



Pima Environmental Services, LLC
5614 N. Lovington Hwy.
Hobbs, NM 88240
575-964-7740

August 25, 2024

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

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

Re: Site Assessment, Remediation, and Closure Report
Folk Federal 14 Flow Line
API No. 30-015-38171
GPS: Latitude 32.836534 Longitude -104.090665
UL "H", Sec. 17, T17S, R29E
Eddy County, NM
NMOCD Ref. No. NAPP2410636699

Pima Environmental Services, LLC (Pima) has been contracted by Spur Energy to perform a spill assessment, remediation activities, and submit this closure report for a crude oil and produced water release that occurred at the Folk Federal 14 Flow Line (Folk). The initial C-141 was submitted on April 15, 2024 (Appendix C). This incident was assigned Incident ID NAPP2410636699, by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Folk is located approximately 6.50 miles northwest of Loco Hills, NM. This spill site is in Unit H, Section 17, Township 17S, Range 29E, Latitude 32.836534, Longitude -104.090665, Eddy County, NM. Figure 1 references a location map.

As per the New Mexico Bureau of Geology and Mineral Resources, the geological classification encompasses Alluvium deposits (Holocene and upper Pleistocene), detailed in Appendix B. The soil composition in this vicinity predominantly consists of Kimbrough-Stegall loams, exhibiting 0 to 3 percent slopes, as indicated in the United States Department of Agriculture Natural Resources Conservation Service soil survey (refer to Appendix B). Drainage courses in this area are characterized as well-drained. Notably, the geographical data suggests a high likelihood of karst geology in the vicinity of Folk (refer to Figure 3).

Based on information provided by the New Mexico Office of the State Engineer, the depth to the nearest groundwater in this area is approximately 76 feet below grade surface (BGS), located around 1.66 miles from the site, as indicated by water well (RA11807 POD1). Additionally, according to data from the United States Geological Survey (USGS), the closest groundwater well, USGS 325448104071801, is situated approximately 5.59 miles away and registers a water depth of 24.28 feet BGS. For precise locations, please refer to Appendix A, which contains a detailed water well map displaying both OSE and USGS well positions. Furthermore, the Pecos River, the closest waterway, is situated approximately 15.27 miles north of this site. Details regarding these water surveys are available in Appendix A for reference.

Table 1 NMAC and Closure Criteria 19.15.29

Depth to Groundwater (Appendix A)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
<50' (High Karst)	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

NAPP2410636699: On April 2, 2024, a pipeline rupture led to the release of approximately 5 barrels of crude oil and 5 barrels of produced water into a pasture. Prompt response measures halted the release, allowing for the recovery of 3 barrels of crude oil and 3 barrels of produced water. The remaining 2 barrels of crude oil and 2 barrels of produced water will be recovered during the excavation process. The impacted area covered approximately 700 square feet within the pasture.

Site Assessment and Soil Sampling Results

On April 24, 2024, Terracon Environmental mobilized personnel to the site to begin delineation activities. Sampling was conducted across the area from the release point to the full extent of the impacted zone. A total of nine subsurface samples (DS-A2, DS-B2, DS-B4, DS-C1, DS-C3, DS-C4, DS-D2, DS-D4, and DS-D5) were collected for vertical delineation. Soil samples were taken at depth intervals ranging from 0.5 feet to 8 feet below ground surface (bgs). The laboratory results from this sampling event are summarized in the accompanying data table, with the full lab report provided in Appendix E.

4-24-24 Soil Sample Results											
Soil Analytical Results Summary - Release Assessment											
Project Code: NMOCD Reference No.											
Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX ¹ (mg/Kg)	Total TPH ² (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
					EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
Release Assessment											
DS - A2	4/24/2024	0.5	Grab		112	ND	ND	ND	ND	ND	ND
	4/24/2024	2.5	Grab		112	ND	ND	ND	ND	ND	ND
	4/24/2024	5.0	Grab		480	ND	ND	21.7	ND	21.7	ND
DS - B2	4/24/2024	0.5	Grab		42000	ND	ND	653	ND	513	140
	4/24/2024	2.5	Grab		15600	ND	ND	253.5	ND	208	45.5
	4/24/2024	5.0	Grab		1390	ND	ND	ND	ND	ND	ND
DS - B4	5/10/2024	8.0	Grab		304	ND	ND	ND	ND	ND	ND
	4/24/2024	0.5	Grab		2720	ND	ND	107.1	ND	81.6	25.5
	4/24/2024	2.5	Grab		320	ND	ND	ND	ND	ND	ND
DS - C1	4/24/2024	5.0	Grab		1170	ND	ND	ND	ND	ND	ND
	5/10/2024	8.0	Grab		432	ND	ND	ND	ND	ND	ND
	4/24/2024	0.5	Grab		144	ND	ND	ND	ND	ND	ND
DS - C3	4/24/2024	5.0	Grab		1140	ND	ND	ND	ND	ND	ND
	5/10/2024	8.0	Grab		128	ND	ND	ND	ND	ND	ND
	4/24/2024	0.5	Grab		10800	ND	ND	1546	ND	1220	326
DS - C4	4/24/2024	2.5	Grab		1490	ND	ND	193.5	ND	154	39.5
	4/24/2024	5.0	Grab		1380	ND	ND	61.28	ND	51.2	10.08
	5/10/2024	8.0	Grab		592	ND	ND	ND	ND	ND	ND
DS - D2	4/24/2024	0.5	Grab		2360	ND	ND	1028	ND	817	211
	4/24/2024	5.0	Grab		848	ND	ND	129.9	ND	103	26.9
	5/10/2024	8.0	Grab		32	ND	ND	ND	ND	ND	ND
DS - D4	4/24/2024	0.5	Grab		128	ND	ND	ND	ND	ND	ND
	4/24/2024	5.0	Grab		272	ND	ND	ND	ND	ND	ND
	4/24/2024	0.5	Grab		48	ND	ND	ND	ND	ND	ND
DS - D5	4/24/2024	0.5	Grab		80	ND	ND	ND	ND	ND	ND
	4/24/2024	2.5	Grab		16	ND	ND	ND	ND	ND	ND
	4/24/2024	5.0	Grab		ND	ND	ND	ND	ND	ND	ND
								0			
								0			
								0			
								0			
NMOCD Reclamation Standards ³ (Surface to 4 ft bgs)					600	10	10	100	100		100
NMOCD Remediation Standards ⁴ (Greater than Depths of 4 ft bgs)					10,000	10	10	2,500	2500		1,000
1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes											
2. TPH = Total petroleum hydrocarbons											
3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs											
4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018											
< = Constituent was not detected above the indicated laboratory sample detection limit (SDL).											
NA = Not Analyzed											
Bold denotes concentrations above applicable laboratory SDLs.											
Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.											
In-situ = Sample is representative of material which remains in-place at the site.											
Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.											

ND- Analyte Not Detected

Each soil sample consisted of a grab sample from the impacted area, specifically representing an area not exceeding 200 square feet. A total of twenty-seven (27) samples were collected for laboratory analysis, targeting total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel, and gasoline range organics (MRO, DRO, and GRO) using EPA Method 8015D. All samples were placed into laboratory-supplied glassware, properly labeled, and stored on ice until delivered to Cardinal Laboratories in Hobbs, New Mexico (Appendix C).

Remediation Activities

From August 5 to August 15, Pima, in collaboration with M&M Excavating, deployed a heavy equipment operator and a field technician to excavate the impacted area. The excavation covered approximately 1,023 square feet, resulting in the removal of around 357 cubic yards of contaminated soil. All contaminated materials were securely transported to Lea Land, an NMOCD-approved disposal facility.

On August 13, 2024, Spur Energy proactively submitted a 48-hour sampling notification as part of the preliminary preparations leading up to the final confirmation sampling event. This precautionary step was taken with the expectation that all sampling results would fall below the closure criteria established by the New Mexico Oil Conservation Division (NMOCD). Should the results confirm compliance, the plan is to move forward with the closure process. For additional details, the 48-hour notification can be referenced in Appendix C.

On August 15, 2024, a Pima field technician was sent to the Folk site to conduct a confirmation sampling event. Five bottom samples (CS1-CS5) were collected from the base of the excavation at a depth of 5 feet below ground surface (bgs). Additionally, four sidewall samples (CSW1-CSW4) were taken, extending from the bottom to the top of the excavation's sidewalls. Each soil sample represents a 5-point composite. CSW1 measured 38 feet in length and 5 feet in depth, CSW2 measured 27 feet by 5 feet, CSW3 measured 40 feet by 5 feet, and CSW4 measured 28 feet by 5 feet. The bottom samples each covered an area of no more than 200 square feet within the excavated zone. The specific locations for each sidewall sample are indicated on our site map, with Figure 5 providing detailed illustrations of the confirmation sampling event and the excavation area. The results of this sampling event are summarized in the accompanying data table.

8-15-24 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50)								
Spur Energy/Folk Federal 14 Flow Line								
Sample Date:8-15-24		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
CS1	5'	ND	ND	ND	ND	ND	0	ND
CS2	5'	ND	ND	ND	ND	ND	0	ND
CS3	5'	ND	ND	ND	ND	ND	0	ND
CS4	5'	ND	ND	ND	ND	ND	0	ND
CS5	5'	ND	ND	ND	ND	ND	0	ND
CSW1	0-5'	ND	ND	ND	ND	ND	0	ND
CSW2	0-5'	ND	ND	ND	ND	ND	0	ND
CSW3	0-5'	ND	ND	ND	ND	ND	0	ND
CSW4	0-5'	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

Each soil sample was a 5-point composite derived from the excavated area, specifically representing an area not exceeding 200 square feet of the open excavation. A total of seven (7) samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel, and gasoline range organics (MRO, DRO, & GRO) by EPA Method 8015D. All samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to EnviroTech in Farmington, New Mexico (Appendix C).

On August 19, 2024, Pima received lab confirmation that all samples were below NMOCD closure criteria.

Upon confirmation that all soil samples met the closure standards set by the New Mexico Oil Conservation Division (NMOCD), clean backfill material was brought in and utilized to restore the excavated area, returning it to its original state.

Reclamation Activity

On August 22, 2024, MMX returned to the Folk site to initiate seeding activities. A BLM-approved LPC blend was applied over the previously excavated area. Due to the anticipated lack of moisture in the later months of the year, it was determined that seeding at this time would provide the best opportunity for sustainable growth in the area affected by the Folk release. A picture of the seeding blend is included in Appendix D.

Closure Request

After careful review, Pima requests that this incident, NAPP2410636699, be closed. Spur Energy 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 Sebastian Orozco at 619-721-4813 or Sebastian@pimaoil.com.

Respectfully,

Sebastian Orozco

Sebastian Orozco
Environmental Project Manager
Pima Environmental Services, LLC

Attachments

Figures:

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

Appendices:

- Appendix A – Referenced Water Surveys
- Appendix B – Soil Survey and Geological Map
- Appendix C – 48 Hour Notification
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports

Figures:

Figure 1- Location Map

Figure 2- Topographic Map

Figure 3- Karst Map



Figure 4- Site Map

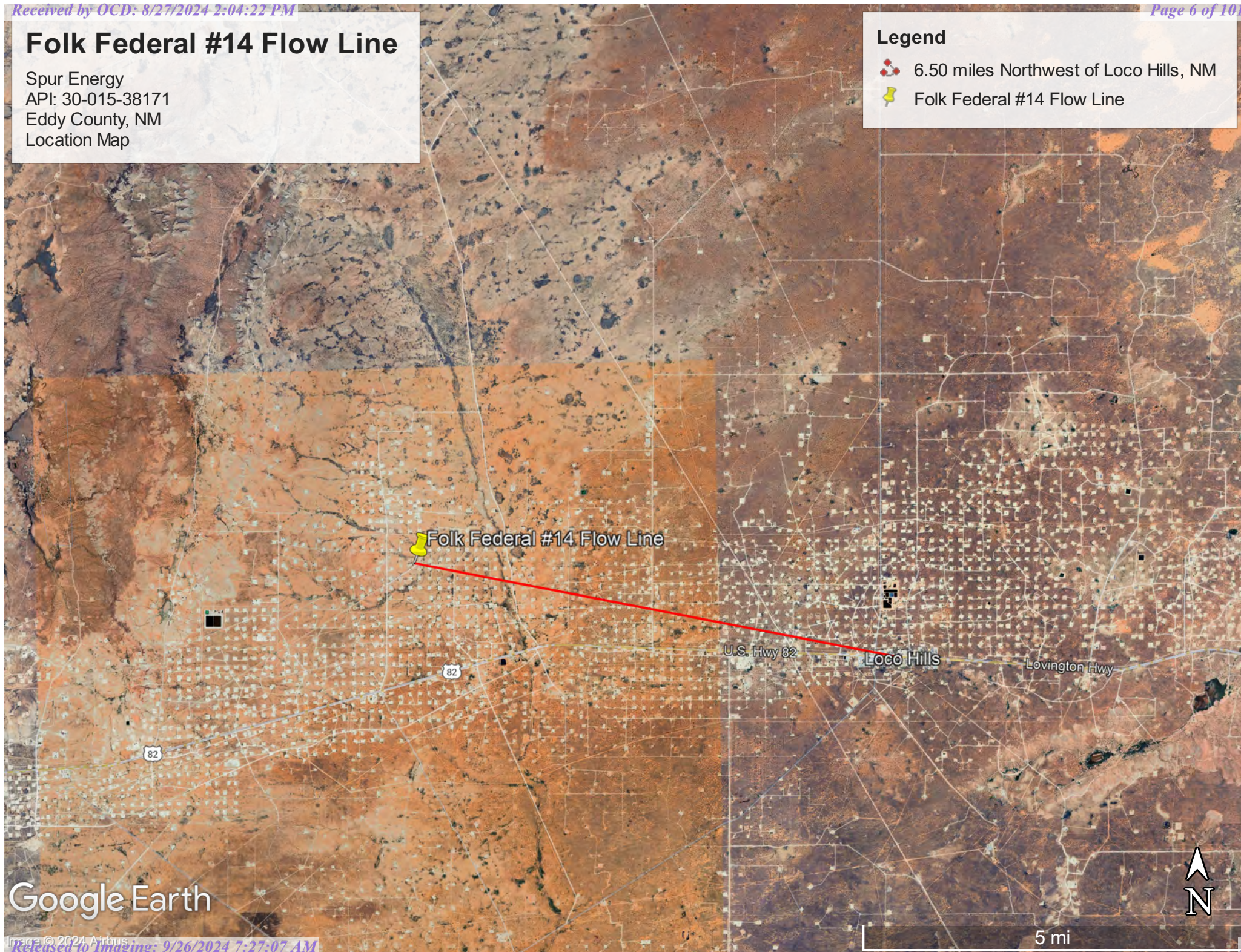
Figure 5- Confirmation Sample Map

Folk Federal #14 Flow Line

Spur Energy
API: 30-015-38171
Eddy County, NM
Location Map

Legend

-  6.50 miles Northwest of Loco Hills, NM
-  Folk Federal #14 Flow Line




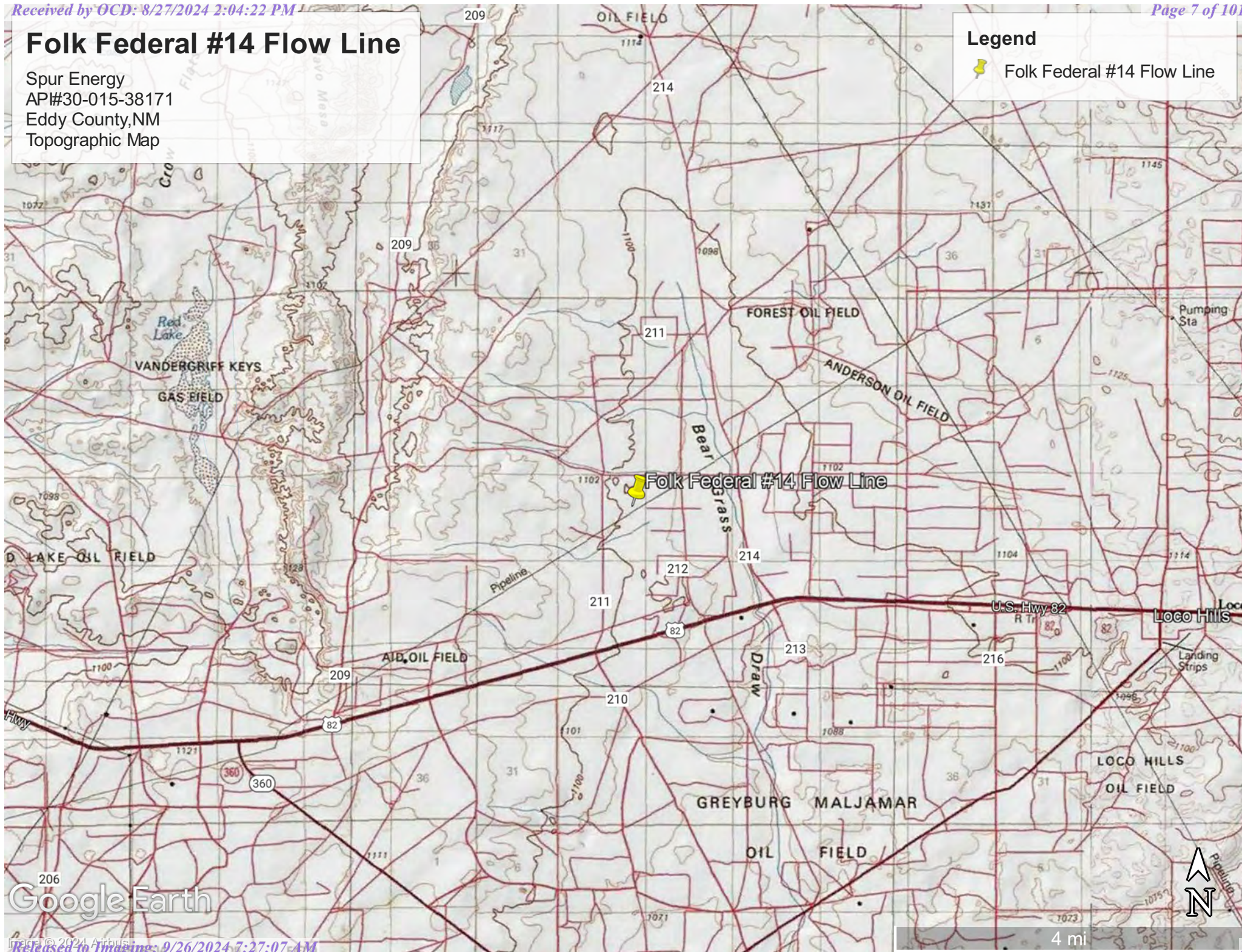
Google Earth

Folk Federal #14 Flow Line

Spur Energy
AP#30-015-38171
Eddy County, NM
Topographic Map

Legend

 Folk Federal #14 Flow Line







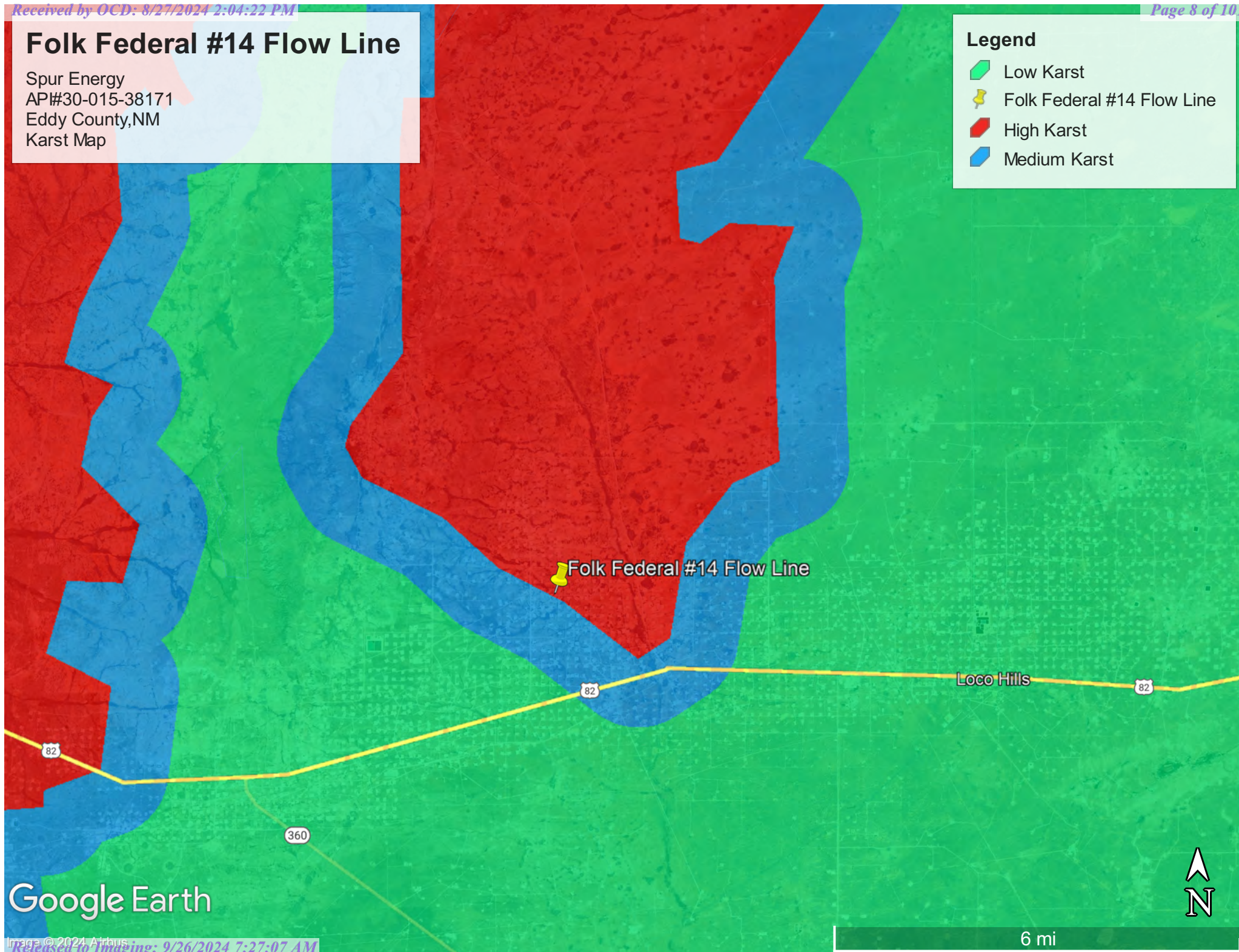
Google Earth

Folk Federal #14 Flow Line

Spur Energy
AP#30-015-38171
Eddy County, NM
Karst Map

Legend

-  Low Karst
-  Folk Federal #14 Flow Line
-  High Karst
-  Medium Karst





Google Earth


Folk Federal #14 Flow Line

Spur Energy
API: 30-015-38171
Eddy County, NM
Initial Site Map

Legend

 Delineation Sample

 Folk Federal #14 Flow Line





 Release Area



Folk Federal #14 Flow Line

Spur Energy
API: 30-015-38171
Eddy County, NM
Confirmation Site Map

Legend

-  5' Excavation
-  Composite Bottom Sample
-  Composite Side Wall Sample
-  Folk Federal #14 Flow Line





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 Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
RA 11807 POD1		RA	ED	1	2	3	22	17S	29E	587360	3631585	2977	131	76	55
RA 13395 POD1		RA	ED	3	4	3	19	17S	29E	582669	3630991	3518			
RA 12307 POD1		RA	ED	4	2	2	14	17S	28E	580495	3633981	4631	140	58	82
Average Depth to Water:														67 feet	
Minimum Depth:														58 feet	
Maximum Depth:														76 feet	

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 585104.94

Northing (Y): 3633530.94

Radius: 5000

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


6/10/24 10:49 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)			
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	RA 11807 POD1	1	2	3	22	17S	29E	587360	3631585 
<hr/>									
Driller License:		1348		Driller Company:			TAYLOR WATER WELL SERVICE		
Driller Name:		TAYLOR, CLINTON E.							
Drill Start Date:		11/23/2012		Drill Finish Date:			11/26/2012		Plug Date:
Log File Date:		03/26/2013		PCW Rcv Date:			Source:		Shallow
Pump Type:					Pipe Discharge Size:			Estimated Yield:	4 GPM
Casing Size:		4.50		Depth Well:			131 feet		Depth Water:
									76 feet
<hr/>									
Water Bearing Stratifications:				Top	Bottom	Description			
				104	128	Other/Unknown			
<hr/>									
Casing Perforations:				Top	Bottom				
				91	131				
<hr/>									

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.

6/10/24 11:29 AM

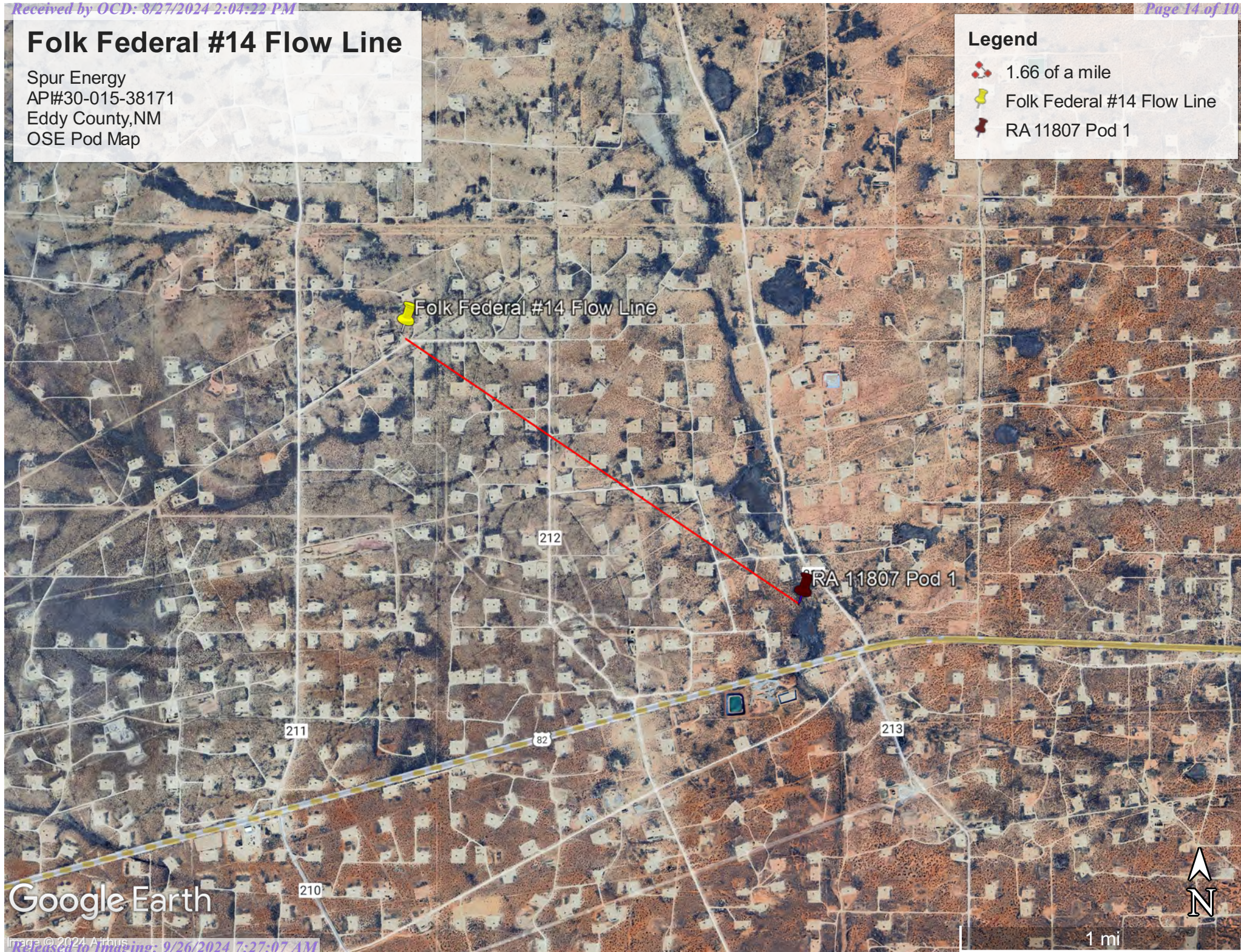
POINT OF DIVERSION SUMMARY

Folk Federal #14 Flow Line

Spur Energy
API#30-015-38171
Eddy County, NM
OSE Pod Map

Legend

- 1.66 of a mile
- Folk Federal #14 Flow Line
- RA 11807 Pod 1



Google Earth



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

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

Groundwater levels for the Nation

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

Search Results -- 1 sites found

site_no list =

- 325448104071801

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 325448104071801 16S.28E.24.22423A

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°54'48", Longitude 104°07'18" NAD27

Land-surface elevation 3,568 feet above NGVD29

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

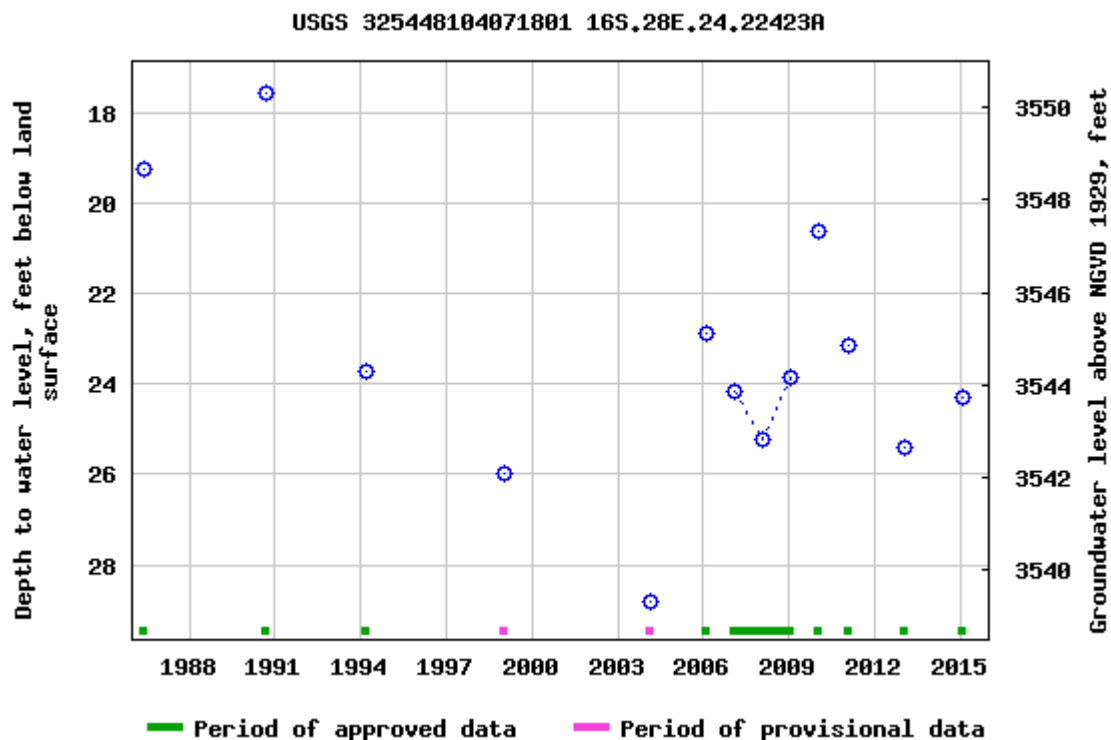
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2024-06-10 12:28:19 EDT

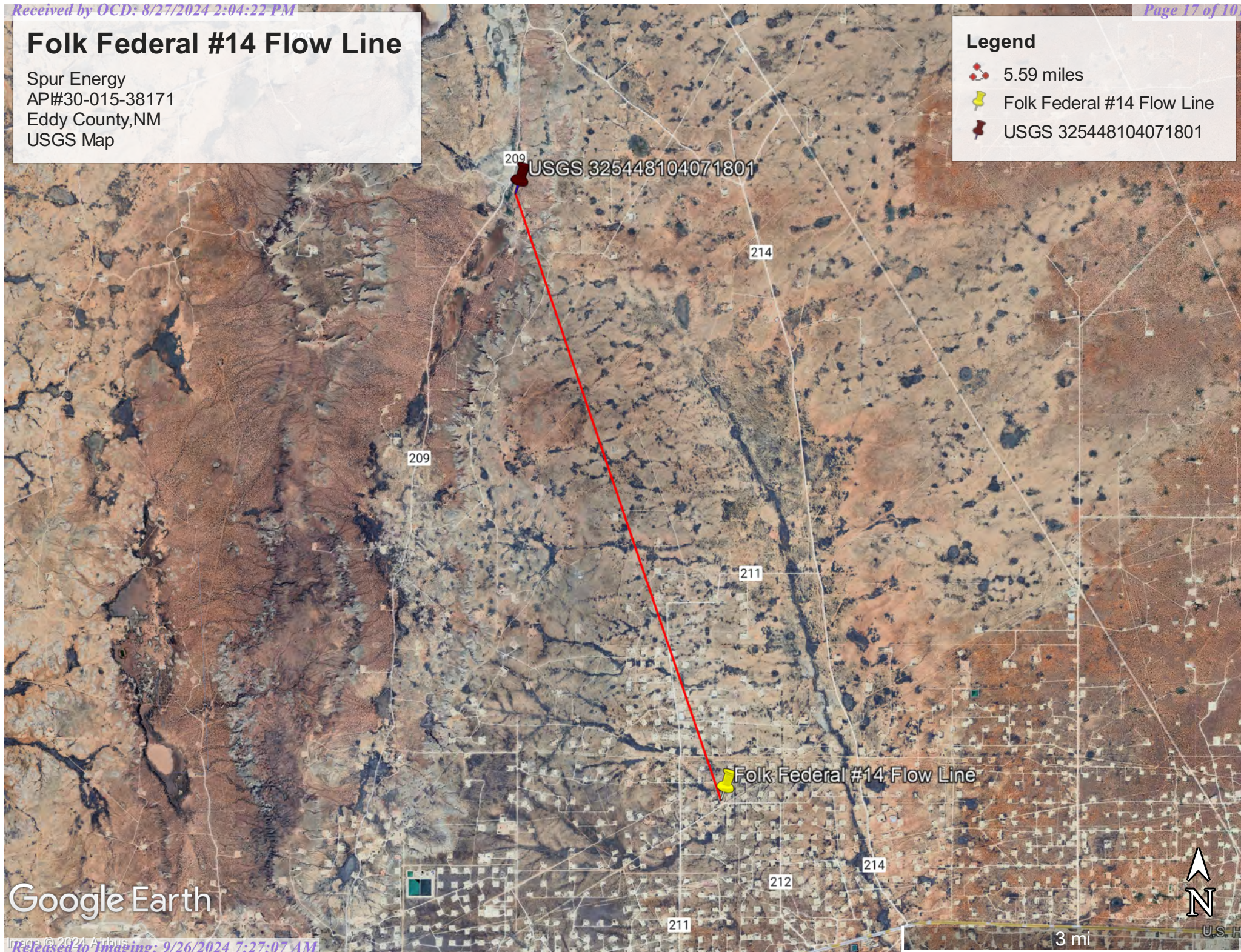
0.55 0.46 nadww02

Folk Federal #14 Flow Line

Spur Energy
API#30-015-38171
Eddy County, NM
USGS Map

Legend

- 5.59 miles
- Folk Federal #14 Flow Line
- USGS 325448104071801






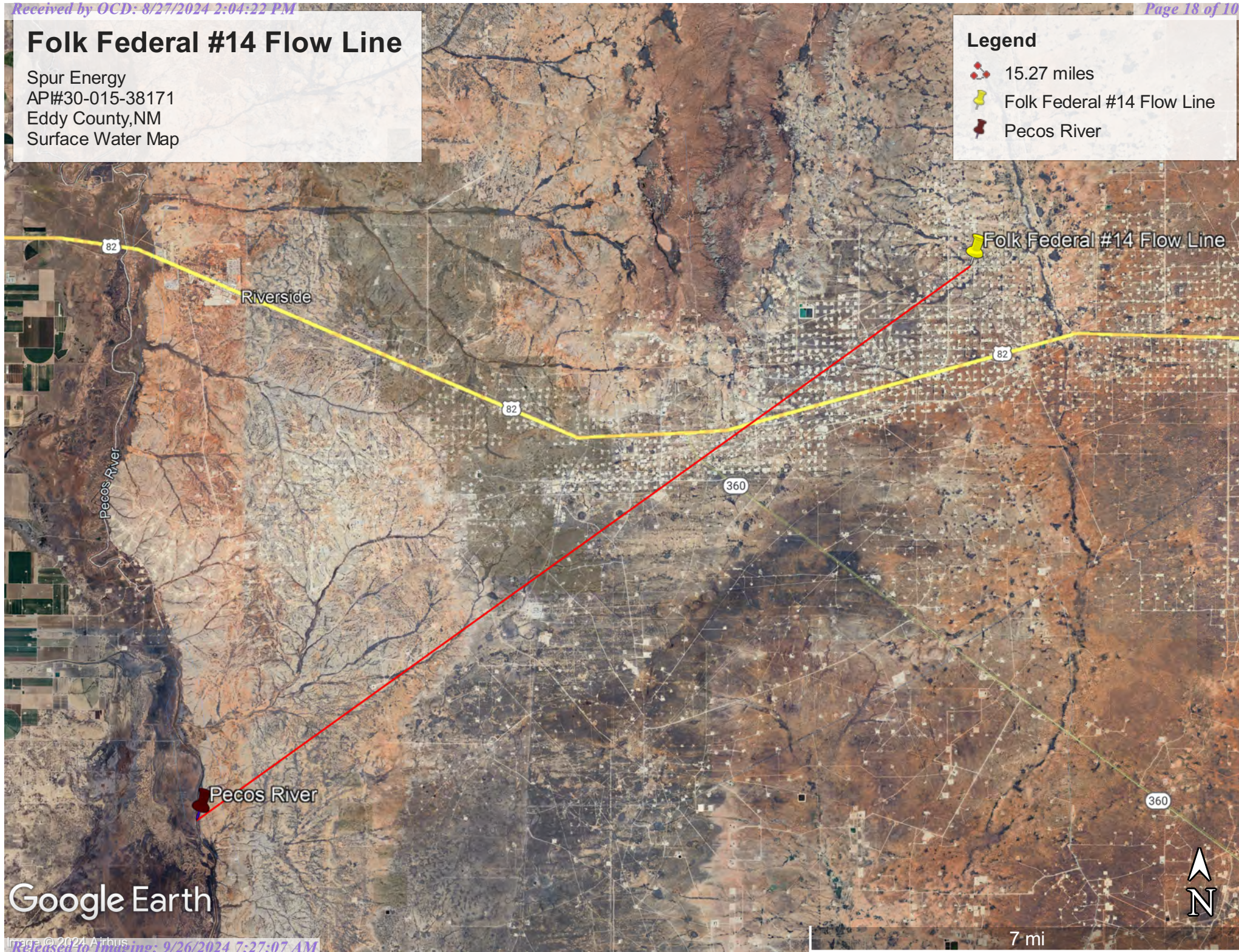
Google Earth

Folk Federal #14 Flow Line

Spur Energy
API#30-015-38171
Eddy County,NM
Surface Water Map

Legend

-  15.27 miles
-  Folk Federal #14 Flow Line
-  Pecos River



Google Earth



Appendix B

- Soil Survey & Soil Maps
- Geological Data
- FEMA Flood Map
- Wetlands Map

Map Unit Description: Kimbrough-Stegall loams, 0 to 3 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

KT—Kimbrough-Stegall loams, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w4t

Elevation: 2,750 to 5,000 feet

Mean annual precipitation: 8 to 16 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 230 days

Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough and similar soils: 70 percent

Stegall and similar soils: 25 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kimbrough

Setting

Landform: Plains, alluvial fans

Landform position (three-dimensional): Talf, rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 3 inches: loam

H2 - 3 to 9 inches: loam

H3 - 9 to 60 inches: indurated

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 8 to 20 inches to petrocalcic

Drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Map Unit Description: Kimbrough-Stegall loams, 0 to 3 percent slopes---Eddy Area, New Mexico

Hydrologic Soil Group: D
Ecological site: R070BC025NM - Shallow
Hydric soil rating: No

Description of Stegall

Setting

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

Typical profile

H1 - 0 to 5 inches: loam
H2 - 5 to 28 inches: clay loam
H3 - 28 to 32 inches: indurated
H4 - 32 to 60 inches: variable

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 20 to 40 inches to petrocalcic
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 90 percent
Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Low (about 4.8 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 5 percent
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 19, Sep 7, 2023

Soil Map—Eddy Area, New Mexico



Natural Resources
Conservation Service


Web Soil Survey
National Cooperative Soil Survey

8/15/2024
Page 1 of 3

Soil Map—Eddy Area, New Mexico

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 19, Sep 7, 2023

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

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KT	Kimbrough-Stegall loams, 0 to 3 percent slopes	1.4	100.0%
Totals for Area of Interest		1.4	100.0%

(<https://www.usgs.gov/>)

Mineral Resources (<https://www.usgs.gov/energy-and-minerals/mineral-resources-program>)
/ Online Spatial Data (/) / Geology (/geology/) / by state (/geology/state/)
/ New Mexico (/geology/state/state.php?state=NM)

Alluvium

XML (/geology/state/xml/NMQa;0)

JSON (/geology/state/json/NMQa;0)

Shapefile (/geology/state/unit-shape.php?unit=NMQa;0)

Alluvium

State	New Mexico (/geology/state/state.php?state=NM)
Name	Alluvium
Geologic age	Holocene to upper Pleistocene
Lithologic constituents	Major Unconsolidated (Alluvial)
References	<div>Green, G.N., Jones, G.E., and Anderson, O.J., 1997, The Digital Geologic Map of New Mexico in ARC/INFO Format: U.S. Geological Survey Open-File Report 97-0052, 9 p., scale 1:500,000. https://pubs.er.usgs.gov/publication/ofr9752 (https://pubs.er.usgs.gov/publication/ofr9752)</div>
NGMDB product	<div>NGMDB product page for 59219 (https://ngmdb.usgs.gov/Prodesc/proddesc_59219.htm) NGMDB product page for 22974 (https://ngmdb.usgs.gov/Prodesc/proddesc_22974.htm)</div>

Counties

Bernalillo (/geology/state/fips-unit.php?code=f35001) - Catron (/geology/state/fips-unit.php?code=f35003) - Chaves (/geology/state/fips-unit.php?code=f35005) - Cibola (/geology/state/fips-unit.php?code=f35006) - Colfax (/geology/state/fips-unit.php?code=f35007) - Curry (/geology/state/fips-unit.php?code=f35009) - DeBaca (/geology/state/fips-unit.php?code=f35011) - Dona Ana (/geology/state/fips-unit.php?code=f35013) - Eddy (/geology/state/fips-unit.php?code=f35015) - Grant (/geology/state/fips-unit.php?code=f35017) - Guadalupe (/geology/state/fips-unit.php?code=f35019) - Harding (/geology/state/fips-unit.php?code=f35021) - Hidalgo (/geology/state/fips-unit.php?code=f35023) - Lea (/geology/state/fips-unit.php?code=f35025) - Lincoln (/geology/state/fips-unit.php?code=f35027) - Luna (/geology/state/fips-unit.php?code=f35029) - McKinley (/geology/state/fips-unit.php?code=f35031) - Mora (/geology/state/fips-unit.php?code=f35033) - Otero (/geology/state/fips-unit.php?code=f35035) - Quay (/geology/state/fips-unit.php?code=f35037) - Rio Arriba (/geology/state/fips-unit.php?code=f35039) - Roosevelt (/geology/state/fips-unit.php?code=f35041) - Sandoval (/geology/state/fips-unit.php?code=f35043) - San Juan (/geology/state/fips-unit.php?code=f35045) - San Miguel (/geology/state/fips-unit.php?code=f35047) - Santa Fe (/geology/state/fips-unit.php?code=f35049) - Sierra (/geology/state/fips-unit.php?code=f35051) - Socorro (/geology/state/fips-unit.php?code=f35053) - Taos (/geology/state/fips-unit.php?code=f35055) - Torrance (/geology/state/fips-unit.php?code=f35057) - Union (/geology/state/fips-unit.php?code=f35059) - Valencia (/geology/state/fips-unit.php?code=f35061)

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Accessibility (<https://www2.usgs.gov/laws/accessibility.html>) | Site Map (<https://www.usgs.gov/sitemap.html>) |

Contact USGS (<https://answers.usgs.gov/>)

U.S. Department of the Interior (<https://www.doi.gov/>) | DOI Inspector General (<https://www.doiig.gov/>) |

White House (<https://www.whitehouse.gov/>) | E-gov (<https://www.whitehouse.gov/omb/management/egov/>) |

No Fear Act (<https://www.doi.gov/pmb/eeo/no-fear-act>) | FOIA (<https://www2.usgs.gov/foia>)

Folk Federal #14 Flow Line

Spur Energy
API: 30-015-38171
Eddy County, NM
Geological Map

Legend

- Alluvium
- Eolian and piedmont deposits
- Firecracker State Battery
- Ogallala Formation

Folk Federal #14 Flow Line

Google Earth

2 mi



National Flood Hazard Layer FIRMette



104°5'48"W 32°50'26"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

104°5'11"W 32°49'56"N

Released to Imaging: 9/26/2024 9:27:07 AM

Basemap Imagery Source: USGS National Map 2023

Legend

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

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

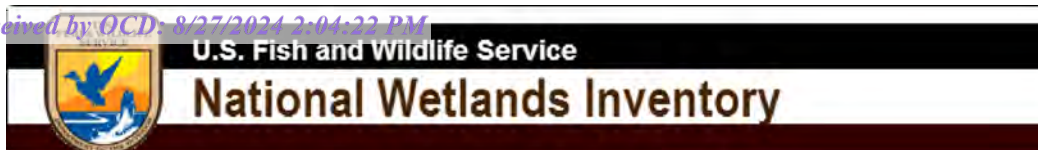


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/10/2024 at 1:31 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.



Folk Federal #14 Flow Line



June 10, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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



Appendix C

○ 48-Hour Notification

Sebastian@pimaoil.com

From: OCDOnline@state.nm.us
Sent: Tuesday, August 13, 2024 4:35 PM
To: sebastian@pimaoil.com
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 373569

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2410636699.

The sampling event is expected to take place:

When: 08/15/2024 @ 16:45

Where: H-17-17S-29E 0 FNL 0 FEL (32.836534,-104.090665)

Additional Information: Marisa Loya
575-416-0639

Additional Instructions: 32.836534,-104.090665

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

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

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505



Appendix D

○ Photographic Documentation



PHOTOGRAPHIC DOCUMENTATION

SITE NAME: Folk Federal 14 Flow Line

PHOTO LOG TYPE: Pre-Excavation



Photograph showing the release area prior to the commencement of excavation facing Northeast



Photograph showing the release area prior to the commencement of excavation facing Southeast



Photograph showing the release area prior to the commencement of excavation facing Southeast



Photograph showing the release area prior to the commencement of excavation facing West



Photograph showing the progress of the excavation.



Photograph showing the progress of the excavation.



Photograph showing the progress of the excavation.



Photograph showing the progress of the excavation.



Photograph shows the excavation is complete and backfilled with clean material.



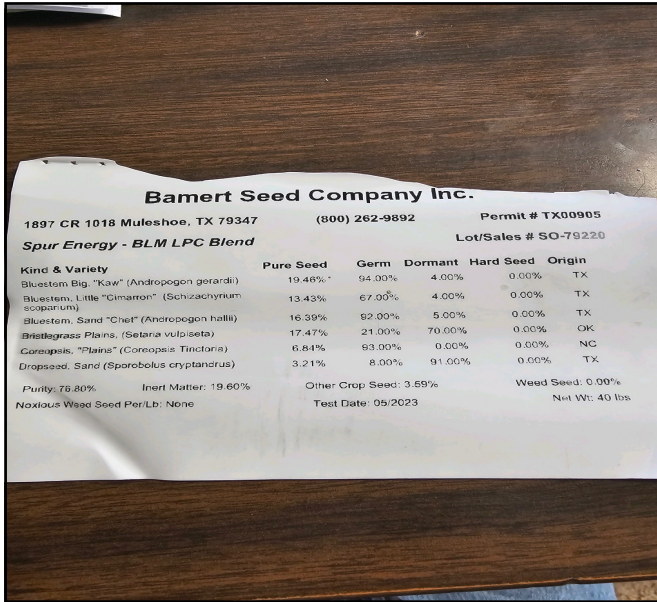
Photograph shows the excavation is complete and backfilled with clean material.



Photograph shows the excavation is complete and backfilled with clean material.



Photograph shows the excavation is complete and backfilled with clean material.



BLM approved seeding blend.



Seeding in progress.



Seeding in progress.



Seeding in progress.



Appendix E

○ Laboratory Reports



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

April 30, 2024

JOSEPH GUESNIER

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: FOLK 14

Enclosed are the results of analyses for samples received by the laboratory on 04/25/24 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 04/25/2024
 Reported: 04/30/2024
 Project Name: FOLK 14
 Project Number: KH247025
 Project Location: SPUR - EDDY CO

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - C1 0.5' (H242217-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	1.51	
Toluene*	<0.050	0.050	04/26/2024	ND	2.11	106	2.00	4.21	
Ethylbenzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	2.59	
Total Xylenes*	<0.150	0.150	04/26/2024	ND	6.42	107	6.00	2.05	
Total BTEx	<0.300	0.300	04/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/26/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	183	91.3	200	0.0301	
DRO >C10-C28*	<10.0	10.0	04/26/2024	ND	193	96.7	200	0.471	
EXT DRO >C28-C36	<10.0	10.0	04/26/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 04/25/2024
 Reported: 04/30/2024
 Project Name: FOLK 14
 Project Number: KH247025
 Project Location: SPUR - EDDY CO

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - C1 5' (H242217-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	1.51	
Toluene*	<0.050	0.050	04/26/2024	ND	2.11	106	2.00	4.21	
Ethylbenzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	2.59	
Total Xylenes*	<0.150	0.150	04/26/2024	ND	6.42	107	6.00	2.05	
Total BTX	<0.300	0.300	04/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	04/26/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	183	91.3	200	0.0301	
DRO >C10-C28*	<10.0	10.0	04/26/2024	ND	193	96.7	200	0.471	
EXT DRO >C28-C36	<10.0	10.0	04/26/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 04/25/2024
 Reported: 04/30/2024
 Project Name: FOLK 14
 Project Number: KH247025
 Project Location: SPUR - EDDY CO

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - C4 0.5' (H242217-03)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	1.51	
Toluene*	<0.050	0.050	04/26/2024	ND	2.11	106	2.00	4.21	
Ethylbenzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	2.59	
Total Xylenes*	<0.150	0.150	04/26/2024	ND	6.42	107	6.00	2.05	
Total BTX	<0.300	0.300	04/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2360	16.0	04/26/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	183	91.3	200	0.0301	
DRO >C10-C28*	817	10.0	04/26/2024	ND	193	96.7	200	0.471	
EXT DRO >C28-C36	211	10.0	04/26/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 143 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 04/25/2024
 Reported: 04/30/2024
 Project Name: FOLK 14
 Project Number: KH247025
 Project Location: SPUR - EDDY CO

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - C4 5' (H242217-04)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	1.51	
Toluene*	<0.050	0.050	04/26/2024	ND	2.11	106	2.00	4.21	
Ethylbenzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	2.59	
Total Xylenes*	<0.150	0.150	04/26/2024	ND	6.42	107	6.00	2.05	
Total BTX	<0.300	0.300	04/26/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	04/26/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	183	91.3	200	0.0301	
DRO >C10-C28*	103	10.0	04/26/2024	ND	193	96.7	200	0.471	
EXT DRO >C28-C36	26.9	10.0	04/26/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 142 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 04/25/2024
 Reported: 04/30/2024
 Project Name: FOLK 14
 Project Number: KH247025
 Project Location: SPUR - EDDY CO

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - D4 0.5' (H242217-05)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	1.51	
Toluene*	<0.050	0.050	04/26/2024	ND	2.11	106	2.00	4.21	
Ethylbenzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	2.59	
Total Xylenes*	<0.150	0.150	04/26/2024	ND	6.42	107	6.00	2.05	
Total BTX	<0.300	0.300	04/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/26/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	183	91.3	200	0.0301	
DRO >C10-C28*	<10.0	10.0	04/26/2024	ND	193	96.7	200	0.471	
EXT DRO >C28-C36	<10.0	10.0	04/26/2024	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 04/25/2024
 Reported: 04/30/2024
 Project Name: FOLK 14
 Project Number: KH247025
 Project Location: SPUR - EDDY CO

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - D2 0.5' (H242217-07)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	1.51		
Toluene*	<0.050	0.050	04/26/2024	ND	2.11	106	2.00	4.21		
Ethylbenzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	2.59		
Total Xylenes*	<0.150	0.150	04/26/2024	ND	6.42	107	6.00	2.05		
Total BTX	<0.300	0.300	04/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	04/26/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	183	91.3	200	0.0301	
DRO >C10-C28*	<10.0	10.0	04/26/2024	ND	193	96.7	200	0.471	
EXT DRO >C28-C36	<10.0	10.0	04/26/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 04/25/2024
 Reported: 04/30/2024
 Project Name: FOLK 14
 Project Number: KH247025
 Project Location: SPUR - EDDY CO

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - D2 5' (H242217-08)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	1.51		
Toluene*	<0.050	0.050	04/26/2024	ND	2.11	106	2.00	4.21		
Ethylbenzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	2.59		
Total Xylenes*	<0.150	0.150	04/26/2024	ND	6.42	107	6.00	2.05		
Total BTX	<0.300	0.300	04/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	04/26/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	183	91.3	200	0.0301	
DRO >C10-C28*	<10.0	10.0	04/26/2024	ND	193	96.7	200	0.471	
EXT DRO >C28-C36	<10.0	10.0	04/26/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 04/25/2024
 Reported: 04/30/2024
 Project Name: FOLK 14
 Project Number: KH247025
 Project Location: SPUR - EDDY CO

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - B4 0.5' (H242217-09)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	1.51	
Toluene*	<0.050	0.050	04/26/2024	ND	2.11	106	2.00	4.21	
Ethylbenzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	2.59	
Total Xylenes*	<0.150	0.150	04/26/2024	ND	6.42	107	6.00	2.05	
Total BTX	<0.300	0.300	04/26/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2720	16.0	04/26/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	183	91.3	200	0.0301	
DRO >C10-C28*	81.6	10.0	04/26/2024	ND	193	96.7	200	0.471	
EXT DRO >C28-C36	25.5	10.0	04/26/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 04/25/2024
 Reported: 04/30/2024
 Project Name: FOLK 14
 Project Number: KH247025
 Project Location: SPUR - EDDY CO

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - B4 2.5' (H242217-10)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	1.51	
Toluene*	<0.050	0.050	04/26/2024	ND	2.11	106	2.00	4.21	
Ethylbenzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	2.59	
Total Xylenes*	<0.150	0.150	04/26/2024	ND	6.42	107	6.00	2.05	
Total BTX	<0.300	0.300	04/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	04/26/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	183	91.3	200	0.0301	
DRO >C10-C28*	<10.0	10.0	04/26/2024	ND	193	96.7	200	0.471	
EXT DRO >C28-C36	<10.0	10.0	04/26/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 04/25/2024
 Reported: 04/30/2024
 Project Name: FOLK 14
 Project Number: KH247025
 Project Location: SPUR - EDDY CO

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - B4 5' (H242217-11)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	1.51	
Toluene*	<0.050	0.050	04/26/2024	ND	2.11	106	2.00	4.21	
Ethylbenzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	2.59	
Total Xylenes*	<0.150	0.150	04/26/2024	ND	6.42	107	6.00	2.05	
Total BTX	<0.300	0.300	04/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	04/26/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	183	91.3	200	0.0301	
DRO >C10-C28*	<10.0	10.0	04/26/2024	ND	193	96.7	200	0.471	
EXT DRO >C28-C36	<10.0	10.0	04/26/2024	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 04/25/2024
 Reported: 04/30/2024
 Project Name: FOLK 14
 Project Number: KH247025
 Project Location: SPUR - EDDY CO

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - B2 0.5' (H242217-12)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	1.51	
Toluene*	<0.050	0.050	04/26/2024	ND	2.11	106	2.00	4.21	
Ethylbenzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	2.59	
Total Xylenes*	<0.150	0.150	04/26/2024	ND	6.42	107	6.00	2.05	
Total BTX	<0.300	0.300	04/26/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	42000	16.0	04/26/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	186	93.1	200	2.02	
DRO >C10-C28*	513	10.0	04/26/2024	ND	173	86.3	200	0.660	
EXT DRO >C28-C36	140	10.0	04/26/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 04/25/2024
 Reported: 04/30/2024
 Project Name: FOLK 14
 Project Number: KH247025
 Project Location: SPUR - EDDY CO

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - B2 2.5' (H242217-13)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	1.51	
Toluene*	<0.050	0.050	04/26/2024	ND	2.11	106	2.00	4.21	
Ethylbenzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	2.59	
Total Xylenes*	<0.150	0.150	04/26/2024	ND	6.42	107	6.00	2.05	
Total BTX	<0.300	0.300	04/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	15600	16.0	04/26/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	186	93.1	200	2.02	
DRO >C10-C28*	208	10.0	04/26/2024	ND	173	86.3	200	0.660	
EXT DRO >C28-C36	54.5	10.0	04/26/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 04/25/2024
 Reported: 04/30/2024
 Project Name: FOLK 14
 Project Number: KH247025
 Project Location: SPUR - EDDY CO

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - B2 5' (H242217-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	1.51		
Toluene*	<0.050	0.050	04/26/2024	ND	2.11	106	2.00	4.21		
Ethylbenzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	2.59		
Total Xylenes*	<0.150	0.150	04/26/2024	ND	6.42	107	6.00	2.05		
Total BTEX	<0.300	0.300	04/26/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1390	16.0	04/26/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	186	93.1	200	2.02	
DRO >C10-C28*	<10.0	10.0	04/26/2024	ND	173	86.3	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	04/26/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 04/25/2024
 Reported: 04/30/2024
 Project Name: FOLK 14
 Project Number: KH247025
 Project Location: SPUR - EDDY CO

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - A2 0.5' (H242217-15)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	1.51	
Toluene*	<0.050	0.050	04/26/2024	ND	2.11	106	2.00	4.21	
Ethylbenzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	2.59	
Total Xylenes*	<0.150	0.150	04/26/2024	ND	6.42	107	6.00	2.05	
Total BTX	<0.300	0.300	04/26/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/29/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	186	93.1	200	2.02	
DRO >C10-C28*	<10.0	10.0	04/26/2024	ND	173	86.3	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	04/26/2024	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 04/25/2024
 Reported: 04/30/2024
 Project Name: FOLK 14
 Project Number: KH247025
 Project Location: SPUR - EDDY CO

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - A2 2.5' (H242217-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	1.51		
Toluene*	<0.050	0.050	04/26/2024	ND	2.11	106	2.00	4.21		
Ethylbenzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	2.59		
Total Xylenes*	<0.150	0.150	04/26/2024	ND	6.42	107	6.00	2.05		
Total BTEX	<0.300	0.300	04/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/29/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	186	93.1	200	2.02	
DRO >C10-C28*	<10.0	10.0	04/26/2024	ND	173	86.3	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	04/26/2024	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.1 % 49.1-148

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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 04/25/2024
 Reported: 04/30/2024
 Project Name: FOLK 14
 Project Number: KH247025
 Project Location: SPUR - EDDY CO

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - A2 5' (H242217-17)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	1.51		
Toluene*	<0.050	0.050	04/26/2024	ND	2.11	106	2.00	4.21		
Ethylbenzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	2.59		
Total Xylenes*	<0.150	0.150	04/26/2024	ND	6.42	107	6.00	2.05		
Total BTX	<0.300	0.300	04/26/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	04/29/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	186	93.1	200	2.02	
DRO >C10-C28*	21.7	10.0	04/26/2024	ND	173	86.3	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	04/26/2024	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 04/25/2024
 Reported: 04/30/2024
 Project Name: FOLK 14
 Project Number: KH247025
 Project Location: SPUR - EDDY CO

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - D5 0.5' (H242217-18)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	1.51	
Toluene*	<0.050	0.050	04/26/2024	ND	2.11	106	2.00	4.21	
Ethylbenzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	2.59	
Total Xylenes*	<0.150	0.150	04/26/2024	ND	6.42	107	6.00	2.05	
Total BTX	<0.300	0.300	04/26/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/29/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	186	93.1	200	2.02	
DRO >C10-C28*	<10.0	10.0	04/26/2024	ND	173	86.3	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	04/26/2024	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 04/25/2024
 Reported: 04/30/2024
 Project Name: FOLK 14
 Project Number: KH247025
 Project Location: SPUR - EDDY CO

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - D5 2.5' (H242217-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	1.51		
Toluene*	<0.050	0.050	04/26/2024	ND	2.11	106	2.00	4.21		
Ethylbenzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	2.59		
Total Xylenes*	<0.150	0.150	04/26/2024	ND	6.42	107	6.00	2.05		
Total BTEX	<0.300	0.300	04/26/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/29/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	186	93.1	200	2.02	
DRO >C10-C28*	<10.0	10.0	04/26/2024	ND	173	86.3	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	04/26/2024	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 49.1-148

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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 04/25/2024
 Reported: 04/30/2024
 Project Name: FOLK 14
 Project Number: KH247025
 Project Location: SPUR - EDDY CO

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - D5 5' (H242217-20)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	1.51		
Toluene*	<0.050	0.050	04/26/2024	ND	2.11	106	2.00	4.21		
Ethylbenzene*	<0.050	0.050	04/26/2024	ND	2.16	108	2.00	2.59		
Total Xylenes*	<0.150	0.150	04/26/2024	ND	6.42	107	6.00	2.05		
Total BTX	<0.300	0.300	04/26/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/29/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	186	93.1	200	2.02	
DRO >C10-C28*	<10.0	10.0	04/26/2024	ND	173	86.3	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	04/26/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 04/25/2024
 Reported: 04/30/2024
 Project Name: FOLK 14
 Project Number: KH247025
 Project Location: SPUR - EDDY CO

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - C3 (H242217-21)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2024	ND	1.79	89.3	2.00	7.30	
Toluene*	<0.050	0.050	04/26/2024	ND	1.73	86.6	2.00	7.64	
Ethylbenzene*	<0.050	0.050	04/26/2024	ND	1.70	85.1	2.00	7.96	
Total Xylenes*	<0.150	0.150	04/26/2024	ND	4.95	82.4	6.00	8.11	
Total BTEX	<0.300	0.300	04/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10800	16.0	04/29/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	186	93.1	200	2.02	
DRO >C10-C28*	1220	10.0	04/26/2024	ND	173	86.3	200	0.660	
EXT DRO >C28-C36	326	10.0	04/26/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 04/25/2024
 Reported: 04/30/2024
 Project Name: FOLK 14
 Project Number: KH247025
 Project Location: SPUR - EDDY CO

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - C3 (H242217-22)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2024	ND	1.79	89.3	2.00	7.30	
Toluene*	<0.050	0.050	04/26/2024	ND	1.73	86.6	2.00	7.64	
Ethylbenzene*	<0.050	0.050	04/26/2024	ND	1.70	85.1	2.00	7.96	
Total Xylenes*	<0.150	0.150	04/26/2024	ND	4.95	82.4	6.00	8.11	
Total BTEX	<0.300	0.300	04/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1490	16.0	04/29/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	186	93.1	200	2.02	
DRO >C10-C28*	154	10.0	04/26/2024	ND	173	86.3	200	0.660	
EXT DRO >C28-C36	39.5	10.0	04/26/2024	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 04/25/2024
 Reported: 04/30/2024
 Project Name: FOLK 14
 Project Number: KH247025
 Project Location: SPUR - EDDY CO

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - C3 (H242217-23)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2024	ND	1.79	89.3	2.00	7.30		
Toluene*	<0.050	0.050	04/26/2024	ND	1.73	86.6	2.00	7.64		
Ethylbenzene*	<0.050	0.050	04/26/2024	ND	1.70	85.1	2.00	7.96		
Total Xylenes*	<0.150	0.150	04/26/2024	ND	4.95	82.4	6.00	8.11		
Total BTX	<0.300	0.300	04/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1380	16.0	04/29/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	186	93.1	200	2.02	
DRO >C10-C28*	51.2	10.0	04/26/2024	ND	173	86.3	200	0.660	
EXT DRO >C28-C36	10.8	10.0	04/26/2024	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.2 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

143

Company Name: Terracon						BILL TO																						
Project Manager: Joseph Guesnier						P.O. #: 810																						
Address: 4518 W. Pierce Street						Company: Spur Energy Partners LLC																						
City: Carlsbad						Attn: Kathy Purvis																						
Phone #: 806-507-7057						Address: 2407 Pecos Ave																						
Fax #:						City: Artesia																						
Project #: KH247025						State: NM Zip: 88210																						
Project Name: Folk 14						Phone #: 575-441-8619																						
Project Location: Eddy County						Fax #:																						
Sampler Name: Gus Sanchez																												
FOR LAB USE ONLY																												
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING																				
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride (SM 4500 CL-B)	TPH Extended 8015	BTEX (EPA Method 8021B)											
H342317	1	D5-C1	0.5'	G.I.	✓									9:45	✓	✓												
	2	D5-C1	5'											10:15	✓	✓												
	3	D5-C4	0.5'											14:08	✓	✓												
	4	D5-C4	5'											14:57	✓	✓												
	5	D5-D4	0.5'											15:17														
	6	D5-D4	5'											15:40														
	7	D5-D2	0.5'											12:03														
	8	D5-D2	5'											12:34														
	9	D5-B4	0.5'											11:02														
	10	D5-B4	2.5'											11:18														
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Reinquished By:						Date: 4-25-24	Received By:						Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:						All Results are emailed. Please provide Email address: Gus.Sanchez@terracon.com;									
Relinquished By:						Time: 1400	Received By:						REMARKS:						Turnaround Time: Standard Rush Bacteria (only) Sample Condition Cool Intact Observed Temp.: C Corrected Temp.: C									
Delivered By: (Circle One)						Observed Temp.: C 1.8	Sample Condition Cool Intact Yes Yes No No						CHECKED BY: (Initials)						Thermometer ID #449 #440 Correction Factor -0.06 SP-4185124									
Sampler - UPS - Bus - Other:						Corrected Temp.: C																						



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO										ANALYSIS REQUEST									
Company Name: Terracon										P.O. #: 810									
Project Manager: Joseph Guesnier										Company: Spur Energy Partners LLC									
Address: 4518 W. Pierce Street										Attn: Kathy Purvis									
City: Carlsbad										Address: 2407 Pecos Ave									
Phone #: 806-507-7057										City: Artesia									
Project #: KH247025										State: NM Zip: 88210									
Project Name: Folk 14										Phone #: 575-441-8619									
Project Location: Eddy County										Fax #:									
Sampler Name: Gus Sanchez																			
FOR LAB USE ONLY																			
Lab I.D.										Sample I.D.									
H24-3217										(G)RAB OR (C)OMP.									
21										# CONTAINERS									
22										GROUNDWATER									
23										WASTEWATER									
24										SOIL									
25										OIL									
26										SLUDGE									
27										OTHER :									
28										ACID/BASE:									
29										ICE / COOL									
30										OTHER :									
31										DATE									
32										TIME									
33										Chloride (SM 4500 CL-B)									
34										TPH Extended 8015									
35										BTEX (EPA Method 8021B)									
36																			
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May 17, 2024

JOSEPH GUESNIER

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: FOLK 14

Enclosed are the results of analyses for samples received by the laboratory on 05/14/24 9:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 05/14/2024
 Reported: 05/17/2024
 Project Name: FOLK 14
 Project Number: KH247025
 Project Location: SPUR - EDDY CO

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - B2 8' (H242613-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.97	98.6	2.00	0.0453	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	0.648	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.97	98.3	2.00	1.03	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.17	103	6.00	1.08	
Total BTX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/15/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2024	ND	194	97.0	200	0.609	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	200	100	200	5.50	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.7 % 49.1-148

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



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 05/14/2024
 Reported: 05/17/2024
 Project Name: FOLK 14
 Project Number: KH247025
 Project Location: SPUR - EDDY CO

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - C3 8' (H242613-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.97	98.6	2.00	0.0453	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	0.648	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.97	98.3	2.00	1.03	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.17	103	6.00	1.08	
Total BTX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	05/15/2024	ND	400	100	400	11.3	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2024	ND	194	97.0	200	0.609	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	200	100	200	5.50	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 05/14/2024
 Reported: 05/17/2024
 Project Name: FOLK 14
 Project Number: KH247025
 Project Location: SPUR - EDDY CO

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - C4 8' (H242613-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.97	98.6	2.00	0.0453	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	0.648	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.97	98.3	2.00	1.03	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.17	103	6.00	1.08	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/15/2024	ND	400	100	400	11.3	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2024	ND	194	97.0	200	0.609	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	200	100	200	5.50	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 05/14/2024
 Reported: 05/17/2024
 Project Name: FOLK 14
 Project Number: KH247025
 Project Location: SPUR - EDDY CO

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - B4 8' (H242613-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.97	98.6	2.00	0.0453	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	0.648	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.97	98.3	2.00	1.03	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.17	103	6.00	1.08	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	05/15/2024	ND	400	100	400	11.3	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2024	ND	194	97.0	200	0.609	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	200	100	200	5.50	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 05/14/2024
 Reported: 05/17/2024
 Project Name: FOLK 14
 Project Number: KH247025
 Project Location: SPUR - EDDY CO

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - C1 8' (H242613-05)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.97	98.6	2.00	0.0453	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	0.648	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.97	98.3	2.00	1.03	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.17	103	6.00	1.08	
Total BTX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/15/2024	ND	400	100	400	11.3	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2024	ND	194	97.0	200	0.609	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	200	100	200	5.50	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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



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

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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A handwritten signature in black ink, appearing to read "Mike Snyder".

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Terracon

BILL TO

ANALYSIS REQUEST

Project Manager: Joseph Guesnier

P.O. #:

Address: 4518 W. Perice Street

Company: SPUR

City: Carlsbad

State: NM Zip: 88220

Attn:

Phone #: 8065077057

Fax #:

Address:

Project #: K1247025

Project Owner:

City:

Project Name: Fole 14 Flow line

State: Zip:

Project Location:

Phone #:

Sampler Name: Travis Casey

Fax #:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H242013

DS-B2 8'

2 DS-C3 8'

3 DS-C4 8'

4 DS-B4 8'

5 DS-C1 8'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE TIME

Chloride (EPA Method4500)

TPH Extended 8015

BTEX (EPA Method 8021B)

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Relinquished By:

Date: 5-14-24

Received By:

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:

Relinquished By: [Signature]

Date: 05/14/24

Received By: [Signature]

REMARKS: joseph.guesnier@terracon.com; travis.casey@terracon.com; austin.worley@terracon.com; michael.adams@terracon.com; beckysue.miller@terracon.com; justin.friend@terracon.com; gus.sanchez@terracon.com

Delivered By: (Circle One)

Observed Temp. °C -52

Sample Condition

CHECKED BY: (initials)

Turnaround Time: Standard

☒ Rush

Bacteria (only) Sample Condition

Corrected Temp. °C

Sampler - UPS - Bus - Other:

Corrected Temp. °C

Cool Intact ☒ Yes ☐ No

Corrected Temp. °C

Thermometer ID #415 #146

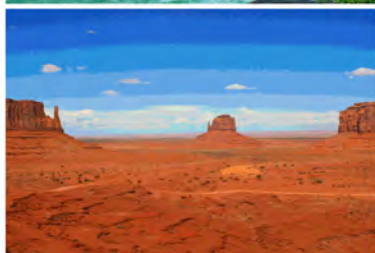
Correction Factor 0.005, 5/14/24

Cool Intact ☐ Yes ☐ No

Observed Temp. °C

Corrected Temp. °C

Report to:
Gio Gomez



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Folk Federal 14 Flowline

Work Order: E408151

Job Number: 21068-0001

Received: 8/19/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/19/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/19/24

Gio Gomez
PO Box 247
Plains, TX 79355-0247



Project Name: Folk Federal 14 Flowline
Workorder: E408151
Date Received: 8/19/2024 8:30:00AM

Gio Gomez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/19/2024 8:30:00AM, under the Project Name: Folk Federal 14 Flowline.

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

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Folk Federal 14 Flowline	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	08/19/24 15:03

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS1	E408151-01A	Soil	08/15/24	08/19/24	Glass Jar, 2 oz.
CS2	E408151-02A	Soil	08/15/24	08/19/24	Glass Jar, 2 oz.
CS3	E408151-03A	Soil	08/15/24	08/19/24	Glass Jar, 2 oz.
CS4	E408151-04A	Soil	08/15/24	08/19/24	Glass Jar, 2 oz.
CS5	E408151-05A	Soil	08/15/24	08/19/24	Glass Jar, 2 oz.
CSW1	E408151-06A	Soil	08/15/24	08/19/24	Glass Jar, 2 oz.
CSW2	E408151-07A	Soil	08/15/24	08/19/24	Glass Jar, 2 oz.
CSW3	E408151-08A	Soil	08/15/24	08/19/24	Glass Jar, 2 oz.
CSW4	E408151-09A	Soil	08/15/24	08/19/24	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Folk Federal 14 Flowline
Project Number: 21068-0001
Project Manager: Gio Gomez

Reported:
8/19/2024 3:03:13PM

CS1

E408151-01

Analyte	Reporting		Dilution	Prepared	Analyzed	Notes
	Result	Limit				
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2434001	
Benzene	ND	0.0250	1	08/19/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/19/24	
Toluene	ND	0.0250	1	08/19/24	08/19/24	
o-Xylene	ND	0.0250	1	08/19/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/19/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	08/19/24	08/19/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.1 %	70-130	08/19/24	08/19/24	
<i>Surrogate: Toluene-d8</i>		97.4 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2434001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/19/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	08/19/24	08/19/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.1 %	70-130	08/19/24	08/19/24	
<i>Surrogate: Toluene-d8</i>		97.4 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434003	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/19/24	08/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/19/24	08/19/24	
<i>Surrogate: n-Nonane</i>		113 %	50-200	08/19/24	08/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2434002	
Chloride	ND	20.0	1	08/19/24	08/19/24	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Folk Federal 14 Flowline
Project Number: 21068-0001
Project Manager: Gio Gomez

Reported:
8/19/2024 3:03:13PM

CS2

E408151-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Benzene	ND	0.0250	1	08/19/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/19/24	
Toluene	ND	0.0250	1	08/19/24	08/19/24	
o-Xylene	ND	0.0250	1	08/19/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		99.3 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		98.5 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		99.3 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		98.5 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434003
Diesel Range Organics (C10-C28)	ND	25.0	1	08/19/24	08/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/19/24	08/19/24	
Surrogate: n-Nonane		93.6 %	50-200	08/19/24	08/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2434002
Chloride	ND	20.0	1	08/19/24	08/19/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Folk Federal 14 Flowline	Reported: 8/19/2024 3:03:13PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CS3

E408151-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Benzene	ND	0.0250	1	08/19/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/19/24	
Toluene	ND	0.0250	1	08/19/24	08/19/24	
o-Xylene	ND	0.0250	1	08/19/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		117 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		90.7 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		107 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		117 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		90.7 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		107 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434003
Diesel Range Organics (C10-C28)	ND	25.0	1	08/19/24	08/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/19/24	08/19/24	
Surrogate: n-Nonane		102 %	50-200	08/19/24	08/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2434002
Chloride	ND	20.0	1	08/19/24	08/19/24	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Folk Federal 14 Flowline
Project Number: 21068-0001
Project Manager: Gio Gomez

Reported:
8/19/2024 3:03:13PM

CS4

E408151-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Benzene	ND	0.0250	1	08/19/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/19/24	
Toluene	ND	0.0250	1	08/19/24	08/19/24	
o-Xylene	ND	0.0250	1	08/19/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		113 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		89.6 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		108 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		113 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		89.6 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		108 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434003
Diesel Range Organics (C10-C28)	ND	25.0	1	08/19/24	08/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/19/24	08/19/24	
Surrogate: n-Nonane		105 %	50-200	08/19/24	08/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2434002
Chloride	ND	20.0	1	08/19/24	08/19/24	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Folk Federal 14 Flowline
Project Number: 21068-0001
Project Manager: Gio Gomez

Reported:
8/19/2024 3:03:13PM

CS5

E408151-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Benzene	ND	0.0250	1	08/19/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/19/24	
Toluene	ND	0.0250	1	08/19/24	08/19/24	
o-Xylene	ND	0.0250	1	08/19/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		116 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		92.8 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		108 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		116 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		92.8 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		108 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434003
Diesel Range Organics (C10-C28)	ND	25.0	1	08/19/24	08/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/19/24	08/19/24	
Surrogate: n-Nonane		79.2 %	50-200	08/19/24	08/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2434002
Chloride	ND	20.0	1	08/19/24	08/19/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Folk Federal 14 Flowline	Reported: 8/19/2024 3:03:13PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW1

E408151-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Benzene	ND	0.0250	1	08/19/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/19/24	
Toluene	ND	0.0250	1	08/19/24	08/19/24	
o-Xylene	ND	0.0250	1	08/19/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		113 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		89.1 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		108 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		113 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		89.1 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		108 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434003
Diesel Range Organics (C10-C28)	ND	25.0	1	08/19/24	08/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/19/24	08/19/24	
Surrogate: n-Nonane		95.8 %	50-200	08/19/24	08/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2434002
Chloride	ND	20.0	1	08/19/24	08/19/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Folk Federal 14 Flowline	Reported: 8/19/2024 3:03:13PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW2

E408151-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Benzene	ND	0.0250	1	08/19/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/19/24	
Toluene	ND	0.0250	1	08/19/24	08/19/24	
o-Xylene	ND	0.0250	1	08/19/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		112 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		92.3 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		109 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		112 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		92.3 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		109 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434003
Diesel Range Organics (C10-C28)	ND	25.0	1	08/19/24	08/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/19/24	08/19/24	
Surrogate: n-Nonane		104 %	50-200	08/19/24	08/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2434002
Chloride	ND	20.0	1	08/19/24	08/19/24	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Folk Federal 14 Flowline
Project Number: 21068-0001
Project Manager: Gio Gomez

Reported:
8/19/2024 3:03:13PM

CSW3

E408151-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Benzene	ND	0.0250	1	08/19/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/19/24	
Toluene	ND	0.0250	1	08/19/24	08/19/24	
o-Xylene	ND	0.0250	1	08/19/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		115 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		91.2 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		107 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		115 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		91.2 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		107 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434003
Diesel Range Organics (C10-C28)	ND	25.0	1	08/19/24	08/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/19/24	08/19/24	
Surrogate: n-Nonane		90.6 %	50-200	08/19/24	08/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2434002
Chloride	ND	20.0	1	08/19/24	08/19/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Folk Federal 14 Flowline	Reported: 8/19/2024 3:03:13PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW4

E408151-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Benzene	ND	0.0250	1	08/19/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/19/24	
Toluene	ND	0.0250	1	08/19/24	08/19/24	
o-Xylene	ND	0.0250	1	08/19/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		115 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		92.7 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		108 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		115 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		92.7 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		108 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434003
Diesel Range Organics (C10-C28)	ND	25.0	1	08/19/24	08/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/19/24	08/19/24	
Surrogate: n-Nonane		94.8 %	50-200	08/19/24	08/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2434002
Chloride	ND	20.0	1	08/19/24	08/19/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Folk Federal 14 Flowline	Reported: 8/19/2024 3:03:13PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434001-BLK1) Prepared: 08/19/24 Analyzed: 08/19/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		95.0	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.4	70-130			

LCS (2434001-BS1) Prepared: 08/19/24 Analyzed: 08/19/24

Benzene	2.33	0.0250	2.50		93.4	70-130			
Ethylbenzene	2.32	0.0250	2.50		92.9	70-130			
Toluene	2.18	0.0250	2.50		87.1	70-130			
o-Xylene	2.26	0.0250	2.50		90.6	70-130			
p,m-Xylene	4.54	0.0500	5.00		90.9	70-130			
Total Xylenes	6.81	0.0250	7.50		90.8	70-130			
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.490		0.500		98.0	70-130			

LCS Dup (2434001-BSD1) Prepared: 08/19/24 Analyzed: 08/19/24

Benzene	2.43	0.0250	2.50		97.4	70-130	4.19	23	
Ethylbenzene	2.46	0.0250	2.50		98.4	70-130	5.81	27	
Toluene	2.32	0.0250	2.50		92.6	70-130	6.17	24	
o-Xylene	2.43	0.0250	2.50		97.2	70-130	7.07	27	
p,m-Xylene	4.84	0.0500	5.00		96.9	70-130	6.38	27	
Total Xylenes	7.27	0.0250	7.50		97.0	70-130	6.61	27	
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.7	70-130			
Surrogate: Toluene-d8	0.490		0.500		97.9	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Folk Federal 14 Flowline	Reported: 8/19/2024 3:03:13PM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434001-BLK1) Prepared: 08/19/24 Analyzed: 08/19/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		95.0	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.4	70-130			

LCS (2434001-BS2) Prepared: 08/19/24 Analyzed: 08/19/24

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0		85.7	70-130			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.2	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.8	70-130			

LCS Dup (2434001-BSD2) Prepared: 08/19/24 Analyzed: 08/19/24

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0		95.7	70-130	11.1	20	
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Folk Federal 14 Flowline	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	8/19/2024 3:03:13PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434003-BLK1) Prepared: 08/19/24 Analyzed: 08/19/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.3		50.0		107	50-200			

LCS (2434003-BS1) Prepared: 08/19/24 Analyzed: 08/19/24

Diesel Range Organics (C10-C28)	195	25.0	250		78.1	38-132			
Surrogate: n-Nonane	48.4		50.0		96.8	50-200			

Matrix Spike (2434003-MS1) Source: E408151-01 Prepared: 08/19/24 Analyzed: 08/19/24

Diesel Range Organics (C10-C28)	187	25.0	250	ND	74.7	38-132			
Surrogate: n-Nonane	46.5		50.0		93.0	50-200			

Matrix Spike Dup (2434003-MSD1) Source: E408151-01 Prepared: 08/19/24 Analyzed: 08/19/24

Diesel Range Organics (C10-C28)	194	25.0	250	ND	77.7	38-132	4.01	20	
Surrogate: n-Nonane	50.7		50.0		101	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Folk Federal 14 Flowline	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	8/19/2024 3:03:13PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2434002-BLK1)					Prepared: 08/19/24 Analyzed: 08/19/24				
Chloride	ND	20.0							
LCS (2434002-BS1)					Prepared: 08/19/24 Analyzed: 08/19/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2434002-MS1)					Source: E408151-04		Prepared: 08/19/24 Analyzed: 08/19/24		
Chloride	253	20.0	250	ND	101	80-120			
Matrix Spike Dup (2434002-MSD1)					Source: E408151-04		Prepared: 08/19/24 Analyzed: 08/19/24		
Chloride	259	20.0	250	ND	104	80-120	2.41	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:	Folk Federal 14 Flowline	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	08/19/24 15:03

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

Project Information

Chain of Custody

Page 1 of 1

Client: Pima Environmental Services Project: <u>Folk Federal 14 Flowline</u> Project Manager: <u>Gio Gomez</u> Address: <u>5614 N. Lovington Hwy.</u> City, State, Zip: <u>Hobbs, NM, 88240</u> Phone: <u>806-782-1151</u> Email: <u>gio@pimaoil.com</u> Report due by:					Bill To Attention: <u>Spor Energy</u> Address: City, State, Zip Phone: Email: Pima Project # <u>6-324</u>		Lab Use Only Lab WO# <u>E408151</u> Job Number <u>21008-0001</u> Analysis and Method DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM BGDOC TX		TAT 1D 2D 3D Standard <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		EPA Program CWA SDWA RCRA State NM CO UT AZ TX <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks						
4:45	8/15	S		CS1	1							
4:56				CS2	2							
4:59				CS3	3							
5:10				CS4	4							
5:17				CS5	5							
5:20				CSW1	6							
5:26				CSW2	7							
5:31				CSW3	8							
5:39				CSW4	9							
Additional Instructions: <u>Billing # AFE: 524034</u>												
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.						
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only				
<u>Vernice Azarue</u>		<u>7-16-24</u>	<u>1230</u>	<u>[Signature]</u>		<u>7-16-24</u>	<u>1230</u>	Received on ice: <u>Y</u> / N				
<u>[Signature]</u>		<u>8-16-24</u>	<u>1545</u>	<u>[Signature]</u>		<u>8-16-24</u>	<u>1745</u>	T1 T2 T3				
<u>[Signature]</u>		<u>8-16-24</u>	<u>2400</u>	<u>[Signature]</u>		<u>8/19/24</u>	<u>8:30</u>	AVG Temp °C <u>4</u>				
Sample Matrix: S - Soil, sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA						
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.												

Envirotech Analytical Laboratory

Printed: 8/19/2024 11:31:12AM

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:	08/19/24 08:30	Work Order ID:	E408151
Phone:	(575) 631-6977	Date Logged In:	08/16/24 15:47	Logged In By:	Noe Soto
Email:	gio@pimaoil.com	Due Date:	08/19/24 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Sampled by name and No. of containers is missing on COC by client.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

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

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

QUESTIONS

Action 378409

QUESTIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 378409
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2410636699
Incident Name	NAPP2410636699 FOLK FEDERAL #14 FLOW LINE @ 30-015-38171
Incident Type	Release Other
Incident Status	Reclamation Report Received
Incident Well	[30-015-38171] FOLK FEDERAL #014

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Folk Federal #14 Flow Line
Date Release Discovered	04/02/2024
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Corrosion Flow Line - Production Crude Oil Released: 5 BBL Recovered: 3 BBL Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 5 BBL Recovered: 3 BBL Lost: 2 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	POLY LINE RUPTURED RELEASING OIL& PW INTO THE PASTURE

District I

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

District II

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

District III

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

District IV

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

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

QUESTIONS, Page 2

Action 378409

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	378409
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

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

Initial Response

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

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

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 04/15/2024
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QUESTIONS, Page 3

Action 378409

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	378409
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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

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

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

Chloride	(EPA 300.0 or SM4500 Cl B)	42000
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	1546
GRO+DRO	(EPA SW-846 Method 8015M)	1220
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	08/05/2024
On what date will (or did) the final sampling or liner inspection occur	08/15/2024
On what date will (or was) the remediation complete(d)	08/19/2024
What is the estimated surface area (in square feet) that will be reclaimed	1023
What is the estimated volume (in cubic yards) that will be reclaimed	357
What is the estimated surface area (in square feet) that will be remediated	1023
What is the estimated volume (in cubic yards) that will be remediated	357

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

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

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QUESTIONS, Page 4

Action 378409

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	378409
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 08/27/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 378409

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 378409
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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QUESTIONS, Page 6

Action 378409

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	378409
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	373569
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/15/2024
What was the (estimated) number of samples that were to be gathered	9
What was the sampling surface area in square feet	1023

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1023
What was the total volume (cubic yards) remediated	357
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	1023
What was the total volume (in cubic yards) reclaimed	357
Summarize any additional remediation activities not included by answers (above)	N/A

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 08/27/2024
--	--

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QUESTIONS, Page 7

Action 378409

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	378409
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	1023
What was the total volume of replacement material (in cubic yards) for this site	357
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	08/22/2024
Summarize any additional reclamation activities not included by answers (above)	SEEDING WAS COMPLETED WITH A BLM APPROVED SEEDING MIXTURE
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 08/27/2024

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QUESTIONS, Page 8

Action 378409

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 378409
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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CONDITIONS

Action 378409

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 378409
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2410636699 FOLK FEDERAL #14 FLOW LINE, thank you. This Remediation Closure Report is approved. Be advised that future reclamation reports will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical.	9/26/2024