

Pima Environmental Services 5614 N. Lovington Highway **Hobbs, NM 88240** 575-964-7740

June 22, 2022

NMOCD District 2 811 S. First Street Artesia, NM 88210

Bureau of Land Management 620 East Green Street Carlsbad, NM 88220

Re: **Remediation and Closure Report**

> Ross Ranch 22 #014H API No. 30-015-45695

GPS: Latitude 32.636384 Longitude -104.478333

ULSTR - D-27-T19S-R25E **Eddy County, NM**

NMOCD Ref. No. NRM2023854921

Spur Energy Partners (Spur) has contracted Pima Environmental Services, LLC (Pima) to perform a remediation and submit this closure report for a produced water release that occurred at the Ross Ranch 22 #014H (Ross). The initial C-141 was submitted on August 25, 2020 (Appendix C). This incident was assigned Incident ID NRM2023854921, by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Ross is located approximately fourteen and half (14.5) miles south and west of Artesia, NM. This spill site is in Unit D, Section 27, Township 19S, Range 25E, Latitude 32.636384 Longitude -104.478333, Eddy County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is made up of Piedmont alluvial deposits. Includes deposits of higher gradient tributaries bordering major stream valleys, alluvial veneers of the piedmont slope, and alluvial fans. May locally include uppermost Pliocene deposits. The soil in this area is made up of Reagan loam, 0 to 3 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well-drained. There is a medium potential for karst geology to be present around the Ross (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 60 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 364 feet BGS. The closest waterway is Brantley Lake located approximately 6.32 miles to the southeast of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29									
Depth to Groundwater	Constituent & Limits								
(Appendix A)	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene				
<50' (Lack of GW data)	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg				
51-100′	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg				
>100′	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg				

Reference Figure 2 for a Topographic Map.

Release Information

NRM2023854921: On August 22, 2020, A welded 4" line developed a pin hole from corrosion, causing a release of mixed oil and water. All fluid remained inside the containment. The volume of the release was calculated to be approximately 6 barrels (bbls) of fluid. A hydro vac truck was dispatched and recovered approximately 3 bbsl of fluid.

Site Assessment and Soil Sampling Results

Site Assessment

On October 7, 2020, Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Discrete surface soil samples were collected within and around the impacted area utilizing a hand auger. Further vertical delineation could not take place due to auger refusal as well as the proximity of infrastructure. Results from our sampling event are presented in the following data table. A complete laboratory report can be found in Appendix V.

Table 1: Soil Sample Analysis

	Tubio 1. con cumple Analysis								
Sample ID	Depth (ft.)	Date	BTEX (mg/kg)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	Cl (mg/kg)
1.5	losure Cr 15.29.12	6.756.67	50 mg/kg	10 mg/kg	1,000	mg/kg		2,500 mg/kg	10,000 mg/kg
S-1	0 R	10/7/2020	ND	ND	63.6	13900	3390	17353.6	24000
S-2	0 R	10/7/2020	ND	ND	ND	9730	3350	13080.0	1920
S-3	0 R	10/7/2020	ND	ND	ND	17200	5410	22610.0	13600
S-4	0 R	10/7/2020	ND	ND	ND	42400	11300	53700.0	65600
S-5	0 R	10/7/2020	ND	ND	ND	13600	4750	18350.0	4480
5-6	0 R	10/7/2020	ND	ND	ND	53800	16900	70700.0	39600
S-7	0 R	10/7/2020	ND	ND	ND	34400	9770	44170.0	39600
S-8	0 R	10/7/2020	0.572	ND	103	36800	9800	46703.0	44800
BG-1	0	10/7/2020	ND	ND	ND	ND	ND		16
BG-2	0	10/7/2020	ND	ND	ND	ND	ND		80
BG-3	0	10/7/2020	ND	ND	ND	ND	ND	1-	80
BG-4	0	10/7/2020	ND	ND	ND	ND	ND	2	48

ND= Analyte Not Detected R= Hand Auger Refusal

On February 4, 2021, Talon submitted a remediation plan to the NMOCD. This plan was approved by the NMOCD on April 1, 2021. The approved plan can be found in Appendix F.

Remediation Activities

On May 31, 2022, Pima mobilized personnel and equipment to the site to remediate the area by executing the remediation plan. A total of approximately 75 cubic yards of contaminated material was removed by hands with hand tools. See Appendix D for Photographic Documentation.

On June 9, 2022, after sending a 48-hour notification, Pima returned to collect confirmation samples of the excavated area. The laboratory results of this sampling event can be found in the following table. A Confirmation Sample Map can be found in Figure 5.

6-9-2022 Confirmation Soil Sample Results

NMC	CD Table	1 Closure	Criteria 19.1	5.29 NM	AC - DTGW	/ is <50' (F	ligh Karst)						
		Spu	r Energy - Re	oss Ranch	22 #14H								
Date: 6-9-2022			NM Approved Laboratory Results										
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg					
CS-1	1'	ND	ND	ND	ND	ND	0	ND					
CS-2	1'	ND	ND	ND	ND	ND	0	ND					
CS-3	1'	ND	ND	ND	ND	ND	0	ND					
CS-4	1'	ND	ND	ND	ND	ND	0	ND					
CS-5	1'	ND	ND	ND	ND	ND	0	ND					
CS-6	1'	ND	ND	ND	ND	ND	0	ND					
CS-7	1'	ND	ND	ND	ND	ND	0	21.5					
CS-8	1'	ND	ND	ND	ND	ND	0	ND					
CS-9	1'	ND	ND	ND	ND	ND	0	ND					
CS-10	1'	ND	ND	ND	ND	ND	0	ND					
CSW-1	1'	ND	ND	ND	ND	ND	0	ND					
CSW-2	1'	ND	ND	ND	ND	ND	0	ND					
CSW-3	1'	ND	ND	ND	ND	ND	0	ND					
CSW-4	1'	ND	ND	ND	ND	ND	0	ND					

ND - Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

Based on the sample results, the bottom and sidewalls were below NMOCD Closure Criteria 19.15.29 NMAC. The contaminated material was transported to Lea Land, a NMOCD approved disposal site. The excavation was then backfilled with clean like material, machine compacted and contoured to match the surrounding terrain.

Closure Request

After careful review, Pima requests that this incident, NRM2023854921 be closed. Spur has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

Should you have any questions or need additional information, please feel free to contact Gio Gomez at 806-782-1151 or gio@pimaoil.com.

Respectfully,

Gio Gomez

Gio Gomez **Environmental Project Manager** Pima Environmental Services, LLC

Attachments

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Talon Site Map
- 5- Confirmation Sample Map

Appendices:

Appendix A – Referenced Water Surveys

Appendix B – Soil Survey and Geological Data

Appendix C - C-141 Form & 48-Hour Notification

Appendix D – Photographic Documentation

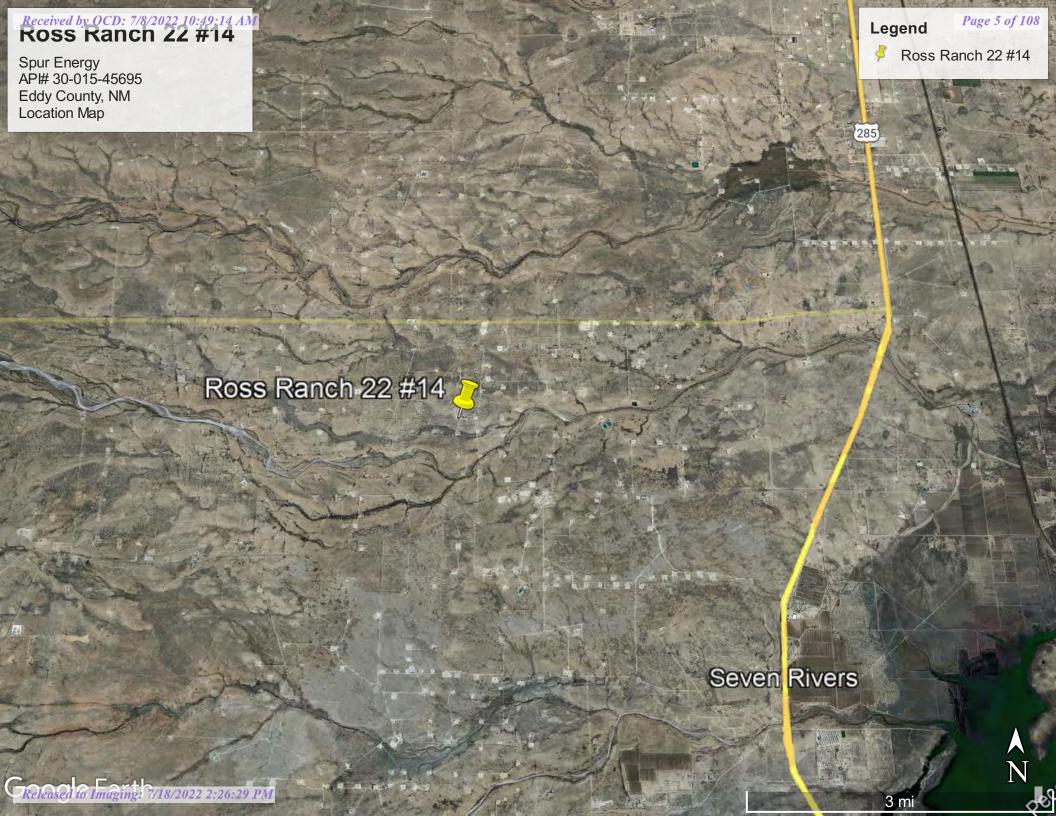
Appendix E – Laboratory Reports

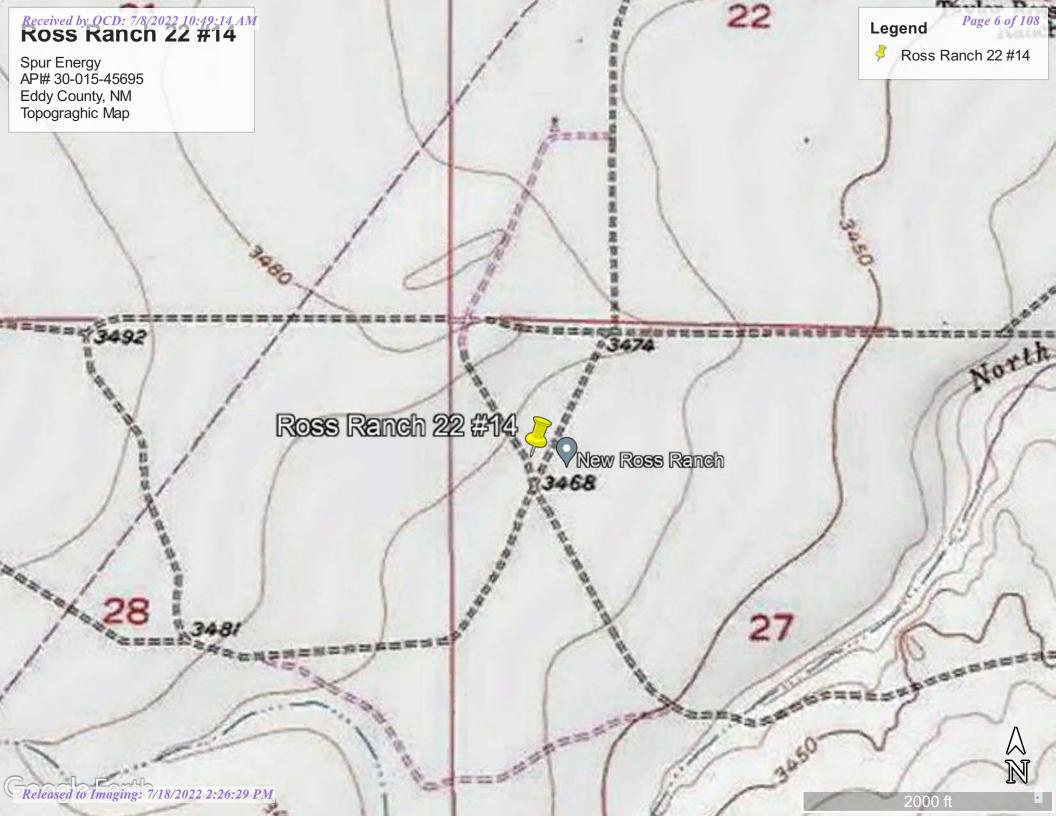
Appendix F - NMOCD Approved Remediation Plan

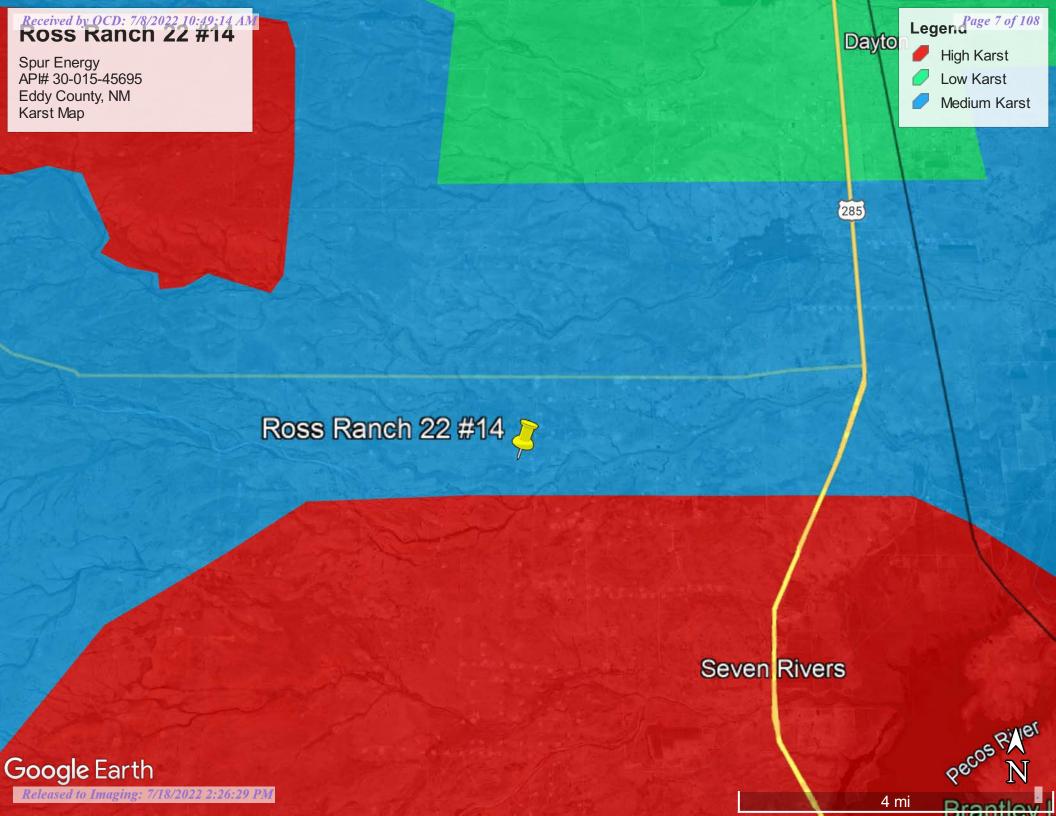


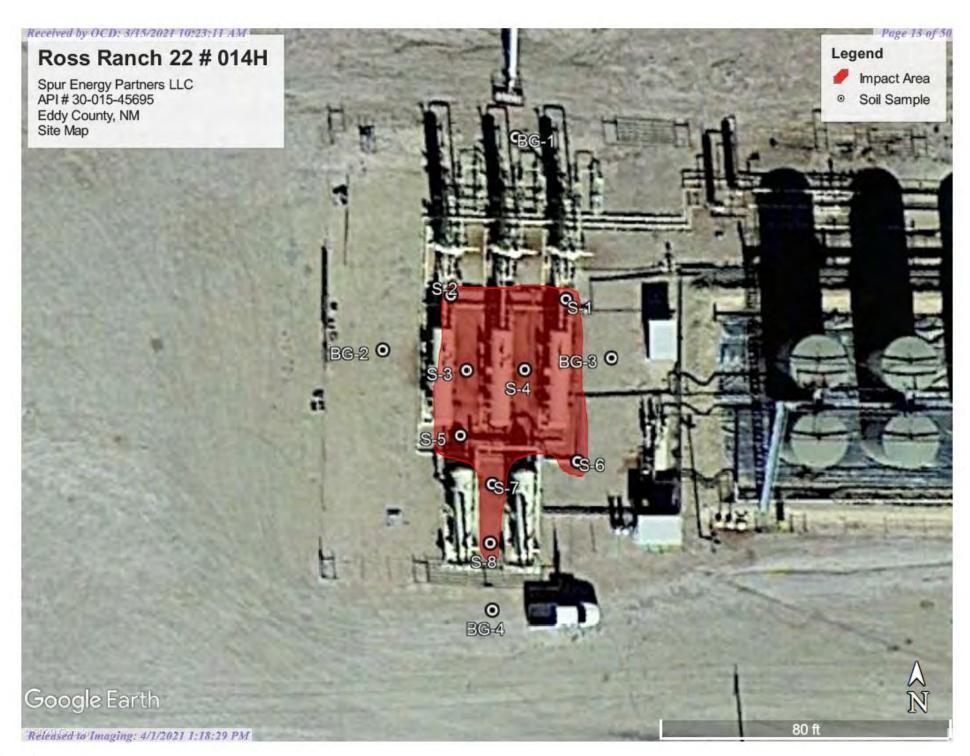
Figures:

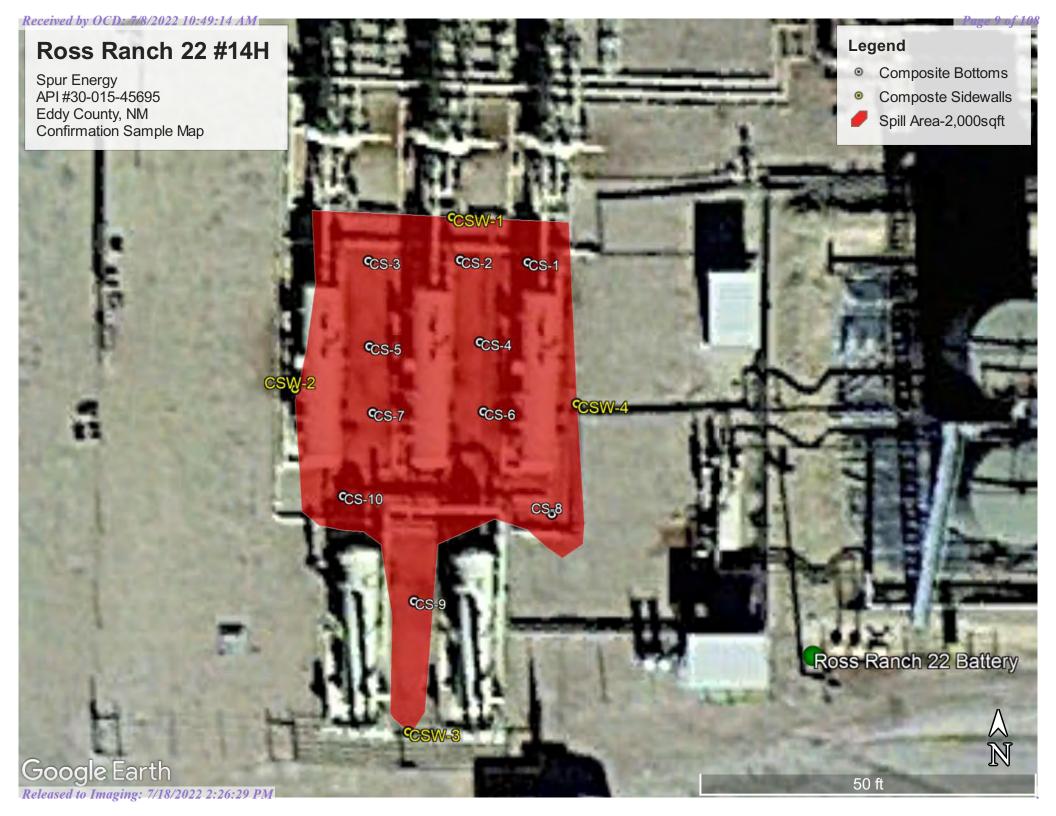
- 1 Location Map
- 2 Topographic Map
 - 3 Karst Map
 - 4 Site Map
- 5 Confirmation Sample Map













Appendix A

Water Surveys:

OSE

USGS

Surface Water Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (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 Sub-		0	Q	0								V	Vater
POD Number	Code		County				Sec	Tws	Rng	X	Y	DistanceDe	pthWellDep		
RA 03304		RA	ED			1	27	19S	25E	549081	3610973*	222	130	60	70
RA 08986		RA	ED	1	3	3	22	19S	25E	548825	3611507	454	320	220	100
RA 02909		RA	ED		1	3	22	19S	25E	548864	3611989*	933	188	130	58
RA 13122 POD2		RA	ED	3	3	2	21	19S	25E	547996	3612385	1594	108	102	6
RA 13122 POD1		RA	ED	1	3	2	21	19S	25E	547935	3612424	1660			
RA 02958		RA	ED		1	4	34	19S	25E	549681	3608740*	2451	450		
<u>RA 03018</u>		RA	ED	3	2	4	34	19S	25E	549987	3608639*	2660	530		

Average Depth to Water:

128 feet

Minimum Depth:

60 feet

Maximum Depth:

220 feet

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 548874.59 **Northing**

Northing (Y): 3611055.41 **Radius:** 3000

*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.

6/22/22 10:08 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access realtime water <u>data</u> from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

site_no list =

• 323755104352701

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323755104352701 19S.24E.28.322412

Available data for this site Groundwater: Field measurements GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°37'55", Longitude 104°35'27" NAD27

Land-surface elevation 3,707 feet above NAVD88

The depth of the well is 600 feet below land surface.

This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

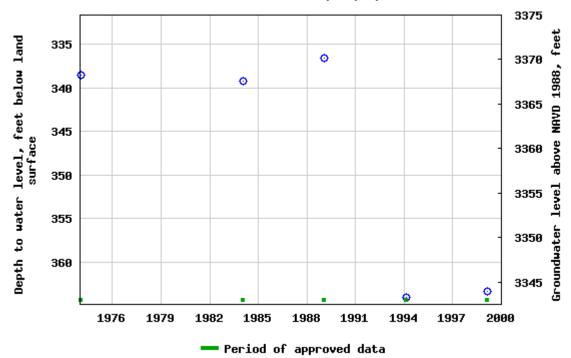
This well is completed in the San Andres Limestone (313SADR) local aquifer.

Output formats

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

Released to Imaging: 7/18/2022 2:26:29 PM

USGS 323755104352701 195,24E,28,322412



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
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Accessibility

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Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

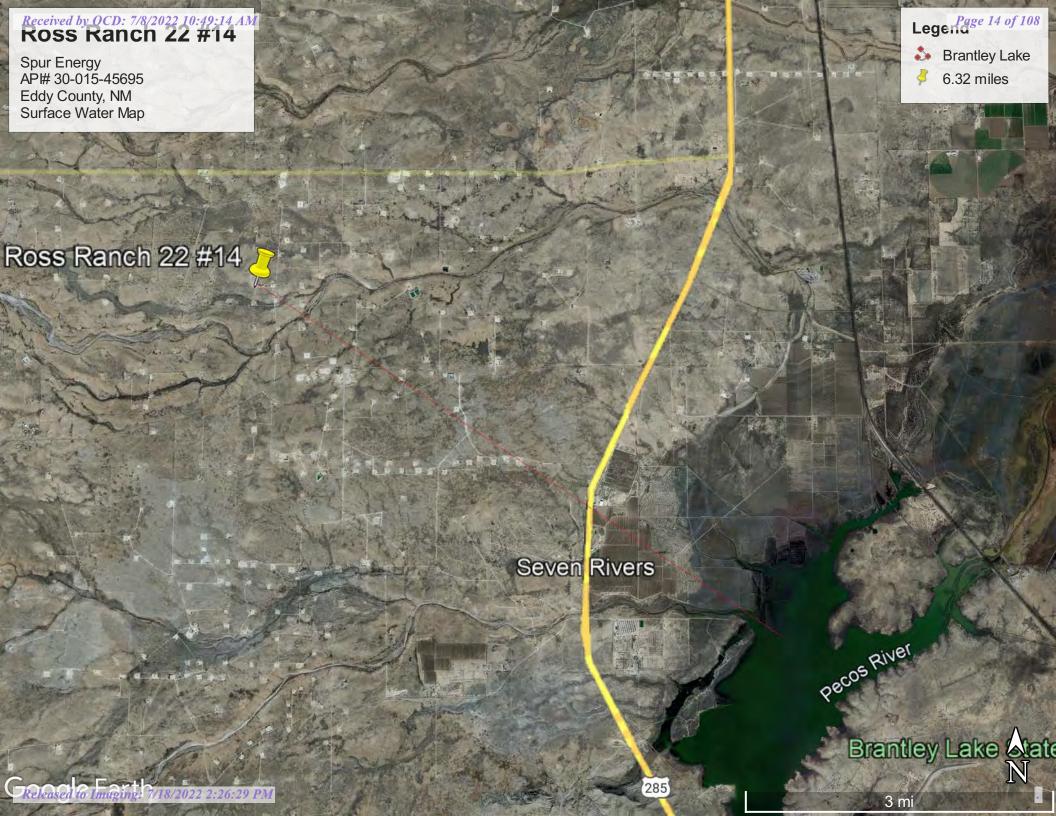
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2022-04-27 12:21:41 EDT

0.56 0.49 nadww01







Appendix B

Soil Survey & Geological Data FEMA Flood Map

Eddy Area, New Mexico

RA—Reagan loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5c Elevation: 1,100 to 4,400 feet

Mean annual precipitation: 7 to 14 inches
Mean annual air temperature: 60 to 70 degrees F

Frost-free period: 200 to 240 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Reagan and similar soils: 98 percent Minor components: 2 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Reagan

Setting

Landform: Fan remnants, alluvial fans Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam H2 - 8 to 60 inches: loam

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 moderately saline (2.0 to

8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

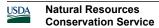
Available water supply, 0 to 60 inches: Moderate (about 8.2

inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: B



Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

Minor Components

Upton

Percent of map unit: 1 percent

Ecological site: R042XC025NM - Shallow

Hydric soil rating: No

Atoka

Percent of map unit: 1 percent

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 17, Sep 12, 2021

Received by OCD: 7/8/2022 10:49:14 AM National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE)

SPECIAL FLOOD HAZARD AREAS

With BFE or Depth Zone AE, AO, AH, VE, AR

Regulatory Floodway



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

Area with Flood Risk due to Levee Zone D

Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X

OTHER AREAS OF FLOOD HAZARD

NO SCREEN Area of Minimal Flood Hazard Zone X

Effective LOMRs

OTHER AREAS

Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer

GENERAL

STRUCTURES | LILLI Levee, Dike, or Floodwall

20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect**

Base Flood Elevation Line (BFE) Limit of Study

Jurisdiction Boundary **Coastal Transect Baseline**

OTHER **FEATURES**

Hydrographic Feature

Profile Baseline

Digital Data Available

No Digital Data Available

MAP PANELS

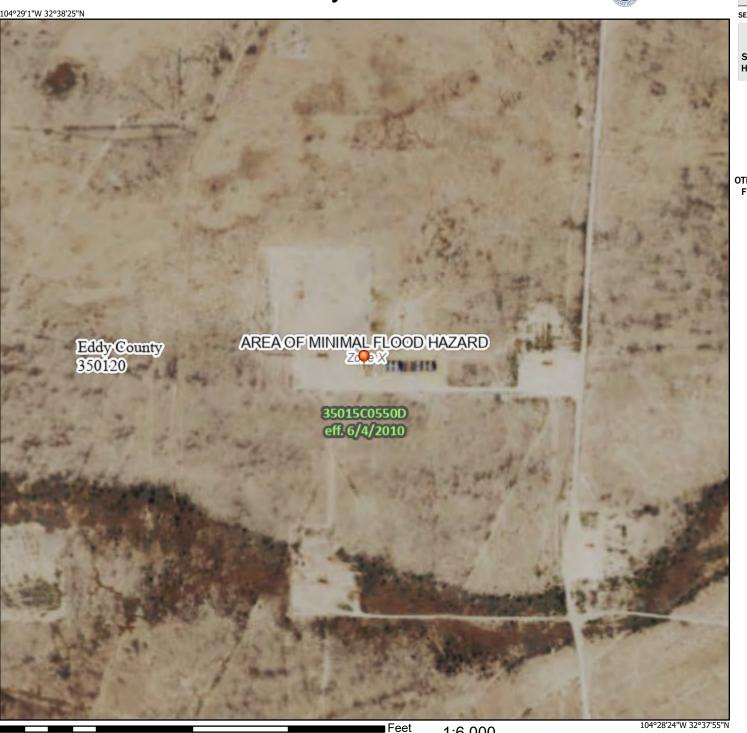
Unmapped

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 4/27/2022 at 11:28 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

C-141 Form

48-Hour Notification

Received by OCD: 3/15/2021 10:23:11 AM

District 1
1625 N. French Dr., Hobbs, NM 88240

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	NRM2023854921
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Spur Energy Partners LLC				OGRID: 328947				
Contact Name: Kenny Kidd				Contact 7	Telephone: 575-616-540	00		
Contact ema	il: kkidd@s	pureplic.com		***************************************	Incident	4 (assigned by OCD):		
Contact mai Houston, TX		: 920 Memorial Ci	ty Way Suite 10	000				
			Locatio	n of F	Release S	Source		
atitude <u>32.6</u>	536384		(NAD 83 in c	decimal de	_Longitude egrees 10 5 deci	-104.47.8333 imal places)	(location of source)	
Site Name: R	oss Ranch 2	2 #014H			Site Type:	Oil Production Battery	T .	
Date Release	Discovered	: August 22, 2020			API# (if ap	plicable) 30-015-45695		
Unit Letter	Section	Township	Range		Cou			
D D	27	19S	25E	Edd		nty		
	Material					justification for the volumes		
Crude Oil		Volume Release	` '			Volume Recovered (bbls)		
Produced	Water	Volume Release	d (bbls) 6 bbls			Volume Recovered (bbls) 3bbls		
		Is the concentrat		chloride	c in the Yes No			
Condensa	te	Volume Release				Volume Recovered (bbls)		
Natural G	as	Volume Release	d (Mcf)		Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units			de units)		Volume/Weight Reco	overed (provide units)		
						1		

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Received by OCD: 3/15/2021 10:23:11 AM

Form C-141
Page 2

State of New Mexico Oil Conservation Division

Incident ID	NRM2023854921
District-RP	
Facility ID	
Application ID	

		Application ID						
Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider	this a major release?						
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?								
	Immediate notice was provided by Kenny Kidd of Spur Energy via email to the BLM, and Victoria Venegas with the NMOCD							
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 rele	ase has been stopped.							
☐ The impacted area has been secured to protect human health and the environment.								

 ⊠ The source of the release has been stopped. ⊠ The impacted area has been secured to protect human health and Released materials have been contained via the use of berms or Mail free liquids and recoverable materials have been removed and the source of the release has been stopped. 	dikes, absorbent pads, or other containment devices.
If all the actions described above have not been undertaken, explain	why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence r has begun, please attach a narrative of actions to date. If remedial within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), p	efforts have been successfully completed or if the release occurred
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the C failed to adequately investigate and remediate contamination that pose a thre addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: Rebecca Pons Title: Project Manager	
Signature: Rebecca Pons	Date: 8/25/2020
Rpons@talonlpe.com	Telephone:
OCD Only Received by: Ramona Marcus	Date: 8/25/2020

received by OCD; 8/25/2020 10:05:17.4M

Received by OCD: 3/15/2021 10:23:11 AM State of New Mexico
Page 3 Oil Conservation Division

	Page 3 of
Incident ID	NRM2023854921
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?	60(ft bgs)				
Did this release impact groundwater or surface water?					
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?					
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?					
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No				
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No				
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No				
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?					
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No				
Are the lateral extents of the release overlying a subsurface mine?					
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No				
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No				
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No				
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and verticontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil				
Characterization Report Checklist: Each of the following items must be included in the report.					
Characterization Report Checklist: Each of the following items must be included in the report. Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody					

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

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Received by OCD: 3/15/2021 10:23:11 431 | State of New Mexico Oil Conservation Division Page 4

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Incident ID	NRM2023854921	
District RP		
Facility ID		
Application ID		

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: Brandon Sinclair	Brandon	Digitally signed by prondon Singlein DN 55 - Brandon Singlein LPE, our Environmental,	Title: Environmental Project Manager		
Signature:	Sinclair	email=bs ariansationipe.com, cetts Date 2021 03:12 12:08:02 -07/00*	Date: 2-4-2021		
email: bsinclair@talonlpe.com			Telephone: 575-746-8768		
OCD Only					
Received by:			Date:		

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Received by OCD: 3/15/2021 10:23:11 AM State of New Mexico
Page 5 Oil Conservation Division

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Incident ID	NRM2023854921	
District RP		
Facility ID		
Application ID		

Remediation Plan

D						
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) 						
<u>Deferral Requests Only</u> : Each of the following items must be con	nfirmed as part of any request for deferral of remediation.					
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility					
Extents of contamination must be fully delineated.						
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.						
Printed Name: Brandon Sinclair Brandon	Title: Environmental Project Manager					
Signature: Sinclair	Date: 2-4-2021					
email: bsinclair@talonlpe.com	Telephone: 575-746-8768					
OCD Only Chad Hensley Received by:	04/01/2021 Date:					
Approved	Approval Denied Deferral Approved					
Signature: Chad Hend	Date: 04/01/2021					

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Incident ID	NRM2023854921
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 phomust be notified 2 days prior to liner inspection)	otos of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate 0	ODC District office must be notified 2 days prior to final sampling)
☑ Description of remediation activities	
and regulations all operators are required to report and/or file ce may endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or re-	replete to the best of my knowledge and understand that pursuant to OCD rules ertain release notifications and perform corrective actions for releases which e of a C-141 report by the OCD does not relieve the operator of liability different remediate contamination that pose a threat to groundwater, surface water, e of a C-141 report does not relieve the operator of responsibility for gulations. The responsible party acknowledges they must substantially econditions that existed prior to the release or their final land use in the OCD when reclamation and re-vegetation are complete.
Printed Name: Chad Hensley	Title: HSE Coordinator
Signature:	Date: <u>6/22/2022</u>
email: chensley@spurenergy.com	Telephone: _346-339-1494
OCD Only	
Received by:	Date:
	arty of liability should their operations have failed to adequately investigate and ace water, human health, or the environment nor does not relieve the responsible and/or regulations.
Closure Approved by: Jennifer Nobui	Date: 07/18/2022
Printed Name: Jennifer Nobui	Title: Environmental Specialist A
	

From: Gio PimaOil

To: ocdonline@state.nm.us; Tom Pima Oil; Ned Pima Oil
Subject: Ross Ranch 22 #14H Sampling Confirmation

Date: Monday, June 6, 2022 9:02:39 AM

Good Morning,

Pima Environmental would like to notify you that we will be collecting confirmation samples at the Ross Ranch 22 #14H for incident NRM2023854921. Pima personnel are scheduled to be on site for this sampling event at approximately 6:00 a.m. on Thursday, June 9, 2022. If you have any questions or concerns, please let me know. Thank you.

--

Gio Gomez

Environmental Project Manager cell-806-782-1151 Office- 575-964-7740

Pima Environmental Services, LLC.



Appendix D

Photographic Documentation



SITE PHOTOGRAPHS SPUR ENERGY PARTNERS

ROSS RANCH 22 #14H

















Appendix E

Laboratory Reports

Report to:
Tom Bynum



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Ross Ranch 22 14H

Work Order: E206077

Job Number: 21068-0001

Received: 6/14/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 6/20/22

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

Date Reported: 6/20/22

Tom Bynum PO Box 247 Plains, TX 79355-0247

Project Name: Ross Ranch 22 14H

Workorder: E206077

Date Received: 6/14/2022 11:39:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/14/2022 11:39:00AM, under the Project Name: Ross Ranch 22 14H.

The analytical test results summarized in this report with the Project Name: Ross Ranch 22 14H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Alexa Michaels

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe

Lynn Jai Due

Technical Representative/Client Services

Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan

Technical Representative Office: 505-421-LABS(5227)

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Ross Ranch 22 14H	Donouted.
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	06/20/22 16:38

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-1	E206077-01A	Soil	06/09/22	06/14/22	Glass Jar, 4 oz.
CS-2	E206077-02A	Soil	06/09/22	06/14/22	Glass Jar, 4 oz.
CS-3	E206077-03A	Soil	06/09/22	06/14/22	Glass Jar, 4 oz.
CS-4	E206077-04A	Soil	06/09/22	06/14/22	Glass Jar, 4 oz.
CS-5	E206077-05A	Soil	06/09/22	06/14/22	Glass Jar, 4 oz.
CS-6	E206077-06A	Soil	06/09/22	06/14/22	Glass Jar, 4 oz.
CS-7	E206077-07A	Soil	06/09/22	06/14/22	Glass Jar, 4 oz.
CS-8	E206077-08A	Soil	06/09/22	06/14/22	Glass Jar, 4 oz.
CS-9	E206077-09A	Soil	06/09/22	06/14/22	Glass Jar, 4 oz.
CS-10	E206077-10A	Soil	06/09/22	06/14/22	Glass Jar, 4 oz.
CSW-1	E206077-11A	Soil	06/09/22	06/14/22	Glass Jar, 4 oz.
CSW-2	E206077-12A	Soil	06/09/22	06/14/22	Glass Jar, 4 oz.
CSW-3	E206077-13A	Soil	06/09/22	06/14/22	Glass Jar, 4 oz.
CSW-4	E206077-14A	Soil	06/09/22	06/14/22	Glass Jar, 4 oz.



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Ross Ranch 22 14H	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/20/2022 4:38:51PM

CS-1

E206077-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: IY	·	Batch: 2225030
Benzene	ND	0.0250	1	06/15/22	06/18/22	
Ethylbenzene	ND	0.0250	1	06/15/22	06/18/22	
Toluene	ND	0.0250	1	06/15/22	06/18/22	
o-Xylene	ND	0.0250	1	06/15/22	06/18/22	
p,m-Xylene	ND	0.0500	1	06/15/22	06/18/22	
Total Xylenes	ND	0.0250	1	06/15/22	06/18/22	
Surrogate: 4-Bromochlorobenzene-PID		83.4 %	70-130	06/15/22	06/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2225030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/15/22	06/18/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	06/15/22	06/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	Analyst: JL		Batch: 2225040
Diesel Range Organics (C10-C28)	ND	25.0	1	06/15/22	06/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/15/22	06/15/22	
Surrogate: n-Nonane		108 %	50-200	06/15/22	06/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: KL		Batch: 2225036
Chloride	ND	20.0	1	06/15/22	06/16/22	

Pima Environmental Services-Carlsbad	Project Name:	Ross Ranch 22 14H	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/20/2022 4:38:51PM

CS-2

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	llyst: IY		Batch: 2225030
Benzene	ND	0.0250	1	06/15/22	06/18/22	
Ethylbenzene	ND	0.0250	1	06/15/22	06/18/22	
Toluene	ND	0.0250	1	06/15/22	06/18/22	
o-Xylene	ND	0.0250	1	06/15/22	06/18/22	
p,m-Xylene	ND	0.0500	1	06/15/22	06/18/22	
Total Xylenes	ND	0.0250	1	06/15/22	06/18/22	
Surrogate: 4-Bromochlorobenzene-PID		82.7 %	70-130	06/15/22	06/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2225030
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/15/22	06/18/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.6 %	70-130	06/15/22	06/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2225040
Diesel Range Organics (C10-C28)	ND	25.0	1	06/15/22	06/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/15/22	06/15/22	
Surrogate: n-Nonane		108 %	50-200	06/15/22	06/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	llyst: KL		Batch: 2225036
	ND	20.0		06/15/22	06/16/22	·



Pima Environmental Services-Carlsbad	Project Name:	Ross Ranch 22 14H	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/20/2022 4:38:51PM

CS-3

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2225030
Benzene	ND	0.0250	1	06/15/22	06/18/22	
Ethylbenzene	ND	0.0250	1	06/15/22	06/18/22	
Toluene	ND	0.0250	1	06/15/22	06/18/22	
o-Xylene	ND	0.0250	1	06/15/22	06/18/22	
p,m-Xylene	ND	0.0500	1	06/15/22	06/18/22	
Total Xylenes	ND	0.0250	1	06/15/22	06/18/22	
Surrogate: 4-Bromochlorobenzene-PID		81.6 %	70-130	06/15/22	06/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2225030
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/15/22	06/18/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.1 %	70-130	06/15/22	06/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2225040
Diesel Range Organics (C10-C28)	ND	25.0	1	06/15/22	06/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/15/22	06/15/22	
Surrogate: n-Nonane		108 %	50-200	06/15/22	06/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: KL		Batch: 2225036
Chloride	ND	20.0	1	06/15/22	06/16/22	



Pima Environmental Services-Carlsbad	Project Name:	Ross Ranch 22 14H	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/20/2022 4:38:51PM

CS-4

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2225030
Benzene	ND	0.0250	1	06/15/22	06/18/22	
Ethylbenzene	ND	0.0250	1	06/15/22	06/18/22	
Toluene	ND	0.0250	1	06/15/22	06/18/22	
o-Xylene	ND	0.0250	1	06/15/22	06/18/22	
p,m-Xylene	ND	0.0500	1	06/15/22	06/18/22	
Total Xylenes	ND	0.0250	1	06/15/22	06/18/22	
Surrogate: 4-Bromochlorobenzene-PID		82.5 %	70-130	06/15/22	06/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2225030
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/15/22	06/18/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.7 %	70-130	06/15/22	06/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2225040
Diesel Range Organics (C10-C28)	ND	25.0	1	06/15/22	06/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/15/22	06/15/22	
Surrogate: n-Nonane		106 %	50-200	06/15/22	06/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: KL		Batch: 2225036
Chloride	ND	20.0	1	06/15/22	06/16/22	



Pima Environmental Services-Carlsbad	Project Name:	Ross Ranch 22 14H	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/20/2022 4:38:51PM

CS-5

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: IY	<u> </u>	Batch: 2225030
Benzene	ND	0.0250	1	06/15/22	06/18/22	
Ethylbenzene	ND	0.0250	1	06/15/22	06/18/22	
Toluene	ND	0.0250	1	06/15/22	06/18/22	
o-Xylene	ND	0.0250	1	06/15/22	06/18/22	
p,m-Xylene	ND	0.0500	1	06/15/22	06/18/22	
Total Xylenes	ND	0.0250	1	06/15/22	06/18/22	
Surrogate: 4-Bromochlorobenzene-PID		82.8 %	70-130	06/15/22	06/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2225030
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/15/22	06/18/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	06/15/22	06/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2225040
Diesel Range Organics (C10-C28)	ND	25.0	1	06/15/22	06/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/15/22	06/15/22	
Surrogate: n-Nonane		112 %	50-200	06/15/22	06/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: KL		Batch: 2225036
Chloride	ND	20.0	1	06/15/22	06/16/22	<u> </u>



Pima Environmental Services-Carlsbad	Project Name:	Ross Ranch 22 14H	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/20/2022 4:38:51PM

CS-6

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2225030
Benzene	ND	0.0250	1	06/15/22	06/18/22	
Ethylbenzene	ND	0.0250	1	06/15/22	06/18/22	
Toluene	ND	0.0250	1	06/15/22	06/18/22	
o-Xylene	ND	0.0250	1	06/15/22	06/18/22	
p,m-Xylene	ND	0.0500	1	06/15/22	06/18/22	
Total Xylenes	ND	0.0250	1	06/15/22	06/18/22	
Surrogate: 4-Bromochlorobenzene-PID		83.2 %	70-130	06/15/22	06/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2225030
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/15/22	06/18/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %	70-130	06/15/22	06/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2225040
Diesel Range Organics (C10-C28)	ND	25.0	1	06/15/22	06/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/15/22	06/15/22	
Surrogate: n-Nonane		109 %	50-200	06/15/22	06/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: KL		Batch: 2225036
Chloride	ND	20.0	1	06/15/22	06/16/22	



Pima Environmental Services-Carlsbad	Project Name:	Ross Ranch 22 14H	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/20/2022 4:38:51PM

CS-7

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: IY		Batch: 2225030
Benzene	ND	0.0250	1	06/15/22	06/18/22	
Ethylbenzene	ND	0.0250	1	06/15/22	06/18/22	
Toluene	ND	0.0250	1	06/15/22	06/18/22	
o-Xylene	ND	0.0250	1	06/15/22	06/18/22	
p,m-Xylene	ND	0.0500	1	06/15/22	06/18/22	
Total Xylenes	ND	0.0250	1	06/15/22	06/18/22	
Surrogate: 4-Bromochlorobenzene-PID		84.6 %	70-130	06/15/22	06/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2225030
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/15/22	06/18/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	06/15/22	06/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: JL		Batch: 2225040
Diesel Range Organics (C10-C28)	ND	25.0	1	06/15/22	06/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/15/22	06/15/22	
Surrogate: n-Nonane		109 %	50-200	06/15/22	06/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: KL		Batch: 2225036
thions by Elite Colors Court						



Pima Environmental Services-Carlsbad	Project Name:	Ross Ranch 22 14H	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/20/2022 4:38:51PM

CS-8

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2225030
Benzene	ND	0.0250	1	06/15/22	06/18/22	
Ethylbenzene	ND	0.0250	1	06/15/22	06/18/22	
Toluene	ND	0.0250	1	06/15/22	06/18/22	
o-Xylene	ND	0.0250	1	06/15/22	06/18/22	
p,m-Xylene	ND	0.0500	1	06/15/22	06/18/22	
Total Xylenes	ND	0.0250	1	06/15/22	06/18/22	
Surrogate: 4-Bromochlorobenzene-PID		84.0 %	70-130	06/15/22	06/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2225030
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/15/22	06/18/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.2 %	70-130	06/15/22	06/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2225040
Diesel Range Organics (C10-C28)	ND	25.0	1	06/15/22	06/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/15/22	06/15/22	
Surrogate: n-Nonane		113 %	50-200	06/15/22	06/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: KL		Batch: 2225036
-	ND	20.0		06/15/22	06/16/22	



Pima Environmental Services-Carlsbad	Project Name:	Ross Ranch 22 14H	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/20/2022 4:38:51PM

CS-9

	Reporting				
Result	Limit	Dilutio	n Prepared	Analyzed	Notes
mg/kg	mg/kg	Ar	alyst: IY		Batch: 2225030
ND	0.0250	1	06/15/22	06/18/22	
ND	0.0250	1	06/15/22	06/18/22	
ND	0.0250	1	06/15/22	06/18/22	
ND	0.0250	1	06/15/22	06/18/22	
ND	0.0500	1	06/15/22	06/18/22	
ND	0.0250	1	06/15/22	06/18/22	
	83.2 %	70-130	06/15/22	06/18/22	
mg/kg	mg/kg	Ar	alyst: IY		Batch: 2225030
ND	20.0	1	06/15/22	06/18/22	
	92.8 %	70-130	06/15/22	06/18/22	
mg/kg	mg/kg	Ar	alyst: JL		Batch: 2225040
ND	25.0	1	06/15/22	06/15/22	
ND	50.0	1	06/15/22	06/15/22	
	112 %	50-200	06/15/22	06/15/22	
mg/kg	mg/kg	Ar	alyst: KL		Batch: 2225036
ND	20.0	1	06/15/22	06/16/22	
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 0.0250 83.2 % mg/kg MD 20.0 92.8 % mg/kg ND 25.0 ND 50.0 112 % mg/kg mg/kg mg/kg	Result Limit Dilution mg/kg mg/kg An ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 83.2 % 70-130 mg/kg mg/kg An ND 20.0 1 92.8 % 70-130 mg/kg mg/kg An ND 25.0 1 ND 50.0 1 112 % 50-200 mg/kg mg/kg An	Result Limit Dilution Prepared mg/kg mg/kg Analyst: IY ND 0.0250 1 06/15/22 ND 0.0250 1 06/15/22 ND 0.0250 1 06/15/22 ND 0.0250 1 06/15/22 ND 0.0500 1 06/15/22 ND 0.0250 1 06/15/22 MD 0.0250 1 06/15/22 mg/kg mg/kg Analyst: IY ND 20.0 1 06/15/22 mg/kg mg/kg Analyst: JL ND 25.0 1 06/15/22 ND 50.0 1 06/15/22 ND 50.0 1 06/15/22 Mg/kg mg/kg Analyst: JL	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 06/15/22 06/18/22 ND 0.0500 1 06/15/22 06/18/22 ND 0.0250 1 06/15/22 06/18/22 mg/kg mg/kg Analyst: IY ND 20.0 1 06/15/22 06/18/22 mg/kg mg/kg Analyst: IY ND 25.0 1 06/15/22 06/18/22 Mg/kg mg/kg Analyst: JL ND 25.0 1 06/15/22 06/15/22 ND 25.0 1 06/15/22 06/15/22 06/15/22 ND 50.0 1 06/15/22 06/15/22 06/15/22 Mg/kg mg



Pima Environmental Services-Carlsbad	Project Name:	Ross Ranch 22 14H	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/20/2022 4:38:51PM

CS-10

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2225030
Benzene	ND	0.0250	1	06/15/22	06/19/22	
Ethylbenzene	ND	0.0250	1	06/15/22	06/19/22	
Toluene	ND	0.0250	1	06/15/22	06/19/22	
o-Xylene	ND	0.0250	1	06/15/22	06/19/22	
p,m-Xylene	ND	0.0500	1	06/15/22	06/19/22	
Total Xylenes	ND	0.0250	1	06/15/22	06/19/22	
Surrogate: 4-Bromochlorobenzene-PID		84.4 %	70-130	06/15/22	06/19/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2225030
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/15/22	06/19/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.5 %	70-130	06/15/22	06/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2225040
Diesel Range Organics (C10-C28)	ND	25.0	1	06/15/22	06/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/15/22	06/15/22	
Surrogate: n-Nonane		107 %	50-200	06/15/22	06/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: KL		Batch: 2225036
Chloride	ND	20.0		06/15/22	06/16/22	



Pima Environmental Services-Carlsbad	Project Name:	Ross Ranch 22 14H	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/20/2022 4:38:51PM

CSW-1

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2225030
Benzene	ND	0.0250	1	06/15/22	06/19/22	
Ethylbenzene	ND	0.0250	1	06/15/22	06/19/22	
Toluene	ND	0.0250	1	06/15/22	06/19/22	
o-Xylene	ND	0.0250	1	06/15/22	06/19/22	
p,m-Xylene	ND	0.0500	1	06/15/22	06/19/22	
Total Xylenes	ND	0.0250	1	06/15/22	06/19/22	
Surrogate: 4-Bromochlorobenzene-PID		84.4 %	70-130	06/15/22	06/19/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2225030
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/15/22	06/19/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.5 %	70-130	06/15/22	06/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: JL		Batch: 2225040
Diesel Range Organics (C10-C28)	ND	25.0	1	06/15/22	06/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/15/22	06/15/22	
Surrogate: n-Nonane		111 %	50-200	06/15/22	06/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: KL		Batch: 2225036
Chloride	ND	20.0	1	06/15/22	06/16/22	



Pima Environmental Services-Carlsbad	Project Name:	Ross Ranch 22 14H	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/20/2022 4:38:51PM

CSW-2

	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: IY		Batch: 2225030
ND	0.0250	1	06/15/22	06/19/22	
ND	0.0250	1	06/15/22	06/19/22	
ND	0.0250	1	06/15/22	06/19/22	
ND	0.0250	1	06/15/22	06/19/22	
ND	0.0500	1	06/15/22	06/19/22	
ND	0.0250	1	06/15/22	06/19/22	
	85.9 %	70-130	06/15/22	06/19/22	
mg/kg	mg/kg	Anal	yst: IY		Batch: 2225030
ND	20.0	1	06/15/22	06/19/22	
	91.7 %	70-130	06/15/22	06/19/22	
mg/kg	mg/kg	Anal	yst: JL		Batch: 2225040
ND	25.0	1	06/15/22	06/16/22	
ND	50.0	1	06/15/22	06/16/22	
	114 %	50-200	06/15/22	06/16/22	
mg/kg	mg/kg	Anal	yst: KL		Batch: 2225036
mg/Kg			,		
	mg/kg ND	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 20.0250 MB/kg mg/kg MD 20.0 91.7 % mg/kg ND 25.0 ND 50.0 114 %	Result Limit Dilution mg/kg mg/kg Anal ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 MD 25.9% 70-130 mg/kg mg/kg Anal ND 20.0 1 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 114 % 50-200	Result Limit Dilution Prepared mg/kg mg/kg Analyst: IY ND 0.0250 1 06/15/22 ND 0.0250 1 06/15/22 ND 0.0250 1 06/15/22 ND 0.0500 1 06/15/22 ND 0.0250 1 06/15/22 ND 0.0250 1 06/15/22 mg/kg mg/kg Analyst: IY ND 20.0 1 06/15/22 mg/kg mg/kg Analyst: JL ND 25.0 1 06/15/22 ND 50.0 1 06/15/22 ND 50.0 1 06/15/22	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY Analyst: IY ND 0.0250 1 06/15/22 06/19/22 ND 0.0250 1 06/15/22 06/19/22 ND 0.0250 1 06/15/22 06/19/22 ND 0.0500 1 06/15/22 06/19/22 ND 0.0250 1 06/15/22 06/19/22 ND 0.0250 1 06/15/22 06/19/22 MD 0.0250 1 06/15/22 06/19/22 mg/kg mg/kg Analyst: IY ND 20.0 1 06/15/22 06/19/22 mg/kg mg/kg Analyst: JL ND 25.0 1 06/15/22 06/16/22 ND 50.0 1 06/15/22 06/16/22 ND 50.0 1 06/15/22 06/16/22



Pima Environmental Services-Carlsbad	Project Name:	Ross Ranch 22 14H	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/20/2022 4:38:51PM

CSW-3

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2225030
Benzene	ND	0.0250	1	06/15/22	06/19/22	
Ethylbenzene	ND	0.0250	1	06/15/22	06/19/22	
Toluene	ND	0.0250	1	06/15/22	06/19/22	
o-Xylene	ND	0.0250	1	06/15/22	06/19/22	
o,m-Xylene	ND	0.0500	1	06/15/22	06/19/22	
Total Xylenes	ND	0.0250	1	06/15/22	06/19/22	
Surrogate: 4-Bromochlorobenzene-PID		85.5 %	70-130	06/15/22	06/19/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2225030
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/15/22	06/19/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.9 %	70-130	06/15/22	06/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2225040
Diesel Range Organics (C10-C28)	ND	25.0	1	06/15/22	06/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/15/22	06/16/22	
Surrogate: n-Nonane		112 %	50-200	06/15/22	06/16/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: KL		Batch: 2225036
	ND	20.0		06/15/22	06/17/22	



Pima Environmental Services-Carlsbad	Project Name:	Ross Ranch 22 14H	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/20/2022 4:38:51PM

CSW-4

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2225030
Benzene	ND	0.0250	1	06/15/22	06/19/22	
Ethylbenzene	ND	0.0250	1	06/15/22	06/19/22	
Toluene	ND	0.0250	1	06/15/22	06/19/22	
o-Xylene	ND	0.0250	1	06/15/22	06/19/22	
o,m-Xylene	ND	0.0500	1	06/15/22	06/19/22	
Total Xylenes	ND	0.0250	1	06/15/22	06/19/22	
Surrogate: 4-Bromochlorobenzene-PID		84.8 %	70-130	06/15/22	06/19/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2225030
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/15/22	06/19/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.5 %	70-130	06/15/22	06/19/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: JL		Batch: 2225040
Diesel Range Organics (C10-C28)	ND	25.0	1	06/15/22	06/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/15/22	06/16/22	
Surrogate: n-Nonane		106 %	50-200	06/15/22	06/16/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: KL		Batch: 2225036
· · · · · · · · · · · · · · · · · · ·	ND	20.0		06/15/22	06/17/22	



Surrogate: 4-Bromochlorobenzene-PID

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Ross Ranch 22 14H	Reported:
PO Box 247	Project Number:	21068-0001	·
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/20/2022 4:38:51PM

Plains TX, 79355-0247		Project Manager	: To	m Bynum				6	/20/2022 4:38:51PM
Analyte Result Limit Level Result Rec Limits RPD Limit Level Result Rec Limits RPD Limit Level Result Rec Limits RPD Limit Rec Limits RPD Limit Rec Limits RPD Limit Rec Limits RPD Limit RPD Limit RPD Result Rec Limits RPD Limit RPD RPD									
Analyte	Result		-		Rec		RPD		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2225030-BLK1)						F	Prepared: 0	5/15/22 Ana	alyzed: 06/20/22
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene		0.0250							
o,m-Xylene		0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.85		8.00		85.7	70-130			
LCS (2225030-BS1)						F	Prepared: 0	5/15/22 Ana	alyzed: 06/16/22
Benzene	4.87	0.0250	5.00		97.3	70-130			
Ethylbenzene	4.97	0.0250	5.00		99.4	70-130			
Toluene	5.27	0.0250	5.00		105	70-130			
p-Xylene	4.89	0.0250	5.00		97.7	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	14.9	0.0250	15.0		99.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.89		8.00		86.2	70-130			
LCS Dup (2225030-BSD1)						I	Prepared: 0	6/15/22 Ana	alyzed: 06/16/22
Benzene	4.94	0.0250	5.00		98.7	70-130	1.42	20	
Ethylbenzene	5.06	0.0250	5.00		101	70-130	1.80	20	
Toluene	5.31	0.0250	5.00		106	70-130	0.857	20	
o-Xylene	5.00	0.0250	5.00		99.9	70-130	2.24	20	
o,m-Xylene	10.2	0.0500	10.0		102	70-130	1.78	20	
Total Xylenes	15.2	0.0250	15.0		102	70-130	1.93	20	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Ross Ranch 22 14H	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/20/2022 4:38:51PM

Plains TX, 79355-0247		Project Manage	r: To	m Bynum					6/20/2022 4:38:51PM
	Non	halogenated	Organics	by EPA 80	15D - G	RO			Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limi %	
Blank (2225030-BLK1)							Prepared: 0	6/15/22	Analyzed: 06/20/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.6	70-130			
LCS (2225030-BS2)							Prepared: 0	6/15/22	Analyzed: 06/20/22
Gasoline Range Organics (C6-C10)	42.8	20.0	50.0		85.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.09		8.00		88.6	70-130			
LCS Dup (2225030-BSD2)							Prepared: 0	6/15/22	Analyzed: 06/20/22
Gasoline Range Organics (C6-C10)	44.1	20.0	50.0		88.3	70-130	3.14	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		8.00		89.3	70-130			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Ross Ranch 22 14H	Reported:
PO Box 247	Project Number:	21068-0001	_
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/20/2022 4:38:51PM

Plains TX, 79355-0247		Project Manage	r: To	m Bynum					6/20/2022 4:38:51PM
	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2225040-BLK1)							Prepared: 0	6/15/22 A	nalyzed: 06/15/22
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.6		50.0		107	50-200			
LCS (2225040-BS1)							Prepared: 0	6/15/22 A	nalyzed: 06/15/22
Diesel Range Organics (C10-C28)	474	25.0	500		94.8	38-132			
Surrogate: n-Nonane	55.4		50.0		111	50-200			
Matrix Spike (2225040-MS1)				Source:	E206077-	11	Prepared: 0	6/15/22 A	nalyzed: 06/15/22
Diesel Range Organics (C10-C28)	472	25.0	500	ND	94.5	38-132			
Surrogate: n-Nonane	54.5		50.0		109	50-200			
Matrix Spike Dup (2225040-MSD1)				Source:	E206077-	11	Prepared: 0	6/15/22 A	analyzed: 06/15/22
Diesel Range Organics (C10-C28)	477	25.0	500	ND	95.3	38-132	0.935	20	
Surrogate: n-Nonane	55.5		50.0		111	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247		Project Name: Project Number:		oss Ranch 22 1068-0001	14H				Reported:
Plains TX, 79355-0247		Project Manager:		om Bynum					6/20/2022 4:38:51PM
		Anions	by EPA 3	300.0/9056 <i>A</i>	4				Analyst: KL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2225036-BLK1)							Prepared: 0	6/15/22 A	nalyzed: 06/16/22
Chloride	ND	20.0							
LCS (2225036-BS1)							Prepared: 0	6/15/22 A	nalyzed: 06/16/22
Chloride	245	20.0	250		97.9	90-110			
Matrix Spike (2225036-MS1)				Source:	E206077-	01	Prepared: 0	6/15/22 A	nalyzed: 06/16/22
Chloride	265	20.0	250	ND	106	80-120			
Matrix Spike Dup (2225036-MSD1)				Source:	E206077-)1	Prepared: 0	6/15/22 A	nalyzed: 06/16/22
Chloride	265	20.0	250	ND	106	80-120	0.113	20	

QC Summary Report Comment:

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



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Ross Ranch 22 14H	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	06/20/22 16:38

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



lient: P	ma Envi	ronmen	tal Service	ces	Attention: Sput Energy	3.4		Lab U					Use Only				TAT			rogram
	Koss Ka lanager:		22 14	<i>H</i>	Attention: PUL Energy Address:	_		Lab \	NO#	^	7		Vumb	er -000	1D	2D	3D	Standard	CWA	SDWA
	5614 N.				City, State, Zip			Lo	00	0-1				Metho				1		RCRA
			A, 88240		Phone:		_													
	580-748- om@pin		n		Email:			8015	8015		8260							NMI CO	State	TVI
eport di		laon.coi			Pima Project # 6-63			O by	O by	8021		010	6010	e 300.	ΣN	X		X	UT AZ	IX
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		303.17	.ab mber	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		верос	верос			Remarks	
:00	6/9/22	5		CS-1		1									X					
:05	1	1		C5-2		é	2								1					
6:10				CS-3		3	3													
:15		CS-4		CS-H		C	+													
05:				CS-5		=	5													
:25				CS-6		(0													
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ent: Pima Env pject: Ross	ronmen	tal Servi	ces	-	Bill To				La		e On					TAT		EPA Progra		
ject: Ross	Kancl	22 1	14 H	Attention: Spo	R Energy	_	Lab	WO#	1]	Job I	ob Number		1D	2D	3D	Standard	CWA	SDWA	
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ail: tom@pin	naoii.cor	11		Pima Project #	.6-63		yd C	10 by 8	GRO/DRO by 8015	8021	3260	010	300.0		ΣZ	¥		NMI CC	UT AZ	IX
ime Date	Matrix	No. of	Sample ID		000	Lab	DRO/ORO by 8015	O/DR(BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	верос		A	Remarks	1 1	
mpled Sampled		Containers	Sample 15			Number	DR(GR	BTE	0>	Me	S		. BG	BGE			Kemarks		
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envirotech Inc.

Printed: 6/15/2022 2:44:20PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	06/14/22 1	11:39	Work Order II	D: E206077
Phone:	(575) 631-6977	Date Logged In:	06/14/22 1	11:37	Logged In By:	: Alexa Michaels
Email:		Due Date:		17:00 (3 day TAT)	86	
	Custody (COC)					
			V			
	ne sample ID match the COC? ne number of samples per sampling site location matc	h the COC	Yes			
	amples dropped off by client or carrier?	ii uic coc	Yes	G	vna.	
	e COC complete, i.e., signatures, dates/times, request	od analysas?	Yes Yes	Carrier: <u>U</u>	<u>JPS</u>	
	Il samples received within holding time?	eu anaryses:	Yes			
J. Wele a	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion		168	r	<u>Comm</u>	ents/Resolution
	<u>Furn Around Time (TAT)</u>					
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C			37			
	sample cooler received?		Yes			
•	was cooler received in good condition?		Yes			
	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	, were custody/security seals intact?		NA			
	e sample received on ice? If yes, the recorded temp is 4°C, i Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample t	received w/i 15	Yes C			
	Container	<u> </u>	<u>~</u>			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample contained	ers collected?	Yes			
Field Lal			100			
	field sample labels filled out with the minimum infor	mation:				
	ample ID?		Yes			
D	Pate/Time Collected?		Yes	L		
C	ollectors name?		Yes			
	<u>Preservation</u>					
	the COC or field labels indicate the samples were pre-	eserved?	No			
	ample(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved me	etals?	No			
	se Sample Matrix					
	the sample have more than one phase, i.e., multiphase		No			
27. If yes	, does the COC specify which phase(s) is to be analyzed	zed?	NA			
Subcontr	act Laboratory					
	amples required to get sent to a subcontract laborator	y?	No			
29. Was a	subcontract laboratory specified by the client and if	so who?	NA	Subcontract Lab	o: NA	
Client I	nstruction					
<u>enene 11</u>	<u> </u>					

Date

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



Appendix F

NMOCD Approved Remediation Plan

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

Responsible Party: Spur Energy Partners LLC

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	NRM2023854921
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID: 328947

Contact email: kkidd@spurepllc.com Contact mailing address: 920 Memorial City Way Suite 1000			meldent #	t (assigned by OCD):		
Houston, T	0	: 920 Memorial Ci	ty Way Suite 100	00		
			Location	n of D	ologgo S	OHEGO
			Location	ıı oı ıv	cicase o	ource
Latitude 32.6	36384		(NAD 83 in a		Longitude <u>-</u> grees to 5 decir	-104.478333 (location of source)
Site Name: R	oss Ranch 2	2 #014H			Site Type:	Oil Production Battery
Date Release	Discovered	: August 22, 2020			API# (if app	plicable) 30-015-45695
Unit Letter D	Section 27	Township 19S	Range 25E	Eddy	Cour	nty
D	21	198	ZJE	Eduy	/	
Surface Owne	r: State		ribal 🗌 Private ((Name:)
our luce o which	i. 🗀 State		TourTrivate ((Ivamo.		,
			Nature an	d Vol	ume of I	Release
	Materia	l(s) Released (Select al	l that apply and attac	h calculat	ions or specific	justification for the volumes provided below)
Crude Oi		Volume Release				Volume Recovered (bbls)
Produced	Water	Volume Release	d (bbls) 6 bbls			Volume Recovered (bbls) 3bbls
		Is the concentrat		chloride	in the	☐ Yes ⊠ No
Condensa	te	Volume Release				Volume Recovered (bbls)
Natural G	as	Volume Release	d (Mcf)			Volume Recovered (Mcf)
Other (de	scribe)	Volume/Weight	Released (provid	le units)		Volume/Weight Recovered (provide units)
Cause of Rele	ease:	ad a nin hala fram			ana af missa	d ail and water. All fluid remained inside the
A welded 4" line developed a pin hole from corrosion, causing a release of mixed oil and water. All fluid remained inside the containment. A hydro vac truck was dispatched and recovered approximately 3 bbls of fluid.						
containment.	and the same that the same tha					
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State of New Mexico Oil Conservation Division

Incident ID	NRM2023854921
District-RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?						
release as defined by 19.15.29.7(A) NMAC?							
. ,							
Yes No							
V							
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?						
	vided by Kenny Kidd of Spur Energy via email to the BLM, and Victoria Venegas with the NMOCD						
to in the second	Initial Response						
The vernousible	-						
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury						
The source of the rele	ase has been stopped.						
	s been secured to protect human health and the environment.						
I	ve been contained via the use of berms or dikes, absorbent pads, or other containment devices.						
	coverable materials have been removed and managed appropriately.						
If all the actions described	above have not been undertaken, explain why:						
	AC the responsible party may commence remediation immediately after discovery of a release. If remediation narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred						
	area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.						
	nation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and						
	equired to report and/or file certain release notifications and perform corrective actions for releases which may endanger ent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have						
failed to adequately investigated	te 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: Rebecca Pons Title: Project Manager							
Pobos	Digitally righed by Robert Person The Design Proceedings of the U.S. The Design Procedure of the U.S. The						
Signature.	Disc 2000/04310 6607 Date. GIZJIZUZU						
email:Rpons@tale	Telephone:						
OCD Only							
_	N. 9/25/2020						
Received by: Ramona	Marcus Date: 8/25/2020						
al							

Received by OCD: 3/8/2022/10:49:314/AM/ Form C-141 State of New Mexico Oil Conservation Division Page 3

	Page 61 of 108	8
Incident ID	NRM2023854921	
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?	60(ft bgs)			
Did this release impact groundwater or surface water?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No			
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No			
Are the lateral extents of the release within a 100-year floodplain?				
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody				

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

Received by OCD: 3/8/202210:49314 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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Incident ID	NRM2023854921
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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: Brandon Sinclair	Brandon Digitally signed by Brandon Sinclair DN: cn-Brandon Sinclair, co-Talon LPE, cusEnvironmental, email-basin/diretalenine.com.	Title: Environmental Project Manager		
Signature:	Sinclair	Date: 2-4-2021		
email: bsinclair@talonlpe.com		Telephone: 575-746-8768		
OCD Only				
Received by:		Date:		

of New Mexico

Incident ID	NRM2023854921
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 con-	nfirmed as part of any request for deferral of remediation.			
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility			
Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name: Brandon Sinclair Brandon Digitally signed by Brandon Sinclair Brandon Digitally signed by Brandon Sinclair Div. co. Paladon Inc. Pal	Title: Environmental Project Manager			
Signature: Sinclair	Date: 2-4-2021			
email: bsinclair@talonlpe.com	Telephone: 575-746-8768			
OCD Only				
Chad Hensley Received by:	04/01/2021 Date:			
Approved	Approval Denied Deferral Approved			
Signature: Chad Hend	Date: 04/01/2021			



Soil Assessment and Remediation Work Plan

Ross Ranch 22 #014H Eddy County, New Mexico API # 30-015-45695, NRM2023854921

Prepared For:

Spur Energy Partners LLC 920 Memorial City Way Suite 1000 Houston, TX 77024

Prepared By:

TALON/LPE 408 West Texas Avenue Artesia, NM 88210

March 12, 2021

Mr. Jim Amos **Bureau of Land Management**620 East Green Street
Carlsbad, NM 88220

Mr. Mike Bratcher NMOCD District 2 811 S. 1st Street Artesia, NM 88210

Subject: Soil Assessment and Remediation Work Plan

Ross Ranch 22 #014H Eddy County, New Mexico

API # 30-015-45695, NRM2023854921

Dear Mr. Amos & Mr. Bratcher,

Spur Energy Partners LLC (Spur) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above-referenced location. The results of our soil assessment and proposed remediation activities are contained herein.

Site Information

The Ross Ranch 22 #014H is located approximately fifteen (15) miles southwest of Artesia, New Mexico. The legal location for this release is Unit Letter D, Section 27, Township 19 South and Range 25 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.636389 North and -104.478333 West. A site plan is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Reagan loam, 0 to 3 percent slopes. See Appendix II for referenced soil data. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to lower Pleistocene in age and is comprised of loam derived from alluvium and/or eolian deposits. Drainage courses in this area are typically dry.

Ground Water and Site Characterization

The New Mexico Office of the State Engineer web site indicates that the nearest reported depth to groundwater is 60-feet below ground surface (BGS). See Appendix II for the referenced groundwater data.

Pursuant to Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29 of the New Mexico Administrative Code (NMAC), if a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to the groundwater.

Approximate Depth t	60 Feet/BGS	
□Yes ⊠No	Within 300 feet of any continuously flowing watercourse any other significant watercourse	e or
□Yes ⊠No	Within 200 feet of any lakebed, sinkhole or playa lake	
□Yes ⊠No	Within 300 feet from an occupied permanent residence school, hospital, institution or church),
∐Yes ⊠No	Within 500 feet of a spring or a private, domestic fresh well used by less than five households for domestic or watering purposes	
□Yes ⊠No □Yes ⊠No	Within 1000 feet of any fresh water well or spring Within incorporated municipal boundaries or within a de Municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA	pal
☐Yes ⊠No ☐Yes ⊠No ☐Yes ⊠No ☐Yes ⊠No	Within 300 feet of a wetland Within the area overlying a subsurface mine Within an unstable area Within a 100-year floodplain	

As this release does not meet any of the above criteria, the closure criteria for this incident are as follows:

Table I								
Closure Criteria for Soils Impacted by a Release								
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**					
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 CI B	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					

Incident Description

On August 22, 2020, a mixture of crude oil (unknown volume) and produced water (6 barrels (bbls)) was released into the unlined, earthen containment surrounding the separator battery area. This occurred due to a breach in the welded 4-inch line which had corroded. The initial C-141 is attached in Appendix III. A site map illustrating the affected area is presented in Appendix I.

Site Assessment

On October 7, 2020, Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Discrete surface soil samples were collected within and around the impacted area utilizing a hand auger. Further vertical delineation could not take place due to auger refusal as well as the proximity of infrastructure. Results from our sampling event are presented in the following data table. A complete laboratory report can be found in Appendix V.

Table 1: Soil Sample Analysis

Table 1: Ooli Gample Analysis											
Sample ID	Depth (ft.)	Date	BTEX (mg/kg)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	Cl (mg/kg)		
Closure Criteria 19.15.29.12 NMAC		50 mg/kg	10 mg/kg	1,000 mg/kg			2,500 mg/kg	10,000 mg/kg			
S-1	0 R	10/7/2020	ND	ND	63.6	13900	3390	17353.6	24000		
S-2	0 R	10/7/2020	ND	ND	ND	9730	3350	13080.0	1920		
S-3	0 R	10/7/2020	ND	ND	ND	17200	5410	22610.0	13600		
S-4	0 R	10/7/2020	ND	ND	ND	42400	11300	53700.0	65600		
S-5	0 R	10/7/2020	ND	ND	ND	13600	4750	18350.0	4480		
S-6	0 R	10/7/2020	ND	ND	ND	53800	16900	70700.0	39600		
S-7	0 R	10/7/2020	ND	ND	ND	34400	9770	44170.0	39600		
S-8	0 R	10/7/2020	0.572	ND	103	36800	9800	46703.0	44800		
BG-1	0	10/7/2020	ND	ND	ND	ND	ND	-	16		
BG-2	0	10/7/2020	ND	ND	ND	ND	ND	-	80		
BG-3	0	10/7/2020	ND	ND	ND	ND	ND	-	80		
BG-4	0	10/7/2020	ND	ND	ND	ND	ND	-	48		

ND= Analyte Not Detected

R= Hand Auger Refusal

Proposed Remedial Actions

- Excavation activities within the separator battery will be hand-excavated to a depth of 1.0-foot BGS in order to avoid compromising structural integrity.
- Vertical delineation of the impacted area will be addressed during remediation activities.
- Microblaze, a bioremediation agent, will then be spray-applied to the impacted area.
- Confirmation samples will be collected from the bottom and sidewalls of the excavation 90-days after the microblaze application in order to determine whether contaminant concentration is at that point below NMOCD closure criteria. Should it be determined that concentrations are still in excess of NMOCD closure criteria, we will be requesting a deferral of remediation due to contamination being directly under and around production equipment, the remediation of which would necessitate a major facility deconstruction.
- The excavated area will be backfilled with new caliche.
- The excavated material (approximately 75 yards) will be transported to Lea Land, LLC, a NMOCD approved solid waste disposal facility.
- Remedial actions will commence within 14-days of client authorization to proceed.
- A final closure report documenting the remedial actions performed and a Final C-141 will be provided to the NMOCD District II Office.

Closure

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-746-8768.

Respectfully submitted,

TALON/LPE

Brandon Sinclair Project Manager David J. Adkins Regional Manager

Attachments:

Appendix I Site Maps

Appendix II Soil Boring Log, Groundwater & Soil Data, FEMA Flood Map

Appendix III C-141 Forms

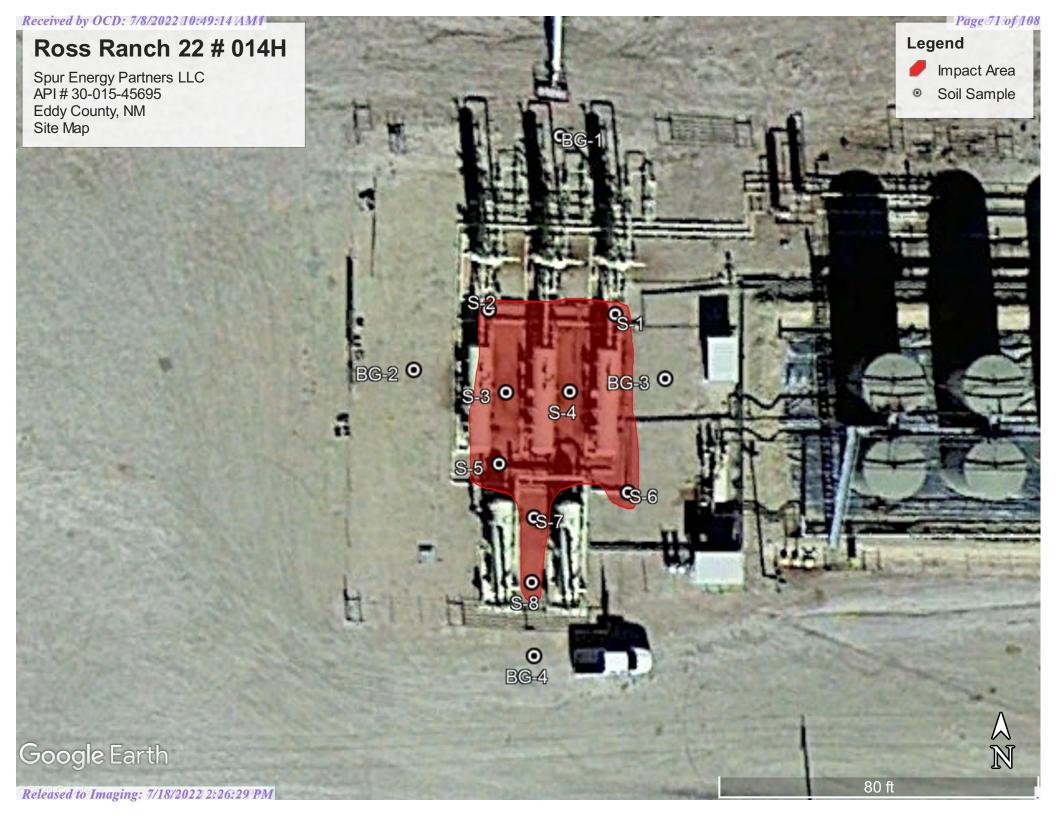
Appendix IV Photographic Documentation

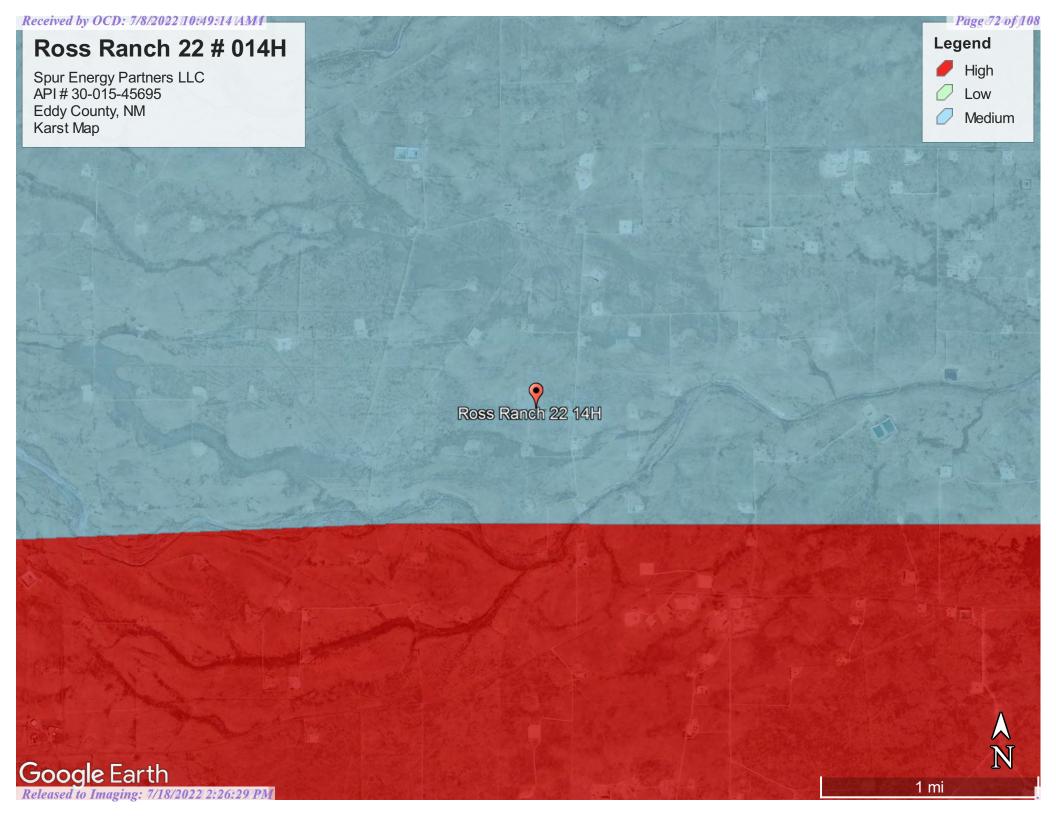
Appendix V Laboratory Data

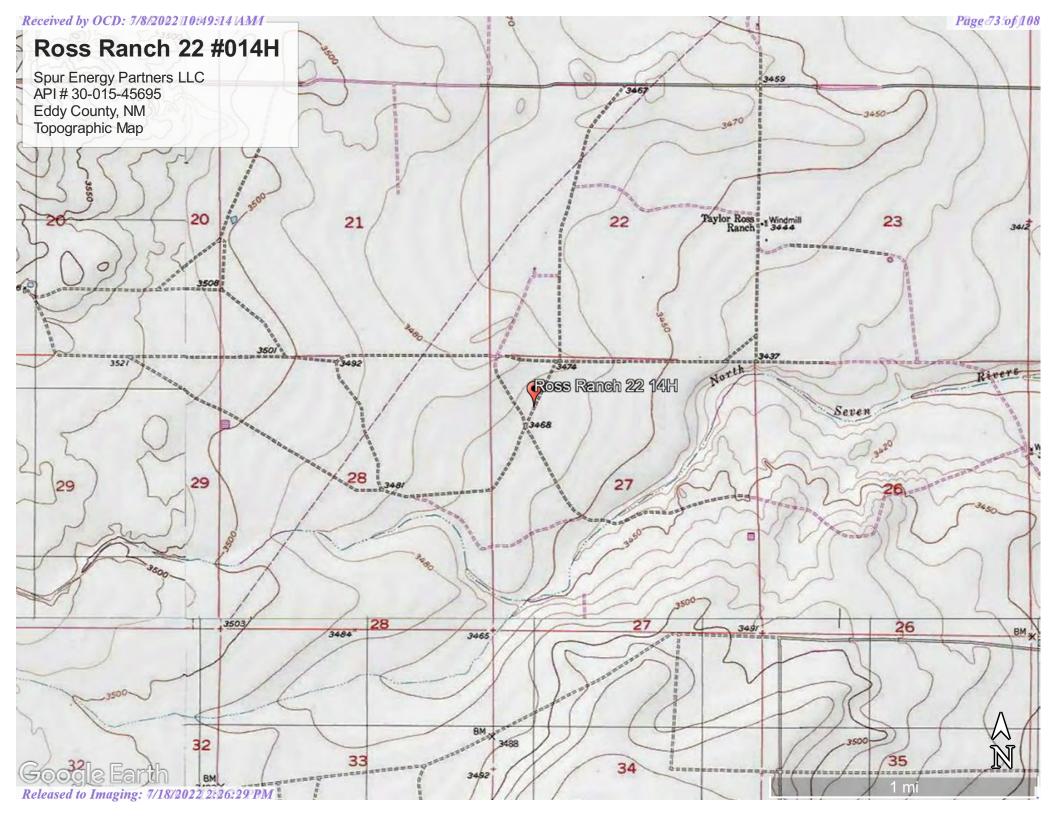


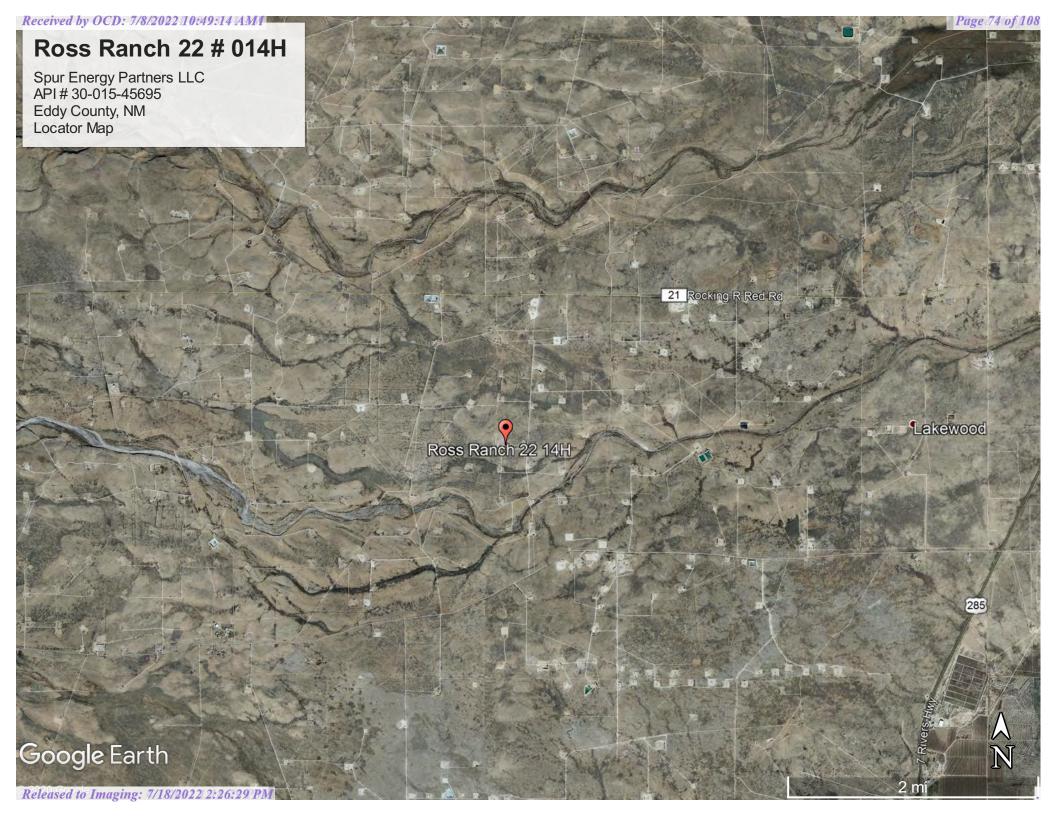
<u>APPENDIX I</u>

SITE MAPS











<u>APPENDIX II</u>

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD MAP



New Mexico Office of the State Engineer Water Column/Average Depth to Water

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

(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												
POD Number	Sub- Code basin	County		Q 0 16 4	•	Tws	Rng	х	Υ	Distance	-	-	Water Column
RA 03304	RA	ED		•	27	19S	25E	549081	3610973* 🌕	195	130	60	70
RA 08986	RA	ED	1	3 3	3 22	198	25E	548825	3611507 🌍	422	320	220	100
RA 02909	RA	ED		1 3	3 22	198	25E	548864	3611989* 🌍	893	188	130	58
RA 02958	RA	ED		1 4	1 34	198	25E	549681	3608740* 🌍	2474	450		
RA 03018	RA	ED	3	2 4	1 34	19S	25E	549987	3608639* 🌕	2676	530		

Average Depth to Water: 136 feet

> Minimum Depth: 60 feet

Maximum Depth: 220 feet

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 548931.12 Northing (Y): 3611098.29 Radius: 3000

*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.

Eddy Area, New Mexico

RA—Reagan loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5c Elevation: 1,100 to 4,400 feet

Mean annual precipitation: 7 to 14 inches

Mean annual air temperature: 60 to 70 degrees F

Frost-free period: 200 to 240 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Reagan and similar soils: 98 percent *Minor components*: 2 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Reagan

Setting

Landform: Alluvial fans, fan remnants Landform position (three-dimensional): Rise

Down-slope shape: Linear, convex

Across-slope shape: Linear

Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam H2 - 8 to 60 inches: loam

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 moderately saline (2.0 to

8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

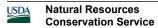
Available water capacity: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: B

Ecological site: R042XC007NM - Loamy



Hydric soil rating: No

Minor Components

Upton

Percent of map unit: 1 percent Ecological site: R042XC025NM - Shallow

Hydric soil rating: No

Atoka

Percent of map unit: 1 percent Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020

Received by OCD: 1/8/2022 11 0:49:14 IAMI National Flood Hazard Layer FIRMette





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

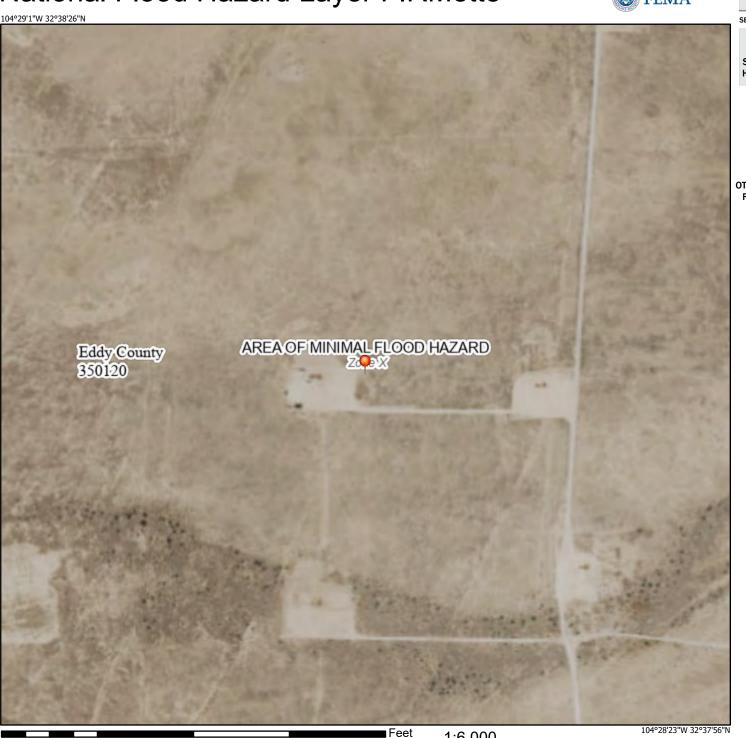
Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF FLOOD HAZARD Area with Flood Risk due to Levee Zone D NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLIL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study **Jurisdiction Boundary Coastal Transect Baseline** OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate point selected by the user and does not represent

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

an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/29/2021 at 2:00 PM 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.



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APPENDIX III

C-141 FORMS

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

Responsible Party: Spur Energy Partners LLC

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	NRM2023854921
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID: 328947

Latitude 32.0	(26291		Locatio	on of Re		104.478333 (location of source	
2attude <u>52.0</u>)		(NAD 83 in	ı decimal degr			
Site Name: R	loss Ranch 2	2 #014H			Site Type: 0	Oil Production Battery	
Date Release	Discovered	: August 22, 2020			API# (if appi	licable) 30-015-45695	
Unit Letter	Section	Township	Range		Count	ity	
D	27	19S	25E	Eddy			
		Is the concentrate produced water	>10,000 mg/l?	d chloride i	n the	☐ Yes ⊠ No	
				d chloride i	n the	☐ Yes ⊠ No	
Condensa		Volume Release				Volume Recovered (bbls)	
Natural G		Volume Release			Volume Recovered (Mcf)		
Other (de	scribe)	Volume/Weight	Released (provi	ide units)		Volume/Weight Recovered (provide units)	
	line develop	ed a pin hole fron c truck was dispat				d oil and water. All fluid remained inside the obls of fluid.	

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State of New Mexico Oil Conservation Division

Incident ID	NRM2023854921
District-RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the resp	oonsible party consider this a major release?
☐ Yes ⊠ No		
		whom? When and by what means (phone, email, etc)? email to the BLM, and Victoria Venegas with the NMOCD
	Initial I	Response
The responsible p	varty must undertake the following actions immedia	tely unless they could create a safety hazard that would result in injury
☐ The source of the rele	ase has been stopped.	
The impacted area has	s been secured to protect human health an	d the environment.
Released materials have	ve been contained via the use of berms or	dikes, absorbent pads, or other containment devices.
All free liquids and re	coverable materials have been removed a	nd managed appropriately.
If all the actions described	above have not been undertaken, explain	why:
		remediation immediately after discovery of a release. If remediation 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.
regulations all operators are re public health or the environmental failed to adequately investigate	equired to report and/or file certain release not ent. The acceptance of a C-141 report by the te and remediate contamination that pose a thr	best of my knowledge and understand that pursuant to OCD rules and iffications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In f responsibility for compliance with any other federal, state, or local laws
Printed Name: Rebeco		
	Digitals (probable Roberts Peer Die Bernstelle Die Bernstelle Die Bernstelle Die Bernstelle Die Bernstelle Die Bernstelle	Date: <u>8/25/2020</u>
email: Rpons@talo	onlpe.com	Telephone:575-441-0980
OCD Only		
Received by: Ramona	Marcus	Date: 8/25/2020

e of New Mexico

Incident ID	NRM2023854921
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?	60(ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 well Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody	s.

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.

Received by OCD: 3/8/2022/10/49:314 MM State of New Mexico Page 4 Oil Conservation Division

	Page 84 of 10	8
Incident ID	NRM2023854921	
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: Brandon Sinclair

Title: Environmental Project Manager

Signature:

Date: 2-4-2021

email: bsinclair@talonlpe.com

Telephone: 575-746-8768

OCD Only

Received by:

Date: ______

Date: ______

	Page 85 of 10	8
Incident ID	NRM2023854921	
District RP		
Facility ID		
Application ID		

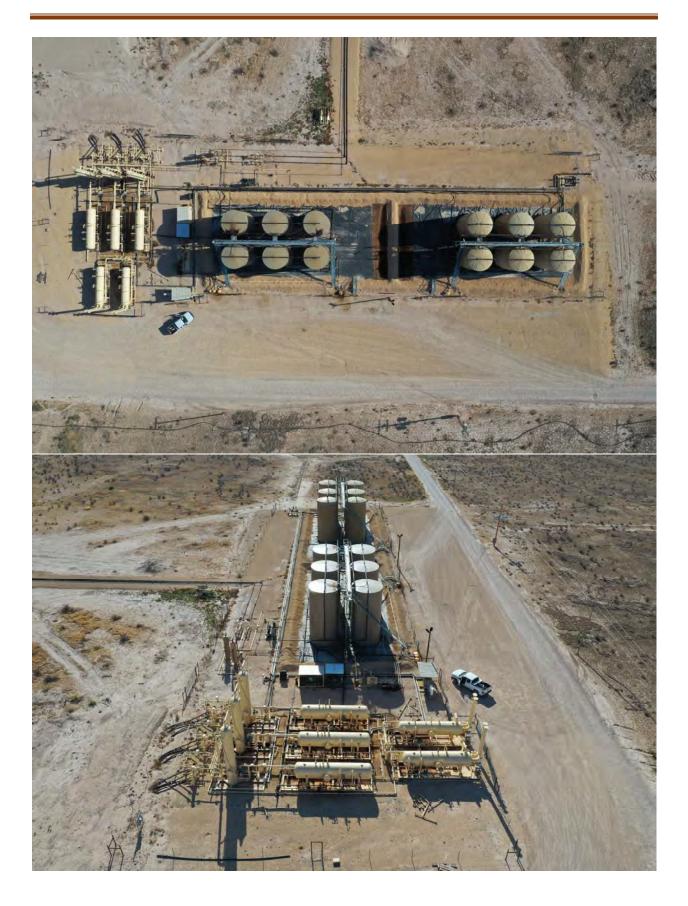
Remediation Plan

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 poin ☑ Estimated volume of material to be remediated ☑ Closure criteria is to Table 1 specifications subject to 19.15.29 ☑ Proposed schedule for remediation (note if remediation plan times) 	.12(C)(4) NMAC
Deferral Requests Only: Each of the following items must be co	onfirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around p deconstruction.	production equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human heal	th, the environment, or groundwater.
rules and regulations all operators are required to report and/or file	acceptance of a C-141 report does not relieve the operator of
Printed Name: Brandon Sinclair	Title: Environmental Project Manager
Signature:	Date: 2-4-2021
email: bsinclair@talonlpe.com	Telephone: 575-746-8768
OCD Only	
Received by:	Date:
Approved	f Approval
Signature:	Date:



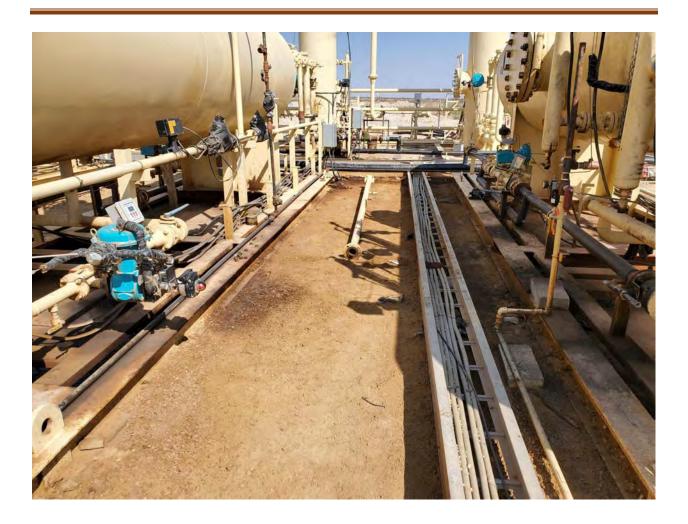
<u>APPENDIX IV</u>

PHOTOGRAPHIC DOCUMENTATION











<u>APPENDIX V</u>

LABORATORY DATA



October 13, 2020

BRANDON SINCLAIR

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: ROSS RANCH 22 #014H

Enclosed are the results of analyses for samples received by the laboratory on 10/08/20 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TALON LPE
BRANDON SINCLAIR
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 10/08/2020 Sampling Date: 10/07/2020

Reported: 10/13/2020 Sampling Type: Soil

Project Name: ROSS RANCH 22 #014H Sampling Condition: Cool & Intact
Project Number: 702604.040.01 Sample Received By: Tamara Oldaker

Analyzed By me

Project Location: SPUR ENERGY - EDDY CO NM

Sample ID: S - 1 0' R (H002684-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2020	ND	2.16	108	2.00	7.60	
Toluene*	<0.050	0.050	10/12/2020	ND	2.15	108	2.00	7.16	
Ethylbenzene*	<0.050	0.050	10/12/2020	ND	2.12	106	2.00	7.79	
Total Xylenes*	0.259	0.150	10/12/2020	ND	6.08	101	6.00	7.87	
Total BTEX	<0.300	0.300	10/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24000	16.0	10/12/2020	ND	416	104	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	63.6	50.0	10/09/2020	ND	227	113	200	2.09	
DRO >C10-C28*	13900	50.0	10/09/2020	ND	231	115	200	4.23	
EXT DRO >C28-C36	3390	50.0	10/09/2020	ND					
Surrogate: 1-Chlorooctane	130	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	519	% 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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Celey & Freene



Analytical Results For:

TALON LPE **BRANDON SINCLAIR** 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received: 10/08/2020 Sampling Date: 10/07/2020

Reported: Sampling Type: Soil 10/13/2020

Project Name: ROSS RANCH 22 #014H Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker 702604.040.01

SPUR ENERGY - EDDY CO NM Project Location:

Sample ID: S - 2 0' R (H002684-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2020	ND	2.16	108	2.00	7.60	
Toluene*	<0.050	0.050	10/12/2020	ND	2.15	108	2.00	7.16	
Ethylbenzene*	<0.050	0.050	10/12/2020	ND	2.12	106	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/12/2020	ND	6.08	101	6.00	7.87	
Total BTEX	<0.300	0.300	10/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	10/12/2020	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/09/2020	ND	227	113	200	2.09	
DRO >C10-C28*	9730	50.0	10/09/2020	ND	231	115	200	4.23	
EXT DRO >C28-C36	3350	50.0	10/09/2020	ND					
Surrogate: 1-Chlorooctane	118 9	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	454 9	42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

TALON LPE **BRANDON SINCLAIR** 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received: 10/08/2020 Sampling Date: 10/07/2020

Reported: Sampling Type: Soil 10/13/2020

Project Name: ROSS RANCH 22 #014H Sampling Condition: Cool & Intact Sample Received By: Project Number: 702604.040.01 Tamara Oldaker

SPUR ENERGY - EDDY CO NM Project Location:

Sample ID: S - 3 0' R (H002684-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2020	ND	2.16	108	2.00	7.60	
Toluene*	<0.050	0.050	10/12/2020	ND	2.15	108	2.00	7.16	
Ethylbenzene*	<0.050	0.050	10/12/2020	ND	2.12	106	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/12/2020	ND	6.08	101	6.00	7.87	
Total BTEX	<0.300	0.300	10/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13600	16.0	10/12/2020	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	10/09/2020	ND	227	113	200	2.09	
DRO >C10-C28*	17200	100	10/09/2020	ND	231	115	200	4.23	
EXT DRO >C28-C36	5410	100	10/09/2020	ND					
Surrogate: 1-Chlorooctane	119 %	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	695 %	6 42.2-15	6						

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Celey D. Keine



Analytical Results For:

TALON LPE **BRANDON SINCLAIR** 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received: 10/08/2020 Sampling Date: 10/07/2020

Reported: Sampling Type: Soil 10/13/2020

Project Name: ROSS RANCH 22 #014H Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker 702604.040.01

SPUR ENERGY - EDDY CO NM Project Location:

Sample ID: S - 4 0' R (H002684-04)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2020	ND	2.16	108	2.00	7.60	
Toluene*	0.061	0.050	10/12/2020	ND	2.15	108	2.00	7.16	
Ethylbenzene*	0.064	0.050	10/12/2020	ND	2.12	106	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/12/2020	ND	6.08	101	6.00	7.87	
Total BTEX	<0.300	0.300	10/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	65600	16.0	10/12/2020	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	10/09/2020	ND	227	113	200	2.09	
DRO >C10-C28*	42400	100	10/09/2020	ND	231	115	200	4.23	
EXT DRO >C28-C36	11300	100	10/09/2020	ND					
Surrogate: 1-Chlorooctane	139 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	1520	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

TALON LPE
BRANDON SINCLAIR
408 W. TEXAS AVE.
ARTESIA NM, 88210

Fax To: (575) 745-8905

Received: 10/08/2020 Sampling Date: 10/07/2020

Reported: 10/13/2020 Sampling Type: Soil

Project Name: ROSS RANCH 22 #014H Sampling Condition: Cool & Intact
Project Number: 702604.040.01 Sample Received By: Tamara Oldaker

Analyzed By, me

Project Location: SPUR ENERGY - EDDY CO NM

ma/ka

Sample ID: S - 5 0' R (H002684-05)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2020	ND	2.16	108	2.00	7.60	
Toluene*	<0.050	0.050	10/12/2020	ND	2.15	108	2.00	7.16	
Ethylbenzene*	<0.050	0.050	10/12/2020	ND	2.12	106	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/12/2020	ND	6.08	101	6.00	7.87	
Total BTEX	<0.300	0.300	10/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.4	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	10/12/2020	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/09/2020	ND	227	113	200	2.09	
DRO >C10-C28*	13600	50.0	10/09/2020	ND	231	115	200	4.23	
EXT DRO >C28-C36	4750	50.0	10/09/2020	ND					
Surrogate: 1-Chlorooctane	112	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	572	% 42.2-15	6						

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Analytical Results For:

TALON LPE **BRANDON SINCLAIR** 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received: 10/08/2020 Sampling Date: 10/07/2020

Reported: Sampling Type: Soil 10/13/2020

Project Name: ROSS RANCH 22 #014H Sampling Condition: Cool & Intact Project Number: Sample Received By: 702604.040.01 Tamara Oldaker

SPUR ENERGY - EDDY CO NM Project Location:

Sample ID: S - 6 0' R (H002684-06)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2020	ND	2.16	108	2.00	7.60	
Toluene*	<0.050	0.050	10/12/2020	ND	2.15	108	2.00	7.16	
Ethylbenzene*	<0.050	0.050	10/12/2020	ND	2.12	106	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/12/2020	ND	6.08	101	6.00	7.87	
Total BTEX	<0.300	0.300	10/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	39600	16.0	10/12/2020	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	10/09/2020	ND	227	113	200	2.09	
DRO >C10-C28*	53800	100	10/09/2020	ND	231	115	200	4.23	
EXT DRO >C28-C36	16900	100	10/09/2020	ND					
Surrogate: 1-Chlorooctane	133 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	2080	% 42.2-15	6						

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Analytical Results For:

TALON LPE
BRANDON SINCLAIR
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 10/08/2020 Sampling Date: 10/07/2020

Reported: 10/13/2020 Sampling Type: Soil

Project Name: ROSS RANCH 22 #014H Sampling Condition: Cool & Intact
Project Number: 702604.040.01 Sample Received By: Tamara Oldaker

Analyzed By, me

Project Location: SPUR ENERGY - EDDY CO NM

ma/ka

Sample ID: S - 7 0' R (H002684-07)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2020	ND	2.16	108	2.00	7.60	
Toluene*	<0.050	0.050	10/12/2020	ND	2.15	108	2.00	7.16	
Ethylbenzene*	<0.050	0.050	10/12/2020	ND	2.12	106	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/12/2020	ND	6.08	101	6.00	7.87	
Total BTEX	<0.300	0.300	10/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	39600	16.0	10/12/2020	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	10/09/2020	ND	227	113	200	2.09	
DRO >C10-C28*	34400	100	10/09/2020	ND	231	115	200	4.23	
EXT DRO >C28-C36	9770	100	10/09/2020	ND					
Surrogate: 1-Chlorooctane	125	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	1220	% 42.2-15	6						

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Analytical Results For:

TALON LPE
BRANDON SINCLAIR
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 10/08/2020 Sampling Date: 10/07/2020

Reported: 10/13/2020 Sampling Type: Soil

Project Name: ROSS RANCH 22 #014H Sampling Condition: Cool & Intact
Project Number: 702604.040.01 Sample Received By: Tamara Oldaker

Project Location: SPUR ENERGY - EDDY CO NM

Sample ID: S - 8 0' R (H002684-08)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2020	ND	2.16	108	2.00	7.60	
Toluene*	<0.050	0.050	10/12/2020	ND	2.15	108	2.00	7.16	
Ethylbenzene*	0.156	0.050	10/12/2020	ND	2.12	106	2.00	7.79	
Total Xylenes*	0.416	0.150	10/12/2020	ND	6.08	101	6.00	7.87	
Total BTEX	0.572	0.300	10/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	44800	16.0	10/12/2020	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	103	100	10/09/2020	ND	227	113	200	2.09	
DRO >C10-C28*	36800	100	10/09/2020	ND	231	115	200	4.23	
EXT DRO >C28-C36	9800	100	10/09/2020	ND					
Surrogate: 1-Chlorooctane	157	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	1250	% 42.2-15	6						

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Analytical Results For:

TALON LPE
BRANDON SINCLAIR
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 10/08/2020 Sampling Date: 10/07/2020

Reported: 10/13/2020 Sampling Type: Soil

Project Name: ROSS RANCH 22 #014H Sampling Condition: Cool & Intact
Project Number: 702604.040.01 Sample Received By: Tamara Oldaker

Project Location: SPUR ENERGY - EDDY CO NM

Sample ID: BG - 1 0' (H002684-09)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2020	ND	2.12	106	2.00	3.21	
Toluene*	<0.050	0.050	10/12/2020	ND	2.13	106	2.00	3.23	
Ethylbenzene*	<0.050	0.050	10/12/2020	ND	2.07	103	2.00	2.82	
Total Xylenes*	<0.150	0.150	10/12/2020	ND	5.89	98.1	6.00	2.51	
Total BTEX	<0.300	0.300	10/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/12/2020	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2020	ND	227	113	200	2.09	
DRO >C10-C28*	<10.0	10.0	10/12/2020	ND	231	115	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	10/12/2020	ND					
Surrogate: 1-Chlorooctane	121	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	135	% 42.2-15	6						

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Analytical Results For:

TALON LPE
BRANDON SINCLAIR
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 10/08/2020 Sampling Date: 10/07/2020

Reported: 10/13/2020 Sampling Type: Soil

Project Name: ROSS RANCH 22 #014H Sampling Condition: Cool & Intact
Project Number: 702604.040.01 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: SPUR ENERGY - EDDY CO NM

mg/kg

Sample ID: BG - 2 0' (H002684-10)

BTEX 8021B

	9,	9	7	7					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2020	ND	2.12	106	2.00	3.21	
Toluene*	<0.050	0.050	10/12/2020	ND	2.13	106	2.00	3.23	
Ethylbenzene*	<0.050	0.050	10/12/2020	ND	2.07	103	2.00	2.82	
Total Xylenes*	<0.150	0.150	10/12/2020	ND	5.89	98.1	6.00	2.51	
Total BTEX	<0.300	0.300	10/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/12/2020	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2020	ND	227	113	200	2.09	
DRO >C10-C28*	<10.0	10.0	10/12/2020	ND	231	115	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	10/12/2020	ND					
Surrogate: 1-Chlorooctane	112	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	121	% 42.2-15	6						

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Analytical Results For:

TALON LPE
BRANDON SINCLAIR
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 10/08/2020 Sampling Date: 10/07/2020

Reported: 10/13/2020 Sampling Type: Soil

Project Name: ROSS RANCH 22 #014H Sampling Condition: Cool & Intact
Project Number: 702604.040.01 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: SPUR ENERGY - EDDY CO NM

mg/kg

Sample ID: BG - 3 (H002684-11)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2020	ND	2.12	106	2.00	3.21	
Toluene*	<0.050	0.050	10/12/2020	ND	2.13	106	2.00	3.23	
Ethylbenzene*	<0.050	0.050	10/12/2020	ND	2.07	103	2.00	2.82	
Total Xylenes*	<0.150	0.150	10/12/2020	ND	5.89	98.1	6.00	2.51	
Total BTEX	<0.300	0.300	10/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/12/2020	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2020	ND	203	101	200	3.31	
DRO >C10-C28*	<10.0	10.0	10/12/2020	ND	211	106	200	5.55	
EXT DRO >C28-C36	<10.0	10.0	10/12/2020	ND					
Surrogate: 1-Chlorooctane	102	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	113	% 42.2-15	6						

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Analytical Results For:

TALON LPE
BRANDON SINCLAIR
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 10/08/2020 Sampling Date: 10/07/2020

Reported: 10/13/2020 Sampling Type: Soil

Project Name: ROSS RANCH 22 #014H Sampling Condition: Cool & Intact
Project Number: 702604.040.01 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: SPUR ENERGY - EDDY CO NM

ma/ka

Sample ID: BG - 4 (H002684-12)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2020	ND	2.12	106	2.00	3.21	
Toluene*	<0.050	0.050	10/12/2020	ND	2.13	106	2.00	3.23	
Ethylbenzene*	<0.050	0.050	10/12/2020	ND	2.07	103	2.00	2.82	
Total Xylenes*	<0.150	0.150	10/12/2020	ND	5.89	98.1	6.00	2.51	
Total BTEX	<0.300	0.300	10/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/12/2020	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2020	ND	203	101	200	3.31	
DRO >C10-C28*	<10.0	10.0	10/12/2020	ND	211	106	200	5.55	
EXT DRO >C28-C36	<10.0	10.0	10/12/2020	ND					
Surrogate: 1-Chlorooctane	116	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	130	% 42.2-15	6						

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Celey D. Keene



Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Company Name: TALON LPE							OVE			B	/4号#	0						ΔA	IALV	919	REQL	IFOT		_
Project Manager: B.SINCLAIR							F	.0.	#:	70	2604.	AHA	01	1	T	T	1	AI	TAL I	313 1	KEUL	JEST	_	
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City: ARTESIA State: N.N.	1 Zi	p: '	38	210			A	ttn:	13.	SI	NULA	D		1							1.			
Phone #: 575-744-8768 Fax #:								ddre			N CLIT			1							-1			
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ampier Name: MICHAEL COLLER								ax #:		_	-			1			2	1						
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In no event shall Cardinal be liable for incidental or consequental damages, including its or successors arising out of or related to the performance of services hereunder by Cardinal be liable for the performance of services hereunder by Cardinal by: Date: 10-8-20 Date: 10-8-20	rdinal, r	egardi	ess of v	hethe	nterrupi r such d	tions, lo claim is	based	use, or	loss of	f profit	s incurred by	client, its s	subsidiaries	applicable s,										
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CHECKED BY:

(Initials)

Sample Condition

Cool Intact
Yes Yes

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

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Page 16 of 16



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: TALON LPE Project Manager: B, SINCLAIR									BILL TO						ANALYSIS REQUEST										
									P.O. #: 702604.040.01							T		T	T		T	1			T
Address: 408 W. TEXAS AVE									Company: TALON LPE																1
City: ARTESIA State: NM Zip: 88210 Phone #: 575 - 746 - 8768 Fax #:									Attn: B.S INCLAR Address:												1				1
Project #: 70 2604 .040.01 Project Owner: SPAR ENERBY									City:																
Project Name: Koss RANCH 22 #014H Project Location: Eppy County, Nm									State: Zip: Phone #:																
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Dampier Name: MICHAEL COLLER								Fax #:							1	3									
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District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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

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

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

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

CONDITIONS

Action 123754

CONDITIONS

Operator:	OGRID:
Spur Energy Partners LLC	328947
9655 Katy Freeway	Action Number:
Houston, TX 77024	123754
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Please note that the depth to groundwater has not been adequately determined. 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. However, as site soils were remediated to the most stringent criteria closure can be granted. Note that remediation occurred 21 months after the initial release, much later than the allowed 90 days. The approved Remediation Plan stated Microblaze will be used at the site but its unclear if it was applied to site soils, causing a delay in remediation activities.	7/18/2022