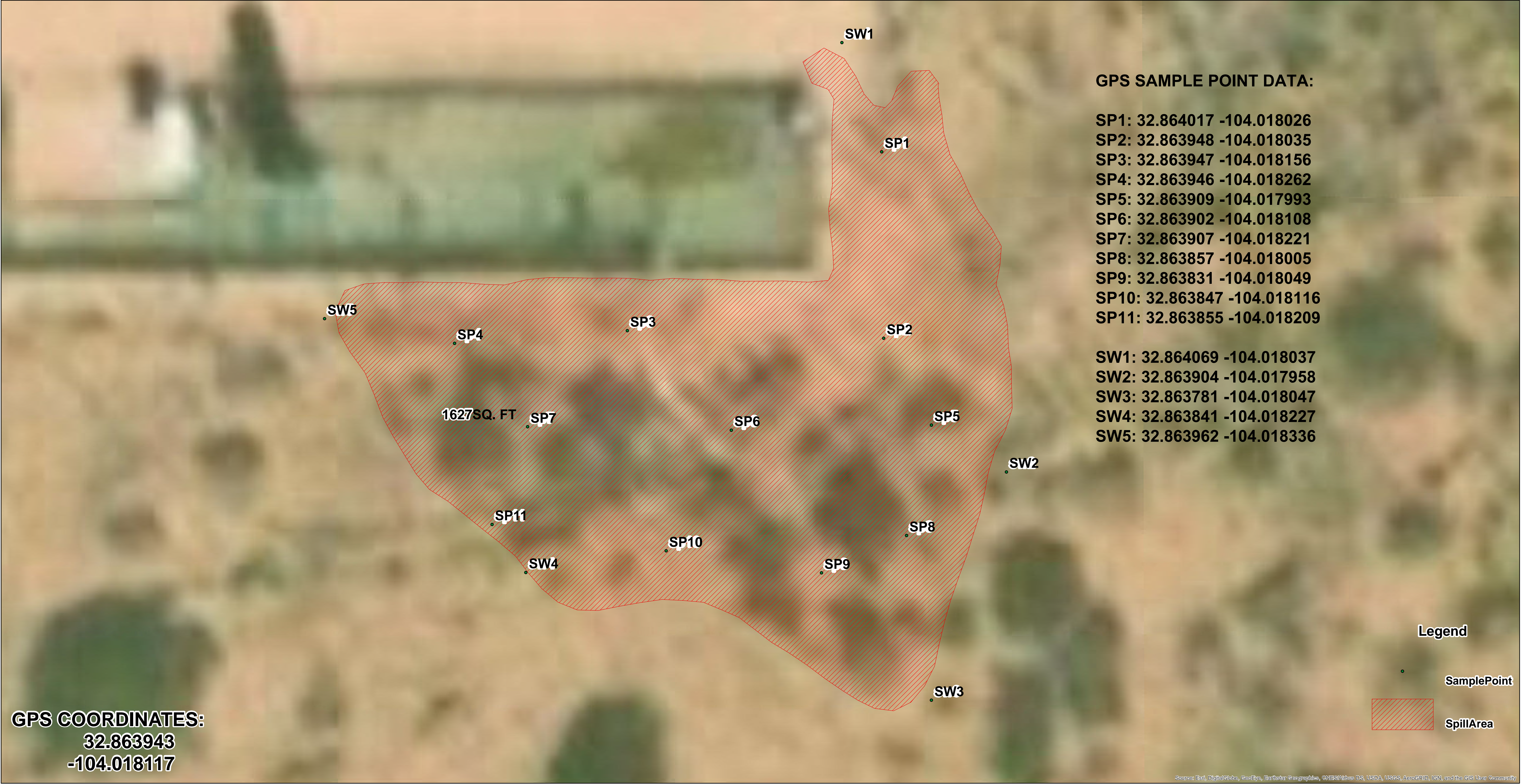
10/6/2019**COM LBB #004H**

SP ID	Depth	Tit	PID	L-BTEX	L-DRO	L-ORO	L-GRO	L-TPH	L-CHL	Soil	Notes
SP1	SUR	2400									TPH
	1'	800									TPH
	2'	400									
	3'	160									
	4'	80		ND	ND	ND	ND	ND	49.9		
SP2	SUR	2880									TPH
	1'	880									TPH
	2'	800									
	3'	400									
	4'	160		ND	ND	ND	ND	ND	43		
SP3	SUR	7600	TPH								TPH
	1'	5280	TPH								TPH
	2'	4000	TPH								TPH
	3'	14,000	TPH								TPH
	4'	13,680	TPH								TPH
	5'	13,280	TPH								TPH
	6'	12,800	TPH								TPH
	7'	6800	TPH								TPH
	8'	2400	TPH								TPH
	9'	2000	TPH								TPH
	10'	1600	TPH								TPH
	11'	1200	TPH								TPH
	12'	1200	TPH								TPH
	13'	1200	TPH								TPH
	14'	1280	TPH	0.127	2860	1080	ND	3940.13	1800		MAXED OUT AUGER
SP4	SUR	400									TPH
	2'	360									
	4'	360									

	6'	360		ND	ND	ND	ND	ND	ND		
SP5	SUR	400									TPH
	2'	160									
	4'	80		ND	ND	ND	ND	ND	ND		
SP6	SUR	400	TPH								TPH
	2'	360	TPH								TPH
	4'	80	TPH								
	6'	80	TPH	ND	35.1	ND	ND	35.1	ND		
SP7	SUR	480									
	2'	240									
	4'	160		ND	ND	ND	ND	ND	ND		
SP 8	SURF	360									TPH
	2'	240									
	4'	160		ND	ND	ND	ND	ND	ND		
SP 9	SURF	400									
	2'	240									
	4'	160		ND	ND	ND	ND	ND	ND		
SP 10	SURF	400	TPH								
	2'	320	TPH								
	4'	160		ND	ND	ND	ND	ND	37.2		
SP 11	SURF	160									
	2'	160									
	4'	160		ND	ND	ND	ND	ND	ND		
SW 1	SURF	1680									
	1'	560									
	2'	240		ND	ND	ND	ND	ND	ND		

SW 2	SURF	320									
	1'	240									
	2'	80		ND	ND	ND	ND	ND	26.3		
SW 3	SURF	160									
	1'	160									
	2'	80		ND	ND	ND	ND	ND	ND		
SW 4	SURF	160									
	1'	160									
	2'	80		ND	ND	ND	ND	ND	ND		
SW 5	SURF	160									
	1'	160									
	2'	80		ND	ND	ND	ND	ND	ND		
SW 6	SURF	480									
	1'	400									
	2'	400		ND	ND	ND	ND	ND	ND		
BG 1	NORTH	360		ND	ND	ND	ND	ND	ND		
BG 2	SOUTH	160		0.0284	ND	ND	ND	ND	ND		
SP1	COMP	560									
SP2	COMP	160									
SP3	COMP	240									
SP4	COMP	240									
SP5	COMP	320									

MIX	COMP	240		ND	134	159	ND	293	ND		
SW 1	COMP	400		ND	ND	ND	ND	ND	ND		
SW 2	COMP	160		ND	ND	ND	ND	ND	ND		
SW 3	COMP	160		ND	ND	ND	ND	ND	ND		
SW 4	COMP	80		ND	ND	ND	ND	ND	ND		



SPUR
ENERGY PARTNERS

TWELVE PACK
FED COM LLB #004

FIGURE 1
IMPACTED AREA



Hungry Horse LLC.

DRAWN BY: EDDIE GAYTAN

CHECKED BY: NATALIE GLADDEN



Analytical Report

Report Summary

Client: Spur

Samples Received: 3/11/2020

Job Number: 19054-0003

Work Order: P003054

Project Name/Location: Twelve Pack

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue rectangular background.

Date: 3/12/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



Spur	Project Name:	Twelve Pack	Reported: 03/12/20 15:32
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sp1-4'	P003054-01A	Soil	03/08/20	03/11/20	Glass Jar, 4 oz.
Sp2-4'	P003054-02A	Soil	03/08/20	03/11/20	Glass Jar, 4 oz.
Sp3-14'	P003054-03A	Soil	03/08/20	03/11/20	Glass Jar, 4 oz.
Sp4-6'	P003054-04A	Soil	03/08/20	03/11/20	Glass Jar, 4 oz.
Sp5-4'	P003054-05A	Soil	03/08/20	03/11/20	Glass Jar, 4 oz.
Sp6-6'	P003054-06A	Soil	03/08/20	03/11/20	Glass Jar, 4 oz.
Sp7-4'	P003054-07A	Soil	03/08/20	03/11/20	Glass Jar, 4 oz.

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Spur	Project Name:	Twelve Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/12/20 15:32

Sp1-4'
P003054-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %		50-150	2011022	03/11/20	03/11/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011021	03/11/20	03/11/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011021	03/11/20	03/11/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		85.8 %		50-200	2011021	03/11/20	03/11/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.9 %		50-150	2011022	03/11/20	03/11/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	49.9	20.0	mg/kg	1	2011024	03/11/20	03/11/20	EPA 300.0/9056A	
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Spur	Project Name:	Twelve Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/12/20 15:32

Sp2-4'
P003054-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %		50-150	2011022	03/11/20	03/11/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011021	03/11/20	03/11/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011021	03/11/20	03/11/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		85.5 %		50-200	2011021	03/11/20	03/11/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.2 %		50-150	2011022	03/11/20	03/11/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	43.0	20.0	mg/kg	1	2011024	03/11/20	03/11/20	EPA 300.0/9056A	
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Spur	Project Name:	Twelve Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/12/20 15:32

Sp3-14'
P003054-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
Ethylbenzene	0.0369	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
p,m-Xylene	0.0761	0.0500	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
o-Xylene	0.0514	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
Total Xylenes	0.127	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>113 %</i>		<i>50-150</i>	<i>2011022</i>	<i>03/11/20</i>	<i>03/11/20</i>	<i>EPA 8021B</i>	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	2860	500	mg/kg	20	2011021	03/11/20	03/11/20	EPA 8015D	
Oil Range Organics (C28-C40)	1080	1000	mg/kg	20	2011021	03/11/20	03/11/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		<i>109 %</i>		<i>50-200</i>	<i>2011021</i>	<i>03/11/20</i>	<i>03/11/20</i>	<i>EPA 8015D</i>	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>92.1 %</i>		<i>50-150</i>	<i>2011022</i>	<i>03/11/20</i>	<i>03/11/20</i>	<i>EPA 8015D</i>	

Anions by 300.0/9056A

Chloride	1800	20.0	mg/kg	1	2011024	03/11/20	03/11/20	EPA 300.0/9056A	
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Spur	Project Name:	Twelve Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/12/20 15:32

Sp4-6'
P003054-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.0 %		50-150	2011022	03/11/20	03/11/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011021	03/11/20	03/11/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011021	03/11/20	03/11/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		78.7 %		50-200	2011021	03/11/20	03/11/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.6 %		50-150	2011022	03/11/20	03/11/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2011024	03/11/20	03/11/20	EPA 300.0/9056A	
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Spur	Project Name:	Twelve Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/12/20 15:32

Sp5-4'
P003054-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.3 %		50-150	2011022	03/11/20	03/11/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011021	03/11/20	03/11/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011021	03/11/20	03/11/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		83.7 %		50-200	2011021	03/11/20	03/11/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.5 %		50-150	2011022	03/11/20	03/11/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2011024	03/11/20	03/11/20	EPA 300.0/9056A	
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Spur	Project Name:	Twelve Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/12/20 15:32

Sp6-6'
P003054-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.8 %		50-150	2011022	03/11/20	03/11/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	35.1	25.0	mg/kg	1	2011021	03/11/20	03/11/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011021	03/11/20	03/11/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		83.8 %		50-200	2011021	03/11/20	03/11/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.1 %		50-150	2011022	03/11/20	03/11/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2011024	03/11/20	03/11/20	EPA 300.0/9056A	
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Spur	Project Name:	Twelve Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/12/20 15:32

Sp7-4'
P003054-07 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %		50-150	2011022	03/11/20	03/11/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011021	03/11/20	03/11/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011021	03/11/20	03/11/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		60.2 %		50-200	2011021	03/11/20	03/11/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011022	03/11/20	03/11/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.3 %		50-150	2011022	03/11/20	03/11/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2011024	03/11/20	03/11/20	EPA 300.0/9056A	
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Spur	Project Name:	Twelve Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/12/20 15:32

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2011022 - Purge and Trap EPA 5030A

Blank (2011022-BLK1)

Prepared & Analyzed: 03/11/20 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							

Surrogate: 4-Bromochlorobenzene-PID 8.81 " 8.00 110 50-150

LCS (2011022-BS1)

Prepared & Analyzed: 03/11/20 1

Benzene	4.68	0.0250	mg/kg	5.00		93.6	70-130			
Toluene	4.90	0.0250	"	5.00		98.0	70-130			
Ethylbenzene	4.99	0.0250	"	5.00		99.8	70-130			
p,m-Xylene	9.98	0.0500	"	10.0		99.8	70-130			
o-Xylene	5.08	0.0250	"	5.00		102	70-130			
Total Xylenes	15.1	0.0250	"	15.0		100	0-200			

Surrogate: 4-Bromochlorobenzene-PID 8.59 " 8.00 107 50-150

Matrix Spike (2011022-MS1)

Source: P003053-01

Prepared: 03/11/20 1 Analyzed: 03/12/20 1

Benzene	4.38	0.0250	mg/kg	5.00	ND	87.5	54.3-133			
Toluene	4.72	0.0250	"	5.00	ND	94.5	61.4-130			
Ethylbenzene	4.86	0.0250	"	5.00	ND	97.3	61.4-133			
p,m-Xylene	9.73	0.0500	"	10.0	ND	97.3	63.3-131			
o-Xylene	4.91	0.0250	"	5.00	ND	98.2	63.3-131			
Total Xylenes	14.6	0.0250	"	15.0	ND	97.6	0-200			

Surrogate: 4-Bromochlorobenzene-PID 8.72 " 8.00 109 50-150

Matrix Spike Dup (2011022-MSD1)

Source: P003053-01

Prepared & Analyzed: 03/11/20 1

Benzene	4.53	0.0250	mg/kg	5.00	ND	90.7	54.3-133	3.54	20	
Toluene	4.76	0.0250	"	5.00	ND	95.3	61.4-130	0.842	20	
Ethylbenzene	4.85	0.0250	"	5.00	ND	97.1	61.4-133	0.191	20	
p,m-Xylene	9.70	0.0500	"	10.0	ND	97.0	63.3-131	0.264	20	
o-Xylene	4.89	0.0250	"	5.00	ND	97.8	63.3-131	0.424	20	
Total Xylenes	14.6	0.0250	"	15.0	ND	97.3	0-200	0.318	200	

Surrogate: 4-Bromochlorobenzene-PID 8.65 " 8.00 108 50-150

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Spur	Project Name:	Twelve Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/12/20 15:32

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2011021 - DRO Extraction EPA 3570

Blank (2011021-BLK1)

Prepared: 03/11/20 0 Analyzed: 03/11/20 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	42.9		"	50.0		85.7	50-200			

LCS (2011021-BS1)

Prepared: 03/11/20 0 Analyzed: 03/11/20 1

Diesel Range Organics (C10-C28)	397	25.0	mg/kg	500		79.5	38-132			
Surrogate: n-Nonane	43.5		"	50.0		87.0	50-200			

Matrix Spike (2011021-MS1)

Source: P003053-01

Prepared: 03/11/20 0 Analyzed: 03/11/20 1

Diesel Range Organics (C10-C28)	397	25.0	mg/kg	500	ND	79.4	38-132			
Surrogate: n-Nonane	42.7		"	50.0		85.4	50-200			

Matrix Spike Dup (2011021-MSD1)

Source: P003053-01

Prepared: 03/11/20 0 Analyzed: 03/12/20 1

Diesel Range Organics (C10-C28)	411	25.0	mg/kg	500	ND	82.1	38-132	3.39	20	
Surrogate: n-Nonane	44.7		"	50.0		89.3	50-200			

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Spur	Project Name:	Twelve Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/12/20 15:32

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2011022 - Purge and Trap EPA 5030A

Blank (2011022-BLK1)

Prepared & Analyzed: 03/11/20 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		"	8.00		95.9	50-150			

LCS (2011022-BS2)

Prepared & Analyzed: 03/11/20 1

Gasoline Range Organics (C6-C10)	49.0	20.0	mg/kg	50.0		98.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		"	8.00		95.9	50-150			

Matrix Spike (2011022-MS2)

Source: P003053-01

Prepared & Analyzed: 03/11/20 1

Gasoline Range Organics (C6-C10)	45.5	20.0	mg/kg	50.0	ND	91.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		"	8.00		95.2	50-150			

Matrix Spike Dup (2011022-MSD2)

Source: P003053-01

Prepared & Analyzed: 03/11/20 1

Gasoline Range Organics (C6-C10)	47.3	20.0	mg/kg	50.0	ND	94.6	70-130	3.90	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		"	8.00		94.9	50-150			

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Spur	Project Name:	Twelve Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/12/20 15:32

Anions by 300.0/9056A - Quality Control**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2011024 - Anion Extraction EPA 300.0/9056A**Blank (2011024-BLK1)**

Prepared & Analyzed: 03/11/20 1

Chloride ND 20.0 mg/kg

LCS (2011024-BS1)

Prepared & Analyzed: 03/11/20 1

Chloride 253 20.0 mg/kg 250 101 90-110

Matrix Spike (2011024-MS1)**Source: P003054-01**

Prepared & Analyzed: 03/11/20 1

Chloride 308 20.0 mg/kg 250 49.9 103 80-120

Matrix Spike Dup (2011024-MSD1)**Source: P003054-01**

Prepared & Analyzed: 03/11/20 1

Chloride 309 20.0 mg/kg 250 49.9 104 80-120 0.357 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.

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Spur	Project Name:	Twelve Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/12/20 15:32

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- ** Methods marked with ** are non-accredited methods.
- Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Project Information

Chain of Custody

Page 1 of 1

Client: <u>Spur</u>					Bill To					Lab Use Only				TAT		EPA Program				
Project: <u>Two We Pack</u>					Attention: <u>Natali Gladden</u>					Lab WO# <u>P003054</u>				Job Number <u>19054-0003</u>		1D	3D	RCRA	CWA	SDWA
Project Manager: <u>Linsey Salgado</u>					Address:					Analysis and Method						State				
Address:					City, State, Zip															
City, State, Zip					Phone:															
Phone:					Email: <u>Ngladden@hungry-horse.com</u>															
Email: <u>lsalgado@hungry-horse.com</u>					Report due by:															
Report due by:																				
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	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					
8:30	3/8/20	S	1	Sp1-4'	1									U						
9:25	3/8/20			Sp2-4'	2									U						
11:27	3/8/20			Sp3-14'	3									U						
12:24	3/8/20			Sp4-6'	4									U						
1:37	3/8/20			Sp5-4'	5									U						
2:11	3/8/20			Sp6-6'	6									U						
2:33	3/8/20			Sp7-4'	7									U						
Additional Instructions:																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only								
<u>[Signature]</u>		3/9/20		0630		<u>Kathy Triviera</u>		3/9/20		0630		Received on ice: <u>Y</u> N								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3								
<u>[Signature]</u>		3/10/20		1100		<u>[Signature]</u>		3-10-2020		1100										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C								
<u>[Signature]</u>		3-10-2020		1515		<u>Rain Lopez</u>		3/10/20		9:40		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.																				



5795 US Highway 64, Farmington, NM 87401
24 Hour Emergency Response Phone: (800) 362-1879

Ph (505) 632-1881 Fx (505) 632-1865

envirotech-inc.com
labadmin@envirotech-inc.com



Analytical Report

Report Summary

Client: Spur

Samples Received: 3/12/2020

Job Number: 19054-0003

Work Order: P003062

Project Name/Location: 12-Pack

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue rectangular background.

Date: 3/13/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



Spur	Project Name:	12-Pack	Reported: 03/13/20 14:08
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sp8-4	P003062-01A	Soil	03/08/20	03/12/20	Glass Jar, 4 oz.
Sp9-4	P003062-02A	Soil	03/08/20	03/12/20	Glass Jar, 4 oz.
Sp10-4	P003062-03A	Soil	03/08/20	03/12/20	Glass Jar, 4 oz.
Sp11-4	P003062-04A	Soil	03/08/20	03/12/20	Glass Jar, 4 oz.
SW1-2'	P003062-05A	Soil	03/08/20	03/12/20	Glass Jar, 4 oz.
SW2-2'	P003062-06A	Soil	03/08/20	03/12/20	Glass Jar, 4 oz.
SW3-2	P003062-07A	Soil	03/08/20	03/12/20	Glass Jar, 4 oz.
SW4-2	P003062-08A	Soil	03/08/20	03/12/20	Glass Jar, 4 oz.
SW5-2	P003062-09A	Soil	03/08/20	03/12/20	Glass Jar, 4 oz.
SW6-2	P003062-10A	Soil	03/08/20	03/12/20	Glass Jar, 4 oz.

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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/13/20 14:08

Sp8-4
P003062-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>109 %</i>		<i>50-150</i>	<i>2011032</i>	<i>03/12/20</i>	<i>03/12/20</i>	<i>EPA 8021B</i>	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011034	03/12/20	03/12/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011034	03/12/20	03/12/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		<i>103 %</i>		<i>50-200</i>	<i>2011034</i>	<i>03/12/20</i>	<i>03/12/20</i>	<i>EPA 8015D</i>	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>92.5 %</i>		<i>50-150</i>	<i>2011032</i>	<i>03/12/20</i>	<i>03/12/20</i>	<i>EPA 8015D</i>	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2011033	03/12/20	03/12/20	EPA 300.0/9056A	
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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/13/20 14:08

Sp9-4
P003062-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>109 %</i>		<i>50-150</i>	<i>2011032</i>	<i>03/12/20</i>	<i>03/12/20</i>	<i>EPA 8021B</i>	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011034	03/12/20	03/12/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011034	03/12/20	03/12/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		<i>89.3 %</i>		<i>50-200</i>	<i>2011034</i>	<i>03/12/20</i>	<i>03/12/20</i>	<i>EPA 8015D</i>	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>94.4 %</i>		<i>50-150</i>	<i>2011032</i>	<i>03/12/20</i>	<i>03/12/20</i>	<i>EPA 8015D</i>	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2011033	03/12/20	03/12/20	EPA 300.0/9056A	
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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/13/20 14:08

Sp10-4
P003062-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %		50-150	2011032	03/12/20	03/12/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011034	03/12/20	03/12/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011034	03/12/20	03/12/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		86.0 %		50-200	2011034	03/12/20	03/12/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.2 %		50-150	2011032	03/12/20	03/12/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	37.2	20.0	mg/kg	1	2011033	03/12/20	03/12/20	EPA 300.0/9056A	
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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/13/20 14:08

Sp11-4
P003062-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>110 %</i>		<i>50-150</i>	<i>2011032</i>	<i>03/12/20</i>	<i>03/12/20</i>	<i>EPA 8021B</i>	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011034	03/12/20	03/12/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011034	03/12/20	03/12/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		<i>88.6 %</i>		<i>50-200</i>	<i>2011034</i>	<i>03/12/20</i>	<i>03/12/20</i>	<i>EPA 8015D</i>	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>94.0 %</i>		<i>50-150</i>	<i>2011032</i>	<i>03/12/20</i>	<i>03/12/20</i>	<i>EPA 8015D</i>	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2011033	03/12/20	03/12/20	EPA 300.0/9056A	
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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/13/20 14:08

SW1-2'
P003062-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		109 %		50-150	2011032	03/12/20	03/12/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011034	03/12/20	03/12/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011034	03/12/20	03/12/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		85.2 %		50-200	2011034	03/12/20	03/12/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.2 %		50-150	2011032	03/12/20	03/12/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2011033	03/12/20	03/12/20	EPA 300.0/9056A	
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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/13/20 14:08

SW2-2'
P003062-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>110 %</i>		<i>50-150</i>	<i>2011032</i>	<i>03/12/20</i>	<i>03/12/20</i>	<i>EPA 8021B</i>	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011034	03/12/20	03/12/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011034	03/12/20	03/12/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		<i>86.7 %</i>		<i>50-200</i>	<i>2011034</i>	<i>03/12/20</i>	<i>03/12/20</i>	<i>EPA 8015D</i>	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>93.2 %</i>		<i>50-150</i>	<i>2011032</i>	<i>03/12/20</i>	<i>03/12/20</i>	<i>EPA 8015D</i>	

Anions by 300.0/9056A

Chloride	26.3	20.0	mg/kg	1	2011033	03/12/20	03/12/20	EPA 300.0/9056A	
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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/13/20 14:08

SW3-2
P003062-07 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %		50-150	2011032	03/12/20	03/12/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011034	03/12/20	03/12/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011034	03/12/20	03/12/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		86.5 %		50-200	2011034	03/12/20	03/12/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.8 %		50-150	2011032	03/12/20	03/12/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2011033	03/12/20	03/12/20	EPA 300.0/9056A	
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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/13/20 14:08

SW4-2
P003062-08 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %		50-150	2011032	03/12/20	03/12/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011034	03/12/20	03/12/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011034	03/12/20	03/12/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		80.3 %		50-200	2011034	03/12/20	03/12/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.1 %		50-150	2011032	03/12/20	03/12/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2011033	03/12/20	03/12/20	EPA 300.0/9056A	
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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/13/20 14:08

SW5-2
P003062-09 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %		50-150	2011032	03/12/20	03/12/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011034	03/12/20	03/12/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011034	03/12/20	03/12/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		82.5 %		50-200	2011034	03/12/20	03/12/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.9 %		50-150	2011032	03/12/20	03/12/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2011033	03/12/20	03/12/20	EPA 300.0/9056A	
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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/13/20 14:08

SW6-2
P003062-10 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %		50-150	2011032	03/12/20	03/12/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011034	03/12/20	03/12/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011034	03/12/20	03/12/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		82.4 %		50-200	2011034	03/12/20	03/12/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011032	03/12/20	03/12/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.5 %		50-150	2011032	03/12/20	03/12/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2011033	03/12/20	03/12/20	EPA 300.0/9056A	
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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/13/20 14:08

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2011032 - Purge and Trap EPA 5030A

Blank (2011032-BLK1)

Prepared: 03/12/20 0 Analyzed: 03/12/20 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							

Surrogate: 4-Bromochlorobenzene-PID	8.45		"	8.00		106	50-150			
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LCS (2011032-BS1)

Prepared: 03/12/20 0 Analyzed: 03/12/20 1

Benzene	4.41	0.0250	mg/kg	5.00		88.2	70-130			
Toluene	4.79	0.0250	"	5.00		95.9	70-130			
Ethylbenzene	4.96	0.0250	"	5.00		99.2	70-130			
p,m-Xylene	9.90	0.0500	"	10.0		99.0	70-130			
o-Xylene	5.01	0.0250	"	5.00		100	70-130			
Total Xylenes	14.9	0.0250	"	15.0		99.4	0-200			

Surrogate: 4-Bromochlorobenzene-PID	8.70		"	8.00		109	50-150			
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Matrix Spike (2011032-MS1)

Source: P003058-01

Prepared: 03/12/20 0 Analyzed: 03/12/20 1

Benzene	4.25	0.0250	mg/kg	5.00	ND	85.0	54.3-133			
Toluene	4.64	0.0250	"	5.00	ND	92.8	61.4-130			
Ethylbenzene	4.81	0.0250	"	5.00	ND	96.2	61.4-133			
p,m-Xylene	9.61	0.0500	"	10.0	ND	96.1	63.3-131			
o-Xylene	4.86	0.0250	"	5.00	ND	97.1	63.3-131			
Total Xylenes	14.5	0.0250	"	15.0	ND	96.4	0-200			

Surrogate: 4-Bromochlorobenzene-PID	8.89		"	8.00		111	50-150			
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Matrix Spike Dup (2011032-MSD1)

Source: P003058-01

Prepared: 03/12/20 0 Analyzed: 03/12/20 1

Benzene	4.34	0.0250	mg/kg	5.00	ND	86.8	54.3-133	2.04	20	
Toluene	4.74	0.0250	"	5.00	ND	94.7	61.4-130	2.03	20	
Ethylbenzene	4.92	0.0250	"	5.00	ND	98.3	61.4-133	2.20	20	
p,m-Xylene	9.82	0.0500	"	10.0	ND	98.2	63.3-131	2.18	20	
o-Xylene	4.97	0.0250	"	5.00	ND	99.4	63.3-131	2.28	20	
Total Xylenes	14.8	0.0250	"	15.0	ND	98.6	0-200	2.21	200	

Surrogate: 4-Bromochlorobenzene-PID	8.67		"	8.00		108	50-150			
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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/13/20 14:08

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2011034 - DRO Extraction EPA 3570

Blank (2011034-BLK1)

Prepared & Analyzed: 03/12/20 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	44.3		"	50.0		88.5	50-200			

LCS (2011034-BS1)

Prepared & Analyzed: 03/12/20 1

Diesel Range Organics (C10-C28)	442	25.0	mg/kg	500		88.3	38-132			
Surrogate: n-Nonane	48.5		"	50.0		97.1	50-200			

Matrix Spike (2011034-MS1)

Source: P003062-01

Prepared & Analyzed: 03/12/20 1

Diesel Range Organics (C10-C28)	425	25.0	mg/kg	500	ND	85.1	38-132			
Surrogate: n-Nonane	46.3		"	50.0		92.6	50-200			

Matrix Spike Dup (2011034-MSD1)

Source: P003062-01

Prepared & Analyzed: 03/12/20 1

Diesel Range Organics (C10-C28)	421	25.0	mg/kg	500	ND	84.2	38-132	1.01	20	
Surrogate: n-Nonane	46.1		"	50.0		92.3	50-200			

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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/13/20 14:08

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2011032 - Purge and Trap EPA 5030A

Blank (2011032-BLK1)

Prepared: 03/12/20 0 Analyzed: 03/12/20 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		"	8.00		92.5	50-150			

LCS (2011032-BS2)

Prepared: 03/12/20 0 Analyzed: 03/12/20 1

Gasoline Range Organics (C6-C10)	48.8	20.0	mg/kg	50.0		97.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		"	8.00		95.6	50-150			

Matrix Spike (2011032-MS2)

Source: P003058-01

Prepared: 03/12/20 0 Analyzed: 03/12/20 1

Gasoline Range Organics (C6-C10)	46.8	20.0	mg/kg	50.0	ND	93.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		"	8.00		94.0	50-150			

Matrix Spike Dup (2011032-MSD2)

Source: P003058-01

Prepared: 03/12/20 0 Analyzed: 03/12/20 1

Gasoline Range Organics (C6-C10)	47.5	20.0	mg/kg	50.0	ND	95.0	70-130	1.52	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		"	8.00		94.8	50-150			

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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/13/20 14:08

Anions by 300.0/9056A - Quality Control**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2011033 - Anion Extraction EPA 300.0/9056A**Blank (2011033-BLK1)**

Prepared & Analyzed: 03/12/20 1

Chloride ND 20.0 mg/kg

LCS (2011033-BS1)

Prepared & Analyzed: 03/12/20 1

Chloride 253 20.0 mg/kg 250 101 90-110

Matrix Spike (2011033-MS1)**Source: P003062-01**

Prepared & Analyzed: 03/12/20 1

Chloride 257 20.0 mg/kg 250 ND 103 80-120

Matrix Spike Dup (2011033-MSD1)**Source: P003062-01**

Prepared & Analyzed: 03/12/20 1

Chloride 255 20.0 mg/kg 250 ND 102 80-120 0.629 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.

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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/13/20 14:08

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Project Information

Chain of Custody

Page 1 of 1

Client: <u>SPUR</u>					Bill To					Lab Use Only				TAT		EPA Program							
Project: <u>12-pack</u>					Attention: <u>Natalie Gladdeu</u>					Lab WO# <u>P003062</u>				Job Number <u>19054-0003</u>		1D	3D	RCRA	CWA	SDWA			
Project Manager: <u>Luis Salgado</u>					Address:					Analysis and Method										State			
Address:					City, State, Zip															NM CO UT AZ			
City, State, Zip					Phone:															TX OK			
Phone:					Email: <u>Ngladdeu@hugobor.com</u>																		
Report due by:																							
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BDOC - NM	BDOC - TX				Remarks				
8:29	3/8/20	S	1	Sp8-4	1									Y									
9:00				Sp9-4	2									Y									
9:23				Sp10-4	3									Y									
9:49				Sp11-4	4									Y									
10:23				SW1-2	5									Y									
11:13				SW2-2	6									Y									
11:43				SW3-2	7									Y									
12:17				SW4-2	8									Y									
1:20				SW5-2	9									Y									
1:48				SW6-2	10									Y									
Additional Instructions:																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.													
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only											
<u>[Signature]</u>		3/11/20		0600		<u>[Signature]</u>		3/11/20		0600		Received on ice: <u>Y</u> / N											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3											
<u>[Signature]</u>		3/11/20		1250		<u>[Signature]</u>		3-11-2020		1250													
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4</u>											
<u>[Signature]</u>		3-11-2020		1510		<u>[Signature]</u>		3/12/20		9:45													
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.																							



Analytical Report

Report Summary

Client: Spur

Samples Received: 3/13/2020

Job Number: 19054-0003

Work Order: P003072

Project Name/Location: 12-Pack

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue rectangular background.

Date: 3/16/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



Spur	Project Name:	12-Pack	Reported: 03/16/20 16:43
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Background North	P003072-01A	Soil	03/11/20	03/13/20	Glass Jar, 4 oz.
Background South	P003072-02A	Soil	03/11/20	03/13/20	Glass Jar, 4 oz.

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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/16/20 16:43

**Background North
P003072-01 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2011045	03/13/20	03/13/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011045	03/13/20	03/13/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011045	03/13/20	03/13/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011045	03/13/20	03/13/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011045	03/13/20	03/13/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011045	03/13/20	03/13/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.1 %		50-150	2011045	03/13/20	03/13/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011044	03/13/20	03/13/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011044	03/13/20	03/13/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		85.0 %		50-200	2011044	03/13/20	03/13/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011045	03/13/20	03/13/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.4 %		50-150	2011045	03/13/20	03/13/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2011041	03/13/20	03/13/20	EPA 300.0/9056A	
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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/16/20 16:43

**Background South
P003072-02 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2011045	03/13/20	03/13/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011045	03/13/20	03/13/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011045	03/13/20	03/13/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011045	03/13/20	03/13/20	EPA 8021B	
o-Xylene	0.0284	0.0250	mg/kg	1	2011045	03/13/20	03/13/20	EPA 8021B	
Total Xylenes	0.0284	0.0250	mg/kg	1	2011045	03/13/20	03/13/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>107 %</i>		<i>50-150</i>	<i>2011045</i>	<i>03/13/20</i>	<i>03/13/20</i>	<i>EPA 8021B</i>	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011044	03/13/20	03/13/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011044	03/13/20	03/13/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		<i>84.5 %</i>		<i>50-200</i>	<i>2011044</i>	<i>03/13/20</i>	<i>03/13/20</i>	<i>EPA 8015D</i>	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011045	03/13/20	03/13/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>86.1 %</i>		<i>50-150</i>	<i>2011045</i>	<i>03/13/20</i>	<i>03/13/20</i>	<i>EPA 8015D</i>	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2011041	03/13/20	03/13/20	EPA 300.0/9056A	
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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/16/20 16:43

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2011045 - Purge and Trap EPA 5030A

Blank (2011045-BLK1)

Prepared & Analyzed: 03/13/20 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.36		"	8.00		104	50-150			

LCS (2011045-BS1)

Prepared & Analyzed: 03/13/20 1

Benzene	5.00	0.0250	mg/kg	5.00		99.9	70-130			
Toluene	5.12	0.0250	"	5.00		102	70-130			
Ethylbenzene	5.08	0.0250	"	5.00		102	70-130			
p,m-Xylene	10.1	0.0500	"	10.0		101	70-130			
o-Xylene	5.04	0.0250	"	5.00		101	70-130			
Total Xylenes	15.1	0.0250	"	15.0		101	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.66		"	8.00		108	50-150			

Matrix Spike (2011045-MS1)

Source: P003066-01

Prepared: 03/13/20 1 Analyzed: 03/16/20 1

Benzene	5.03	0.0250	mg/kg	5.00	ND	101	54.3-133			
Toluene	5.08	0.0250	"	5.00	ND	102	61.4-130			
Ethylbenzene	4.96	0.0250	"	5.00	ND	99.1	61.4-133			
p,m-Xylene	9.83	0.0500	"	10.0	ND	98.3	63.3-131			
o-Xylene	4.97	0.0250	"	5.00	ND	99.4	63.3-131			
Total Xylenes	14.8	0.0250	"	15.0	ND	98.7	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.01		"	8.00		100	50-150			

Matrix Spike Dup (2011045-MSD1)

Source: P003066-01

Prepared & Analyzed: 03/13/20 1

Benzene	5.01	0.0250	mg/kg	5.00	ND	100	54.3-133	0.382	20	
Toluene	5.07	0.0250	"	5.00	ND	101	61.4-130	0.0975	20	
Ethylbenzene	5.04	0.0250	"	5.00	ND	101	61.4-133	1.64	20	
p,m-Xylene	9.99	0.0500	"	10.0	ND	99.9	63.3-131	1.59	20	
o-Xylene	4.98	0.0250	"	5.00	ND	99.7	63.3-131	0.265	20	
Total Xylenes	15.0	0.0250	"	15.0	ND	99.8	0-200	1.15	200	
Surrogate: 4-Bromochlorobenzene-PID	8.77		"	8.00		110	50-150			

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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/16/20 16:43

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2011044 - DRO Extraction EPA 3570

Blank (2011044-BLK1)

Prepared & Analyzed: 03/13/20 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	42.6		"	50.0		85.1	50-200			

LCS (2011044-BS1)

Prepared & Analyzed: 03/13/20 1

Diesel Range Organics (C10-C28)	448	25.0	mg/kg	500		89.6	38-132			
Surrogate: n-Nonane	47.3		"	50.0		94.6	50-200			

Matrix Spike (2011044-MS1)

Source: P003072-01

Prepared & Analyzed: 03/13/20 1

Diesel Range Organics (C10-C28)	422	25.0	mg/kg	500	ND	84.4	38-132			
Surrogate: n-Nonane	40.4		"	50.0		80.8	50-200			

Matrix Spike Dup (2011044-MSD1)

Source: P003072-01

Prepared & Analyzed: 03/13/20 1

Diesel Range Organics (C10-C28)	418	25.0	mg/kg	500	ND	83.5	38-132	0.991	20	
Surrogate: n-Nonane	40.1		"	50.0		80.3	50-200			

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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/16/20 16:43

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2011045 - Purge and Trap EPA 5030A

Blank (2011045-BLK1)

Prepared & Analyzed: 03/13/20 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.88		"	8.00		86.0	50-150			

LCS (2011045-BS2)

Prepared & Analyzed: 03/13/20 1

Gasoline Range Organics (C6-C10)	44.6	20.0	mg/kg	50.0		89.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.88		"	8.00		86.0	50-150			

Matrix Spike (2011045-MS2)

Source: P003066-01

Prepared & Analyzed: 03/13/20 1

Gasoline Range Organics (C6-C10)	46.0	20.0	mg/kg	50.0	ND	92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.08		"	8.00		88.5	50-150			

Matrix Spike Dup (2011045-MSD2)

Source: P003066-01

Prepared & Analyzed: 03/13/20 1

Gasoline Range Organics (C6-C10)	47.3	20.0	mg/kg	50.0	ND	94.5	70-130	2.64	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.08		"	8.00		88.4	50-150			

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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/16/20 16:43

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2011041 - Anion Extraction EPA 300.0/9056A

Blank (2011041-BLK1)				Prepared: 03/13/20 0 Analyzed: 03/14/20 0						
Chloride	ND	20.0	mg/kg							
LCS (2011041-BS1)				Prepared: 03/13/20 0 Analyzed: 03/13/20 1						
Chloride	252	20.0	mg/kg	250		101	90-110			
Matrix Spike (2011041-MS1)				Source: P003065-01 Prepared: 03/13/20 0 Analyzed: 03/13/20 1						
Chloride	283	20.0	mg/kg	250	30.4	101	80-120			
Matrix Spike Dup (2011041-MSD1)				Source: P003065-01 Prepared: 03/13/20 0 Analyzed: 03/13/20 1						
Chloride	285	20.0	mg/kg	250	30.4	102	80-120	0.518	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.

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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/16/20 16:43

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Project Information

Chain of Custody

Page 1 of 1

Client: <u>SPUR</u>					Bill To					Lab Use Only				TAT		EPA Program							
Project: <u>12 pack</u>					Attention: <u>Natalie Alm</u>					Lab WO# <u>P003092</u>				Job Number <u>19054-0003</u>		1D	3D	RCRA	CWA	SDWA			
Project Manager: <u>Lindsay Salgado</u>					Address:					Analysis and Method										State			
Address:					City, State, Zip					DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0								
City, State, Zip					Phone:																		
Phone:					Email: <u>NJaladder@hms-hors.com</u>																		
Email: <u>1salgado@hms-hors.com</u>					Report due by:																		
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number																		
10:15	3/11/20	S	1	Background North	1																		
10:30	3/11/20	S	1	Background South	2																		

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <u>Y</u> / N T1 T2 T3 AVG Temp °C <u>4</u>
<u>[Signature]</u>	<u>3/11/20</u>		<u>[Signature]</u>	<u>3/11/20</u>		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<u>[Signature]</u>	<u>3/12/20</u>	<u>10:30</u>	<u>[Signature]</u>	<u>3-12-2020</u>	<u>1030</u>	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<u>[Signature]</u>	<u>3/12/2020</u>	<u>1500</u>	<u>Raina Lopez</u>	<u>3/13/20</u>	<u>10:30</u>	

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.



5796 US Highway 64, Farmington, NM 87401
24 Hour Emergency Response Phone: (800) 362-1879

Ph (505) 632-1881 Fx (505) 632-1865

envirotech-inc.com
labadmin@envirotech-inc.com



Analytical Report

Report Summary

Client: Spur

Samples Received: 3/19/2020

Job Number: 19054-0003

Work Order: P003098

Project Name/Location: 12-Pack

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue horizontal line.

Date: 3/19/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
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Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



Spur	Project Name:	12-Pack	Reported: 03/19/20 15:55
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Composite Mix	P003098-01A	Soil	03/16/20	03/19/20	Glass Jar, 4 oz.
SW1- Composite	P003098-02A	Soil	03/16/20	03/19/20	Glass Jar, 4 oz.
SW2- Composite	P003098-03A	Soil	03/16/20	03/19/20	Glass Jar, 4 oz.
SW3- Composite	P003098-04A	Soil	03/16/20	03/19/20	Glass Jar, 4 oz.
SW4- Composite	P003098-05A	Soil	03/16/20	03/19/20	Glass Jar, 4 oz.

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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/19/20 15:55

**Composite Mix
P003098-01 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	2012025	03/19/20	03/19/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	134	25.0	mg/kg	1	2012019	03/19/20	03/19/20	EPA 8015D	
Oil Range Organics (C28-C40)	159	50.0	mg/kg	1	2012019	03/19/20	03/19/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		81.3 %		50-200	2012019	03/19/20	03/19/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.6 %		50-150	2012025	03/19/20	03/19/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2012026	03/19/20	03/19/20	EPA 300.0/9056A	
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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/19/20 15:55

**SW1- Composite
P003098-02 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %		50-150	2012025	03/19/20	03/19/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2012019	03/19/20	03/19/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2012019	03/19/20	03/19/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		74.9 %		50-200	2012019	03/19/20	03/19/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.5 %		50-150	2012025	03/19/20	03/19/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2012026	03/19/20	03/19/20	EPA 300.0/9056A	
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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/19/20 15:55

**SW2- Composite
P003098-03 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %		50-150	2012025	03/19/20	03/19/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2012019	03/19/20	03/19/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2012019	03/19/20	03/19/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		82.5 %		50-200	2012019	03/19/20	03/19/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.7 %		50-150	2012025	03/19/20	03/19/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2012026	03/19/20	03/19/20	EPA 300.0/9056A	
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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/19/20 15:55

**SW3- Composite
P003098-04 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %		50-150	2012025	03/19/20	03/19/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2012019	03/19/20	03/19/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2012019	03/19/20	03/19/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		74.1 %		50-200	2012019	03/19/20	03/19/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.9 %		50-150	2012025	03/19/20	03/19/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2012026	03/19/20	03/19/20	EPA 300.0/9056A	
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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/19/20 15:55

**SW4- Composite
P003098-05 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %		50-150	2012025	03/19/20	03/19/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2012019	03/19/20	03/19/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2012019	03/19/20	03/19/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		80.8 %		50-200	2012019	03/19/20	03/19/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2012025	03/19/20	03/19/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.4 %		50-150	2012025	03/19/20	03/19/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2012026	03/19/20	03/19/20	EPA 300.0/9056A	
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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/19/20 15:55

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2012025 - Purge and Trap EPA 5030A

Blank (2012025-BLK1)

Prepared & Analyzed: 03/18/20 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.09		"	8.00		101	50-150			

LCS (2012025-BS1)

Prepared & Analyzed: 03/18/20 1

Benzene	5.10	0.0250	mg/kg	5.00		102	70-130			
Toluene	5.12	0.0250	"	5.00		102	70-130			
Ethylbenzene	5.12	0.0250	"	5.00		102	70-130			
p,m-Xylene	10.2	0.0500	"	10.0		102	70-130			
o-Xylene	5.12	0.0250	"	5.00		102	70-130			
Total Xylenes	15.4	0.0250	"	15.0		102	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.40		"	8.00		105	50-150			

Matrix Spike (2012025-MS1)

Source: P003095-01

Prepared & Analyzed: 03/18/20 1

Benzene	5.21	0.0250	mg/kg	5.00	ND	104	54.3-133			
Toluene	5.23	0.0250	"	5.00	ND	105	61.4-130			
Ethylbenzene	5.23	0.0250	"	5.00	ND	105	61.4-133			
p,m-Xylene	10.4	0.0500	"	10.0	ND	104	63.3-131			
o-Xylene	5.23	0.0250	"	5.00	ND	105	63.3-131			
Total Xylenes	15.7	0.0250	"	15.0	ND	104	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.43		"	8.00		105	50-150			

Matrix Spike Dup (2012025-MSD1)

Source: P003095-01

Prepared & Analyzed: 03/18/20 1

Benzene	5.04	0.0250	mg/kg	5.00	ND	101	54.3-133	3.23	20	
Toluene	5.04	0.0250	"	5.00	ND	101	61.4-130	3.67	20	
Ethylbenzene	5.03	0.0250	"	5.00	ND	101	61.4-133	3.80	20	
p,m-Xylene	10.1	0.0500	"	10.0	ND	101	63.3-131	3.77	20	
o-Xylene	5.05	0.0250	"	5.00	ND	101	63.3-131	3.52	20	
Total Xylenes	15.1	0.0250	"	15.0	ND	101	0-200	3.68	200	
Surrogate: 4-Bromochlorobenzene-PID	8.52		"	8.00		106	50-150			

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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/19/20 15:55

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2012019 - DRO Extraction EPA 3570

Blank (2012019-BLK1)

Prepared & Analyzed: 03/18/20 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	43.7		"	50.0		87.3	50-200			

LCS (2012019-BS1)

Prepared: 03/18/20 1 Analyzed: 03/18/20 2

Diesel Range Organics (C10-C28)	432	25.0	mg/kg	500		86.4	38-132			
Surrogate: n-Nonane	46.0		"	50.0		92.0	50-200			

Matrix Spike (2012019-MS1)

Source: P003096-01

Prepared: 03/18/20 1 Analyzed: 03/18/20 2

Diesel Range Organics (C10-C28)	419	25.0	mg/kg	500	ND	83.9	38-132			
Surrogate: n-Nonane	44.9		"	50.0		89.7	50-200			

Matrix Spike Dup (2012019-MSD1)

Source: P003096-01

Prepared: 03/18/20 1 Analyzed: 03/18/20 2

Diesel Range Organics (C10-C28)	424	25.0	mg/kg	500	ND	84.8	38-132	1.08	20	
Surrogate: n-Nonane	44.0		"	50.0		87.9	50-200			

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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/19/20 15:55

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2012025 - Purge and Trap EPA 5030A

Blank (2012025-BLK1)

Prepared & Analyzed: 03/18/20 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		"	8.00		94.6	50-150			

LCS (2012025-BS2)

Prepared & Analyzed: 03/18/20 1

Gasoline Range Organics (C6-C10)	47.1	20.0	mg/kg	50.0		94.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		"	8.00		92.8	50-150			

Matrix Spike (2012025-MS2)

Source: P003095-01

Prepared & Analyzed: 03/18/20 1

Gasoline Range Organics (C6-C10)	47.1	20.0	mg/kg	50.0	ND	94.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		"	8.00		95.1	50-150			

Matrix Spike Dup (2012025-MSD2)

Source: P003095-01

Prepared & Analyzed: 03/18/20 1

Gasoline Range Organics (C6-C10)	47.3	20.0	mg/kg	50.0	ND	94.6	70-130	0.442	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		"	8.00		94.3	50-150			

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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/19/20 15:55

Anions by 300.0/9056A - Quality Control**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2012026 - Anion Extraction EPA 300.0/9056A**Blank (2012026-BLK1)**

Prepared & Analyzed: 03/19/20 0

Chloride	ND	20.0	mg/kg							
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LCS (2012026-BS1)

Prepared: 03/19/20 0 Analyzed: 03/19/20 1

Chloride	252	20.0	mg/kg	250		101	90-110			
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Matrix Spike (2012026-MS1)**Source: P003097-01**

Prepared: 03/19/20 0 Analyzed: 03/19/20 1

Chloride	262	20.0	mg/kg	250	ND	105	80-120			
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Matrix Spike Dup (2012026-MSD1)**Source: P003097-01**

Prepared: 03/19/20 0 Analyzed: 03/19/20 1

Chloride	261	20.0	mg/kg	250	ND	104	80-120	0.210	20	
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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.

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Spur	Project Name:	12-Pack	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	03/19/20 15:55

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Analytical Laboratory

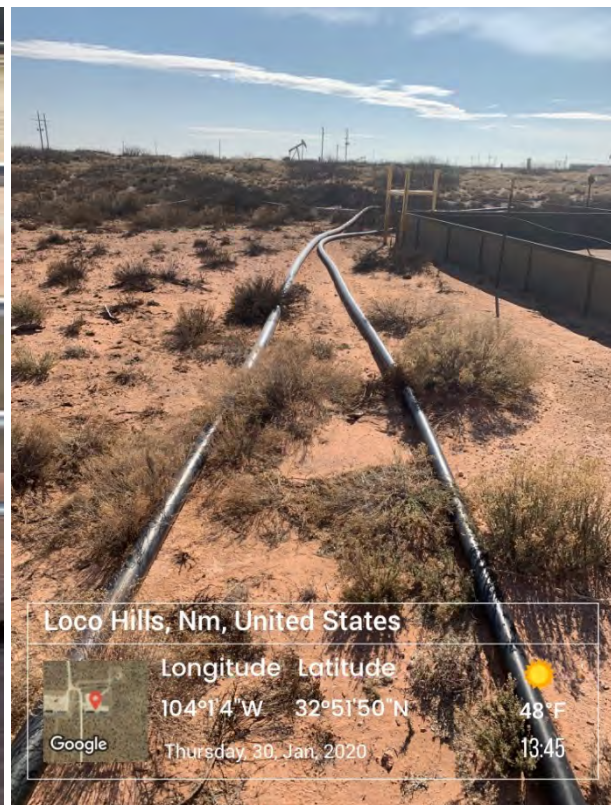
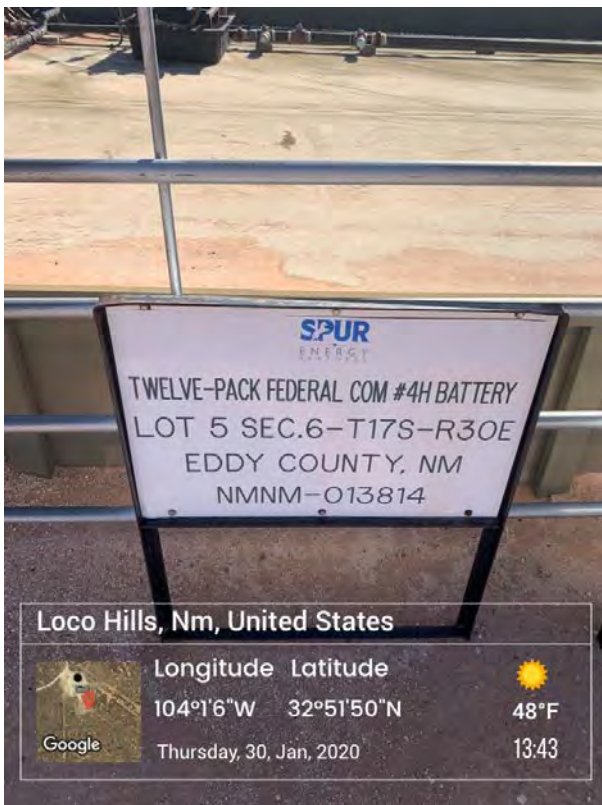
Ph (505) 632-1881 Fx (505) 632-1855

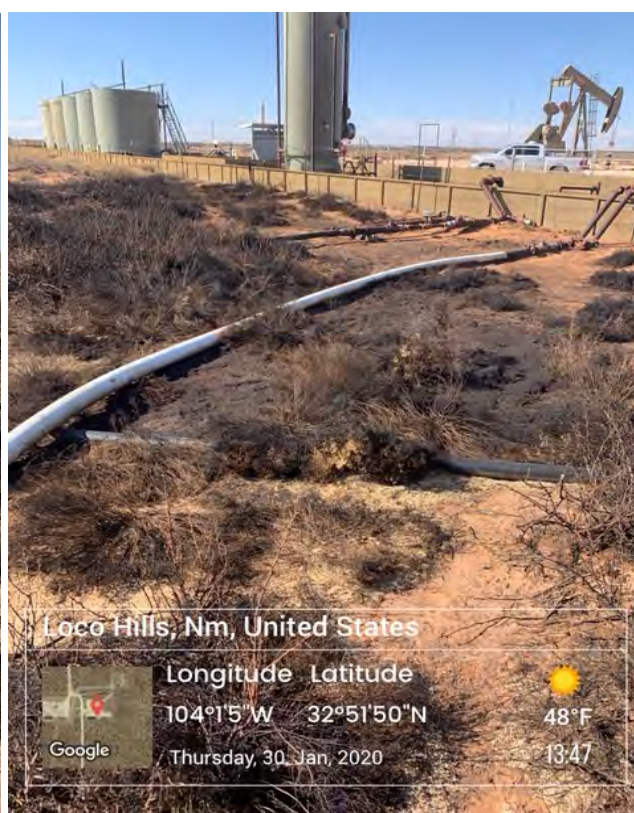
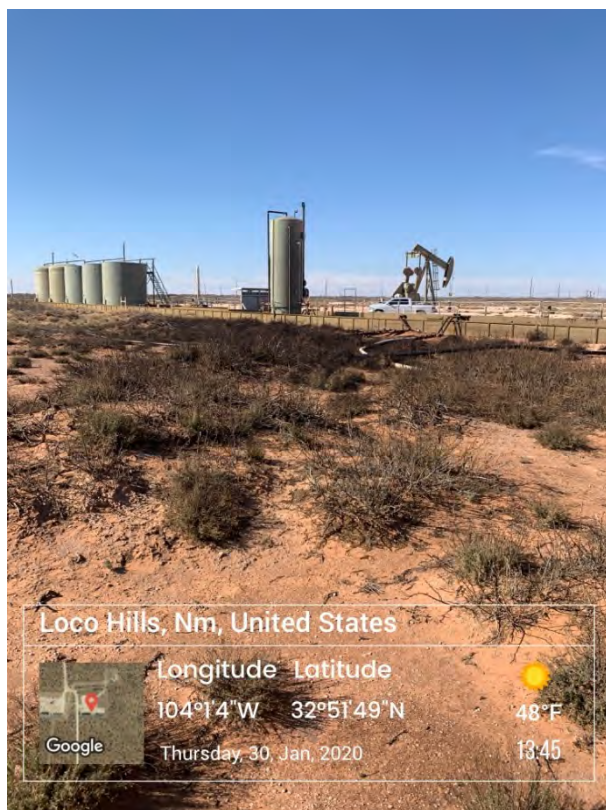
envirotech-inc.com
labadmin@envirotech-inc.com

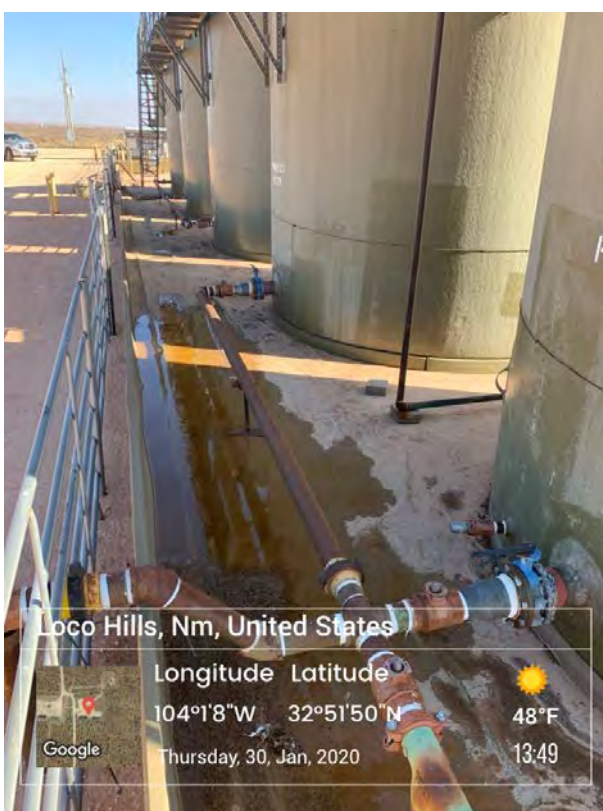
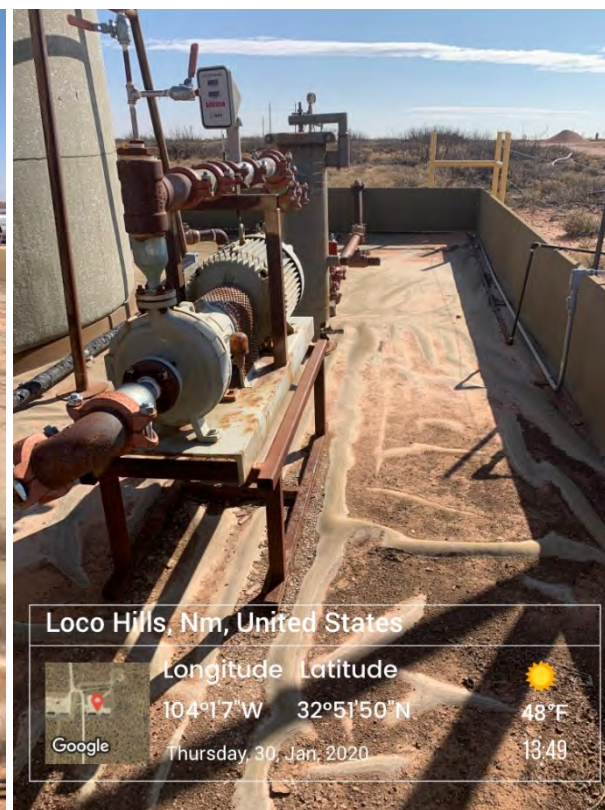


TWELVE-PACK FEDERAL COM #4H BATTERY

BEGINNING PHOTOS – RELEASE DATE 10/06/2019









TWELVE-PACK FEDERAL COM #4H BATTERY
DURING PHOTOS – RELEASE DATE 10/06/2019











TWELVE PACK FEDERAL COM #4H BATTERY

FINAL PHOTOS – RELEASE DATE 10/06/2019





Incident ID	
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?	80' (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 1/2-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.

State of New Mexico
Oil Conservation Division

Incident ID	
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: Natalie Gladden Title: Environmental and Regulatory Director

Signature:

Natalie Gladden

Date:

5-13-2020

email: ngladden@hungry-horse.com

Telephone: 575-390-6397

OCD Only

Received by: _____

Date: _____

Incident ID	
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.

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Printed Name: Natalie Gladden Title: Environmental and Regulatory Director

Signature: Natalie Gladden Date: 5-13-2020

email: nagladden@hungry-horse.com Telephone: 575-390-6397

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Incident ID	
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: Natalie Gladden Title: Director of Environmental and Regulatory

Signature:  Date: 5-13-20

email: ngladden@hungry-horse.com Telephone: 575-390-6397

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: _____

natalie@energystaffingllc.com

From: natalie@energystaffingllc.com
Sent: Tuesday, August 18, 2020 4:38 PM
To: 'Hamlet, Robert, EMNRD'
Subject: FW: Closure Denied - Spur - Twelve Pack Fed Com LBB #4H - (Incident #NRM1931853815) (2RP-5695)
Attachments: Closure Denied - Spur - Twelve Pack Fed Com LBB #4H.pdf

Can you give me a call when you have time so we can discuss this site. Thank you, your time is appreciated.

Natalie Gladden

Director Of Environmental and Regulatory Services

Energy Staffing Services, LLC.

#7 Compress Rd

Artesia, NM 88210

Cell: 575-390-6397

Email: natalie@energystaffingllc.com



From: Braidy Moulder <bmoulder@spurepllc.com>
Sent: Monday, August 17, 2020 2:44 PM
To: natalie@energystaffingllc.com
Subject: FW: Closure Denied - Spur - Twelve Pack Fed Com LBB #4H - (Incident #NRM1931853815) (2RP-5695)

Braidy Moulder
EHS Manager
Spur Energy Partners
bmoulder@spurepllc.com
Mobile 713-264-2517

From: Daniel Dominguez <ddominguez@hungry-horse.com>
Sent: Monday, August 17, 2020 1:45 PM
To: Braidy Moulder <bmoulder@spurepllc.com>
Cc: Kenny Kidd <kkidd@spurepllc.com>; Jerry Mathews <jmathews@spurepllc.com>
Subject: FW: Closure Denied - Spur - Twelve Pack Fed Com LBB #4H - (Incident #NRM1931853815) (2RP-5695)

[EXTERNAL]
Mr. Moulder,

I wasn't sure if you had received this communication from the NMOCD or not. Robert added my email and directed their response to me as he knows Natalie no longer works here.

We can provide a cost estimate to complete the work the NMOCD requires if you would like.

Respectfully,

Daniel Dominguez
Sr. Project Manager
Hungry Horse, LLC
(mobile) 575-441-2504
ddominguez@hungry-horse.com

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Friday, August 14, 2020 10:27 AM
To: Natalie Gladden <ngladden@hungry-horse.com>; Daniel Dominguez <ddominguez@hungry-horse.com>
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>; Eads, Cristina, EMNRD <Cristina.Eads@state.nm.us>; CFO_Spill, BLM_NM <BLM_NM_CFO_Spill@blm.gov>
Subject: Closure Denied - Spur - Twelve Pack Fed Com LBB #4H - (Incident #NRM1931853815) (2RP-5695)

Daniel,

We have received your closure report and final C-141 for **Incident #NRM1931853815** Twelve Pack Fed Com LBB #4H, thank you. This closure is denied.

- When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less.
- If you feel the depth to groundwater is >50', a shallow borehole can be drilled to 51' allowing for verification of the depth. If water is not visible after reaching bottom-hole and waiting 72 hours, the OCD will accept this as evidence. We would just need a copy of the driller's log.
- Most of the clean samples were located 4'-6' below ground surface. The report says, "It was agreed between Spur Energy and Hungry Horse, LLC that 6" bgs would be excavated from the impacted area". The OCD requires that excavation occur down to the first clean sample point. Micro-Blaze was applied, which may only clean up the top few inches depending on the amount applied. Closure criteria sampling will need to show samples tested for **all components** in Table 1 of the OCD Spill Rule. The OCD cannot accept field screening results from Petro FLAG Analyzer Systems, PID Meters, and Ground Conductivity Meters for closure criteria sampling determination. Sampling in 1 foot increments makes it easier and more cost effective in figuring out what depth to excavate to. The lack of BTEX and TPH data down to 4'-6', where the clean samples occurred is insufficient and will need to be addressed with additional lab analytical verified sampling.
- The release area has not been vertically delineated. Sample point SP3 was excavated down to 14 feet and had a TPH value of 3940 mg/kg. If the deepest sample point is still over closure criteria standards, it's not vertically delineated.
- Please upload new remediation/closure report after additional delineation and sampling has occurred.

Please let me know if you have any further questions.

Regards,

Robert J Hamlet
State of New Mexico
Energy, Minerals, and Natural Resources
Oil Conservation Division
811 S. First St., Artesia NM 88210
(575) 748-1283
Robert.Hamlet@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Disclaimer

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Soil Map—Eddy Area, New Mexico
(Twelve Pack Fed Com LBB #4H)Natural Resources
Conservation ServiceWeb Soil Survey
National Cooperative Soil Survey3/2/2021
Page 1 of 3

Soil Map—Eddy Area, New Mexico
(Twelve Pack Fed Com LBB #4H)

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.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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 16, Jun 8, 2020

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.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KM	Kermit-Berino fine sands, 0 to 3 percent slopes	6.7	88.1%
SG	Simona gravelly fine sandy loam, 0 to 3 percent slopes	0.9	11.9%
Totals for Area of Interest		7.6	100.0%

SPUR ENERGY PARTNERS

TWELVE PACK FEDERAL COM LBB #4H
BOREHOLE MAP

Legend

- BOREHOLE (32.864765 -104.018878)
- TWELVE PACK FEDERAL COM LBB #4H

BOREHOLE (32.864765 -104.018878)

TWELVE PACK FEDERAL COM LBB #4H

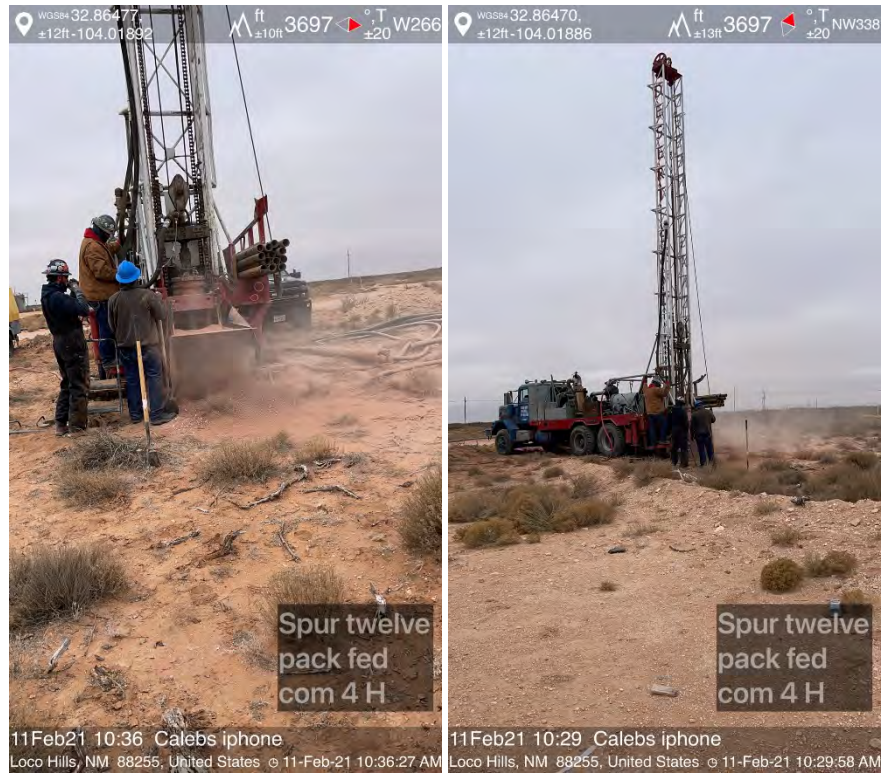


200 ft



TWELVE PACK FEDERAL COM LBB #004H
BORING RIG PHOTOS





Incident ID	
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: Natalie Gladden Title: Director of Environmental and Regulatory

Signature:  Date: 3/3/21

email: natalie@energystaffingllc.com Telephone: 575-390-6397

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: _____

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 438108

QUESTIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 438108
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM1931853815
Incident Name	NRM1931853815 TWELVE PACK FEDERAL COM LBB #004H @ 30-015-40966
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-40966] TWELVE PACK FEDERAL COM LBB #004H

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	TWELVE PACK FEDERAL COM LBB #004H
Date Release Discovered	10/06/2019
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Release Other
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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Gasket Crude Oil Released: 20 BBL Recovered: 19 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Gasket Produced Water Released: 50 BBL Recovered: 48 BBL Lost: 2 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	GASKET FAILURE ON THE FIRE TUBE CAUSED A RELEASE INTO LINED CONTAINMENT WITH OVERSPRAY INTO THE PASTURE

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

QUESTIONS, Page 2

Action 438108

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 438108
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	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: 03/03/2025
--	--

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 3

Action 438108

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	438108
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Site Characterization	
<i>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.</i>	
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	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
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	
<i>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.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	160
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
<i>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>	
On what estimated date will the remediation commence	09/08/2024
On what date will (or did) the final sampling or liner inspection occur	09/10/2024
On what date will (or was) the remediation complete(d)	09/10/2024
What is the estimated surface area (in square feet) that will be reclaimed	200
What is the estimated volume (in cubic yards) that will be reclaimed	112
What is the estimated surface area (in square feet) that will be remediated	200
What is the estimated volume (in cubic yards) that will be remediated	112
<i>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.</i>	
<i>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.</i>	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

QUESTIONS, Page 4

Action 438108

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 438108
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(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.
<i>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>	
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: 03/03/2025
<i>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.</i>	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 5

Action 438108

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 438108
	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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Action 438108

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 438108
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	381064
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/10/2024
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	200

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
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	200
What was the total volume (cubic yards) remediated	112
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	200
What was the total volume (in cubic yards) reclaimed	112
Summarize any additional remediation activities not included by answers (above)	LINER WAS POWERWASHED AND INSPECTED AND FOUND TO HAVE THE ABILITY TO CONTAIN FLUIDS ALL CONTAMINATED SOILS IN THE PASTURE WERE REMOVED TO MEET THE RECLAMATION STANDARD
<i>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>	
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: 03/03/2025

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Action 438108

QUESTIONS (continued)

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	Action Number: 438108
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 438108

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 438108
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Remediation closure is approved.	4/9/2025
michael.buchanan	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	4/9/2025
michael.buchanan	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	4/9/2025
michael.buchanan	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	4/9/2025
michael.buchanan	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	4/9/2025
michael.buchanan	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	4/9/2025