



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

March 13<sup>th</sup>, 2022

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**  
**White Star Federal Tank Battery**  
**API No. N/A**  
**GPS: Latitude 32.806527 Longitude -104.08915**  
**UL H, Sec. 29, T17S, R29E**  
**Eddy County, NM**  
**NMOCD Ref. No. NAPP2119558081**

Pima Environmental Services, LLC (Pima) has been contracted by Spur Energy Partners, LLC. (Spur) to perform a spill assessment, remediation, and submit this closure report for a produced water release that occurred at the White Star Federal Tank Battery (White Star). The initial C-141 was submitted on September 11<sup>th</sup>, 2020 (Appendix C). This incident was assigned Incident ID NRM2025560181, by the New Mexico Oil Conservation Division (NMOCD).

### Site Characterization

The White Star is located approximately six (6) miles west of Loco Hills, NM. This spill site is in Unit H, Section 29, Township 17S, Range 29E, Latitude 32.806527, Longitude -104.08915, Eddy County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is made up of Eolian and piedmont deposits (Holocene to middle Pleistocene). Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits. The soil in this area is made up of Parajito loamy fine sand, 0 to 3 percent slopes, eroded according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well drained. There is a low potential for karst geology to be present around the White Star (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 76 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 210 feet BGS. The closest waterway is a playa located approximately 5.4 miles to the northwest of this location. See Appendix A for referenced water surveys.

**Table 1 NMAC and Closure Criteria 19.15.29**

Depth to Groundwater (Appendix A)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
<50' (Lack of GW data)	600 mg/kg	100 mg/kg	1,000 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

**NAPP2119558081:** On June 17<sup>th</sup>, 2021, a poly flowline fuse split at a transition causing the release into the adjacent pasture. The released fluids, calculated to be approximately 60 barrels (bbls) of produced water. A vacuum truck was able to recover approximately 50 bbls of total fluid from this release.

## Site Assessment and Soil Sampling Results

On July 30<sup>th</sup>, 2021, Pima Environmental mobilized personnel to the site to assess the area. We sampled the affected areas in the pasture. Laboratory results of this sampling event can be found in the following data table. A Site map can be found in Figure 4.

7-30-21 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC -- Depth to GW <50'								
SPUR ENERGY - WHITE STAR FEDERAL BATTERY								
Date 7/30/2021		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
S-1	0-6"	ND	ND	ND	4950	1710	6660	48
	2'	ND	ND	ND	286	144	430	656
	4'	ND	ND	ND	2080	713	2793	272
S-2	0-6"	ND	ND	ND	3350	1040	4390	3040
	3'	ND	ND	ND	96.2	50.2	146.4	144
	4'	ND	ND	ND	ND	ND	0	16
S-3	0-6"	ND	ND	ND	12.3	ND	12.3	144
	3'	ND	ND	ND	65.1	20.4	85.5	4560
	4'	ND	ND	ND	ND	ND	0	ND
S-4	0-6"	ND	ND	ND	ND	ND	0	32
	2'	ND	ND	ND	ND	ND	0	9730
	3'	ND	ND	ND	ND	ND	0	112
S-5	0-6"	ND	ND	ND	36.1	14.7	50.8	176
	2'	ND	ND	ND	1010	397	1407	2440
	3'	ND	ND	ND	ND	ND	0	560
S-6	0-6"	ND	ND	ND	68.7	37.1	105.8	2480
	2'	ND	ND	ND	17.6	ND	17.6	2560
	3'	ND	ND	ND	ND	ND	0	32
S-7	0-6"	ND	ND	ND	39.4	15.7	55.1	16
	3'	ND	ND	ND	3290	1300	4590	2280
	4'	ND	ND	ND	ND	ND	0	32
SW-1	0-6"	ND	ND	ND	ND	ND	0	16
SW-2	0-6"	ND	ND	ND	ND	ND	0	ND
SW-3	0-6"	ND	ND	ND	ND	ND	0	ND
SW-4	0-6"	ND	ND	ND	ND	ND	0	ND
SW-5	0-6"	ND	ND	ND	ND	ND	0	ND
SW-6	0-6"	ND	ND	ND	ND	ND	0	ND
SW-7	0-6"	ND	ND	ND	ND	ND	0	ND
BG-1	0-6"	ND	ND	ND	ND	ND	0	ND
BG-2	0-6"	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

## Remediation Activities

On December 13<sup>th</sup>, 2021, Pima returned to the site to remediate the contaminated areas. We excavated the areas to various depths and verified that the bottoms and sidewalls were free of contamination. A Remediation map can be found in Figure 5.

On December 20<sup>th</sup>, 2021, after sending a 48-hour notification, Pima returned to the site to collect confirmation samples of the excavated areas. The results of this sampling event can be found in the following data table. A Confirmation Sample Map can be found in Figure 6.

## 12-20-21 Confirmation Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC -- Depth to GW <50'								
SPUR ENERGY - WHITE STAR FEDERAL BATTERY								
Date 12/20/2021		NM Approved Laboratory Results						
Sample ID	Depth (BG)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
B-1	4'	ND	ND	ND	ND	ND	0	32
B-2	4'	ND	ND	ND	ND	ND	0	64
B-3	4'	ND	ND	ND	ND	ND	0	64
B-4	4'	ND	ND	ND	ND	ND	0	32
B-5	4'	ND	ND	ND	ND	ND	0	80
B-6	4'	ND	ND	ND	70.5	31.1	101.6	544
B-7	4'	ND	ND	ND	ND	ND	0	208
B-8	4'	ND	ND	ND	ND	ND	0	80
B-9	3'	ND	ND	ND	ND	ND	0	64
B-10	3'	ND	ND	ND	ND	ND	0	96
B-11	3'	ND	ND	ND	ND	ND	0	16
B-12	3'	ND	ND	ND	ND	ND	0	32
B-13	3'	ND	ND	ND	ND	ND	0	16
B-14	3'	ND	ND	ND	ND	ND	0	112
B-15	2'	ND	ND	ND	ND	ND	0	368
B-16	3'	ND	ND	ND	ND	ND	0	48
B-17	3'	ND	ND	ND	ND	ND	0	32
B-18	3'	ND	ND	ND	ND	ND	0	192
B-19	2'	ND	ND	ND	ND	ND	0	16
B-20	2'	ND	ND	ND	ND	ND	0	32
B-21	2'	ND	ND	ND	ND	ND	0	32
B-22	2'	ND	ND	ND	ND	ND	0	32
B-23	2'	ND	ND	ND	ND	ND	0	ND
B-24	2'	ND	ND	ND	ND	ND	0	16
B-25	2'	ND	ND	ND	ND	ND	0	ND
B-26	2'	ND	ND	ND	ND	ND	0	16
B-27	2'	ND	ND	ND	ND	ND	0	16
B-28	2'	ND	ND	ND	ND	ND	0	ND
B-29	2'	ND	ND	ND	ND	ND	0	32
B-30	2'	ND	ND	ND	ND	ND	0	16
B-31	2'	ND	ND	ND	ND	ND	0	16
B-32	2'	ND	ND	ND	ND	ND	0	64
B-33	2'	ND	ND	ND	ND	ND	0	32
B-34	2'	ND	ND	ND	ND	ND	0	208
B-35	2'	ND	ND	ND	ND	ND	0	32
B-36	2'	ND	ND	ND	ND	ND	0	144
B-37	2'	ND	ND	ND	ND	ND	0	112
B-38	3'	ND	ND	ND	ND	ND	0	240
B-39	3'	ND	ND	ND	61	ND	61	320
B-40	3'	ND	ND	ND	30.3	ND	30.3	144
B-41	3'	ND	ND	ND	ND	ND	0	48
B-42	3'	ND	ND	ND	334	72.9	406.9	240
SW-1	4'	ND	ND	ND	ND	ND	0	48
SW-2	3'	ND	ND	ND	ND	ND	0	32
SW-3	2'	ND	ND	ND	ND	ND	0	16
SW-4	2'	ND	ND	ND	ND	ND	0	ND
SW-5	3'	ND	ND	ND	ND	ND	0	ND
SW-6	2'	ND	ND	ND	ND	ND	0	ND
SW-7	4'	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

On December 23<sup>rd</sup>, 2021, Pima returned to the site to further excavate the areas around B-6 and B-42. We excavated another 1' bgs in each area then collected confirmation samples to verify the contamination had been removed. The results from this sampling event can be found in the following table. The contaminated soil was hauled to an approved, lined disposal facility and clean, like material was brought back to backfill the excavation. Photographic documentation can be found in Appendix D.

## 12-23-21 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC -- Depth to GW <50'								
SPUR ENERGY - WHITE STAR FEDERAL BATTERY								
Date 12/23/2021		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	CI mg/kg
B-6	5'	--	--	ND	ND	ND	0	--
B-42	4'	--	--	ND	ND	ND	0	--

ND- Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

Based on the sample results, the bottom and sidewalls were below NMOCD Closure Criteria 19.15.29 NMAC. The entire area was machine compacted and contoured to match the surrounding terrain.

#### **Closure Request**

After careful review, Pima requests that this incident, NRM2025560181 be closed. Spur has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

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

Respectfully,

*Gio Gomez*

Gio Gomez  
Environmental Project Manager  
Pima Environmental Services, LLC

#### **Attachments**

Figures:

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

Appendices:

- Appendix A – Referenced Water Surveys
- Appendix B – Soil Survey and Geological Data
- Appendix C – C-141 Form & 48-Hour Notification
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports



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**Figures:**

1 - Location Map

2 - Topo Map

3 - Karst Map

4 - Site Map

5 - Remediation Map

5 – Confirmation Sample Map



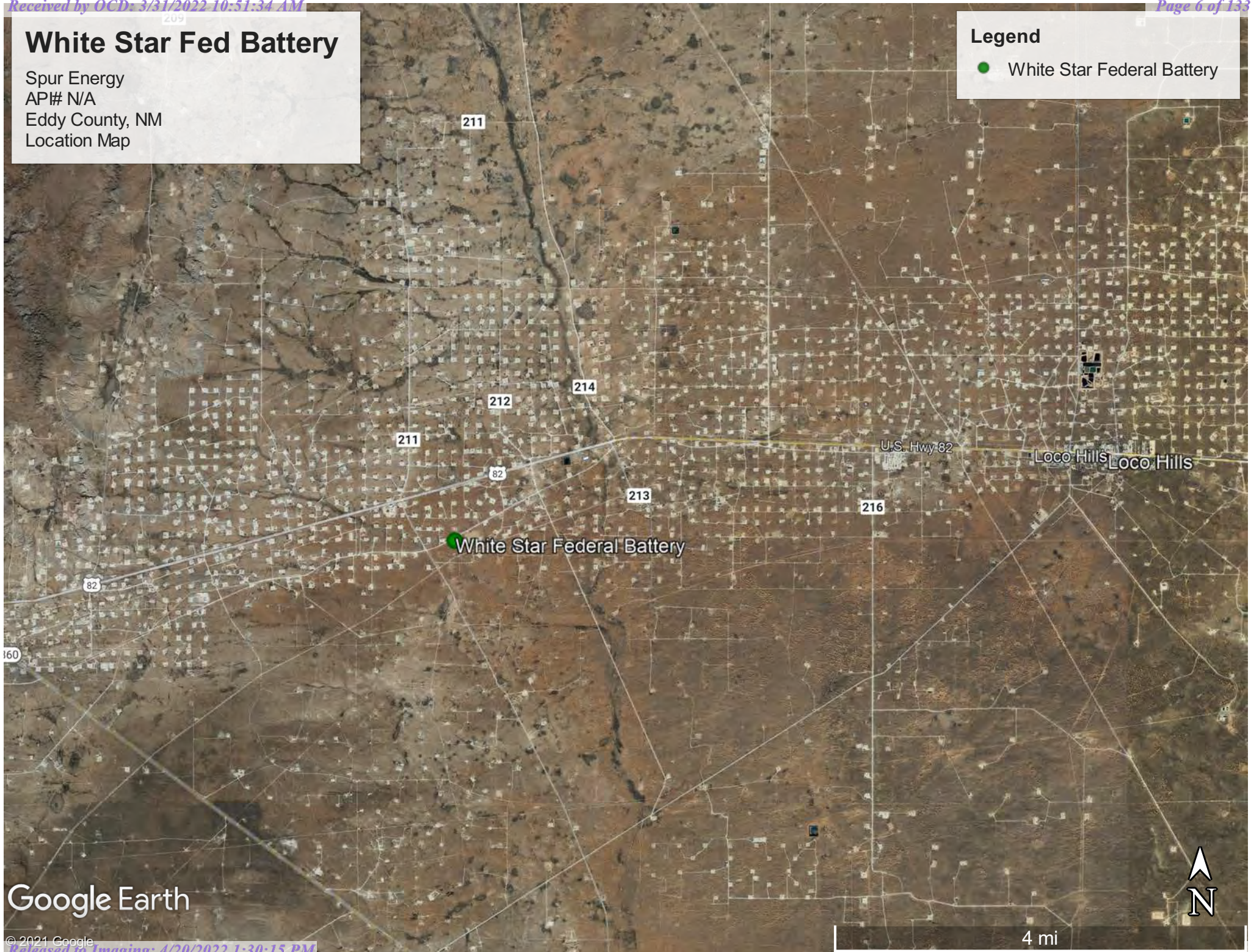
209

# White Star Fed Battery

Spur Energy  
AP# N/A  
Eddy County, NM  
Location Map

## Legend

● White Star Federal Battery

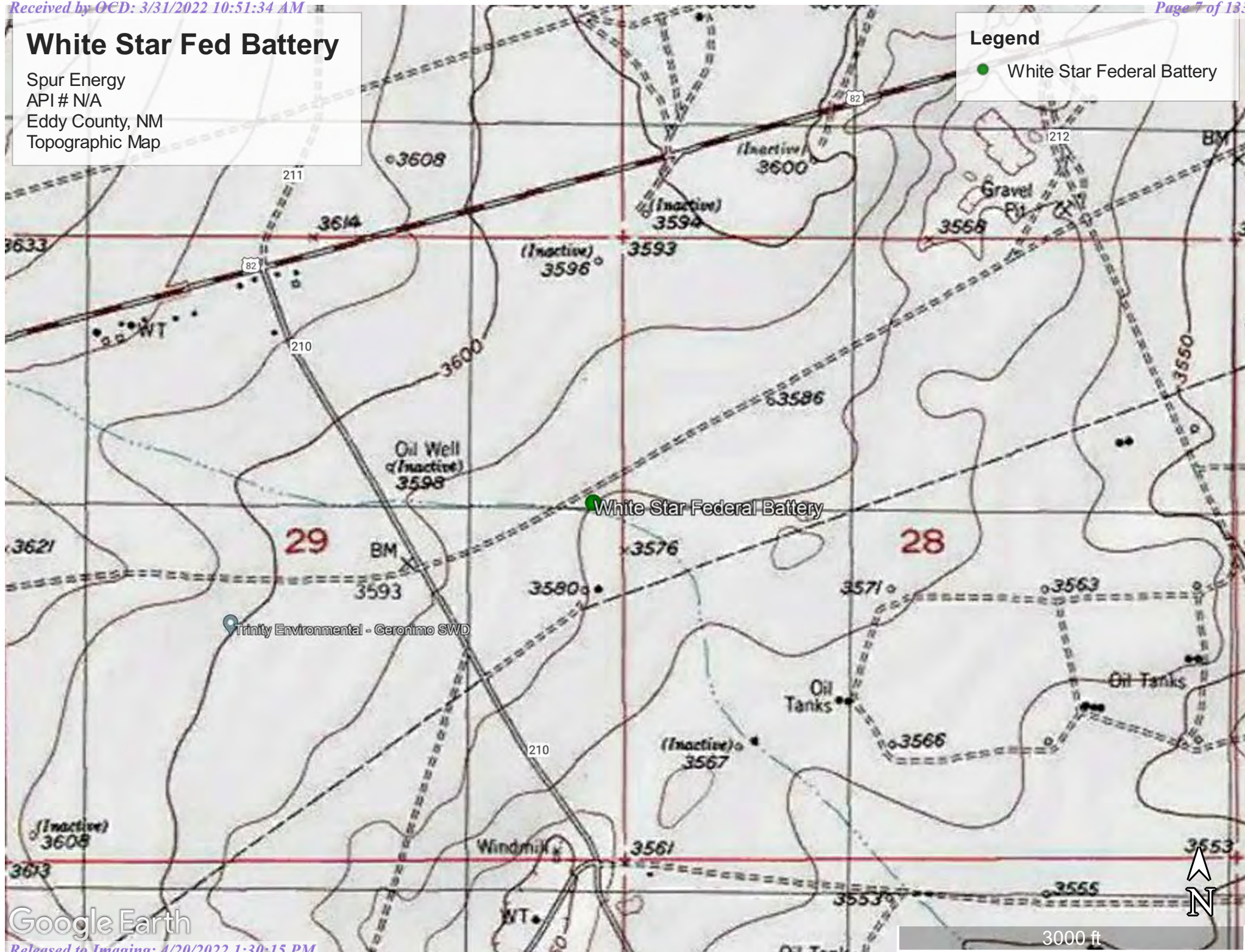


Google Earth



Spur Energy  
API # N/A  
Eddy County, NM  
Topographic Map

- White Star Federal Battery

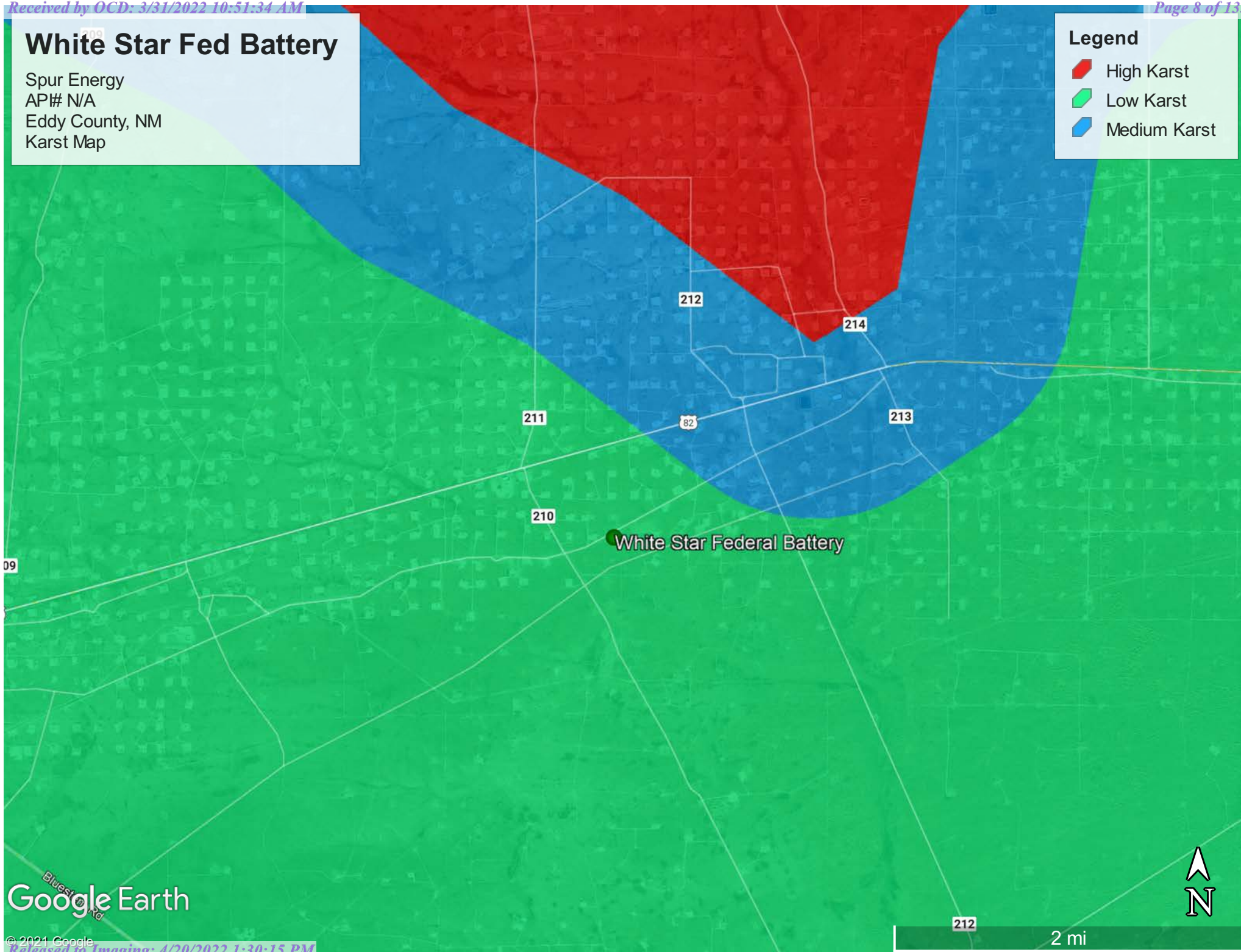




# White Star Fed Battery

Spur Energy  
AP# N/A  
Eddy County, NM  
Karst Map

- Legend**
- High Karst
  - Low Karst
  - Medium Karst



Google Earth



# White Star Federal

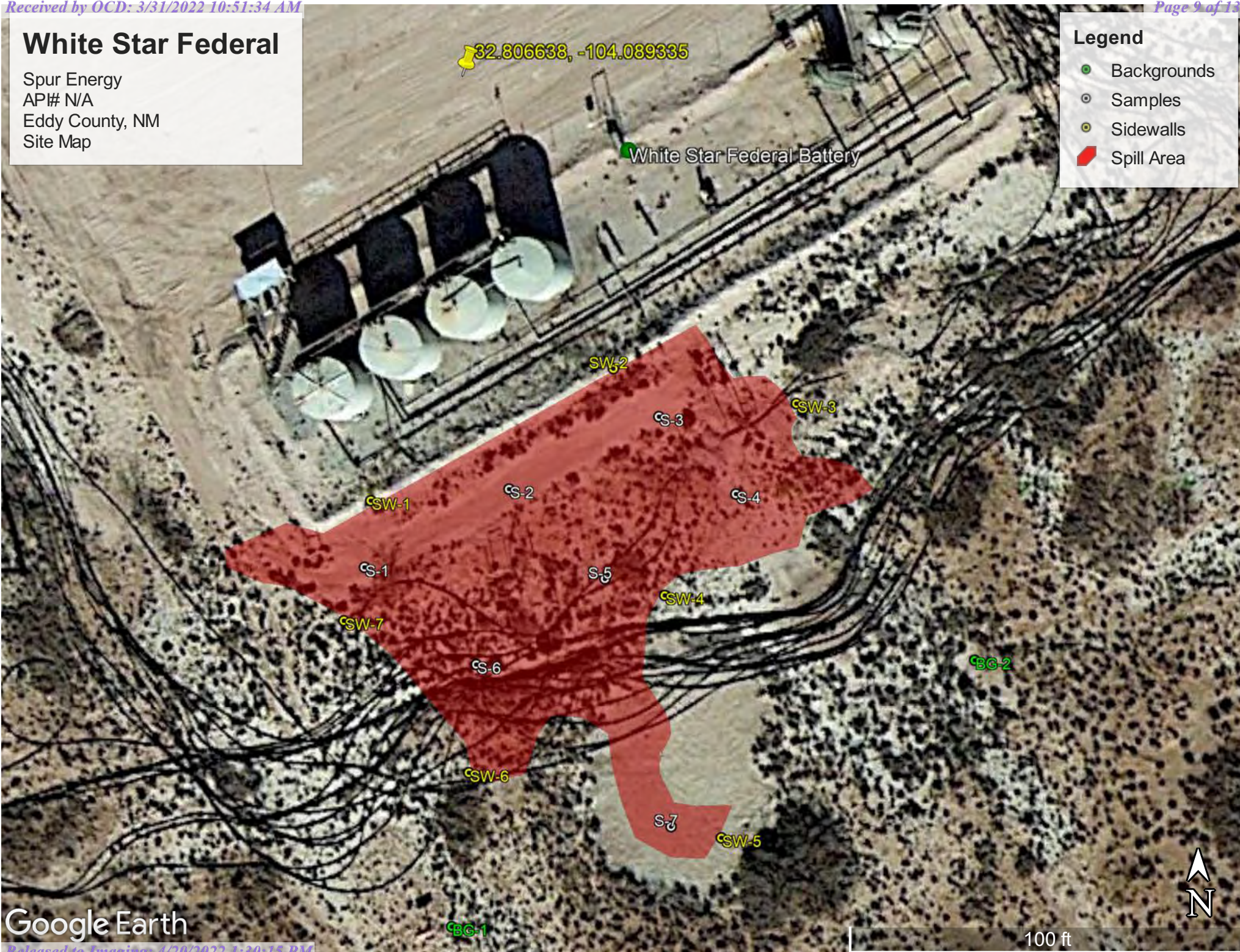
Spur Energy  
AP# N/A  
Eddy County, NM  
Site Map

32.806638, -104.089335

White Star Federal Battery

## Legend

- Backgrounds
- Samples
- Sidewalls
- Spill Area



Google Earth

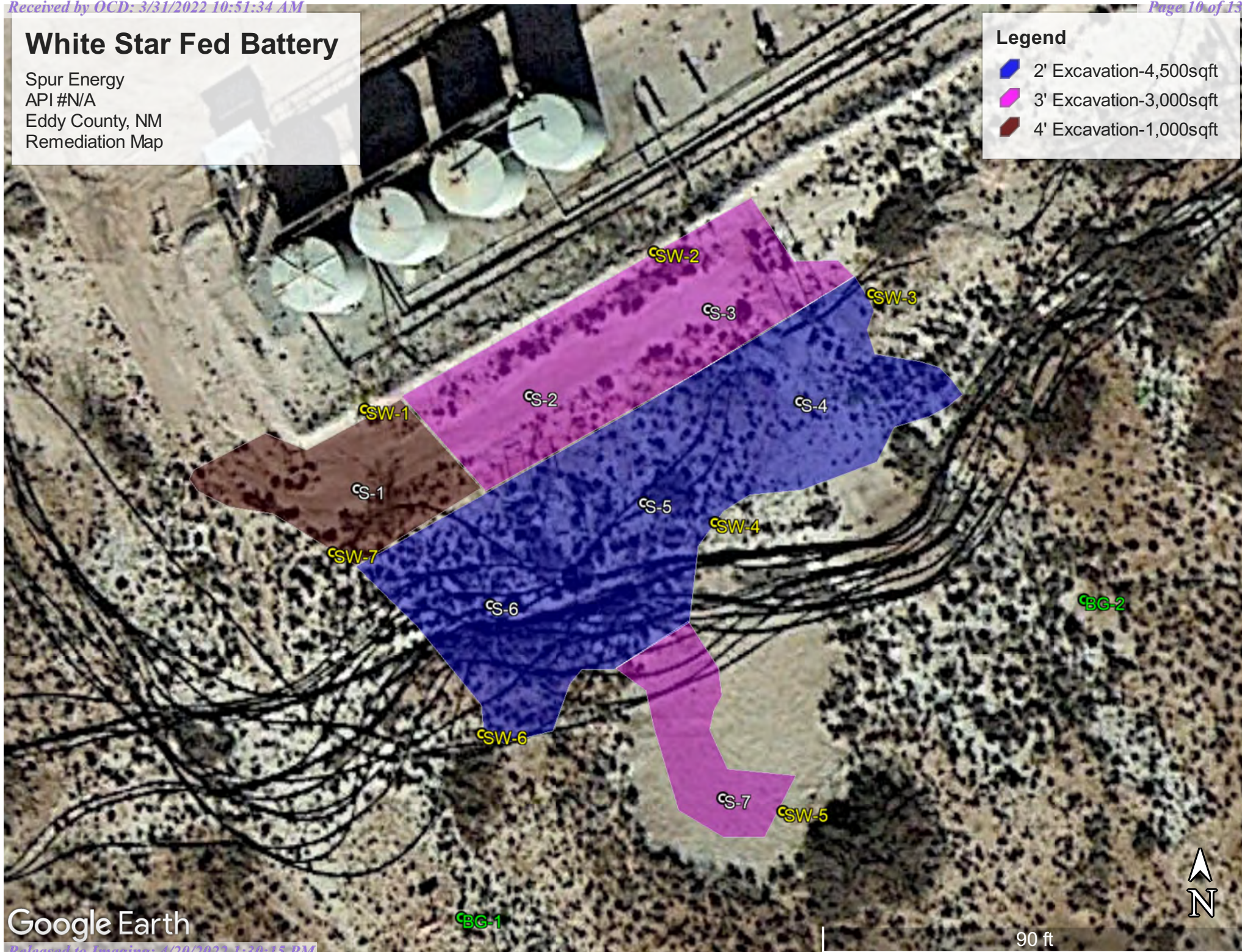


# White Star Fed Battery

Spur Energy  
API #N/A  
Eddy County, NM  
Remediation Map

## Legend

- 2' Excavation-4,500sqft
- 3' Excavation-3,000sqft
- 4' Excavation-1,000sqft






Google Earth

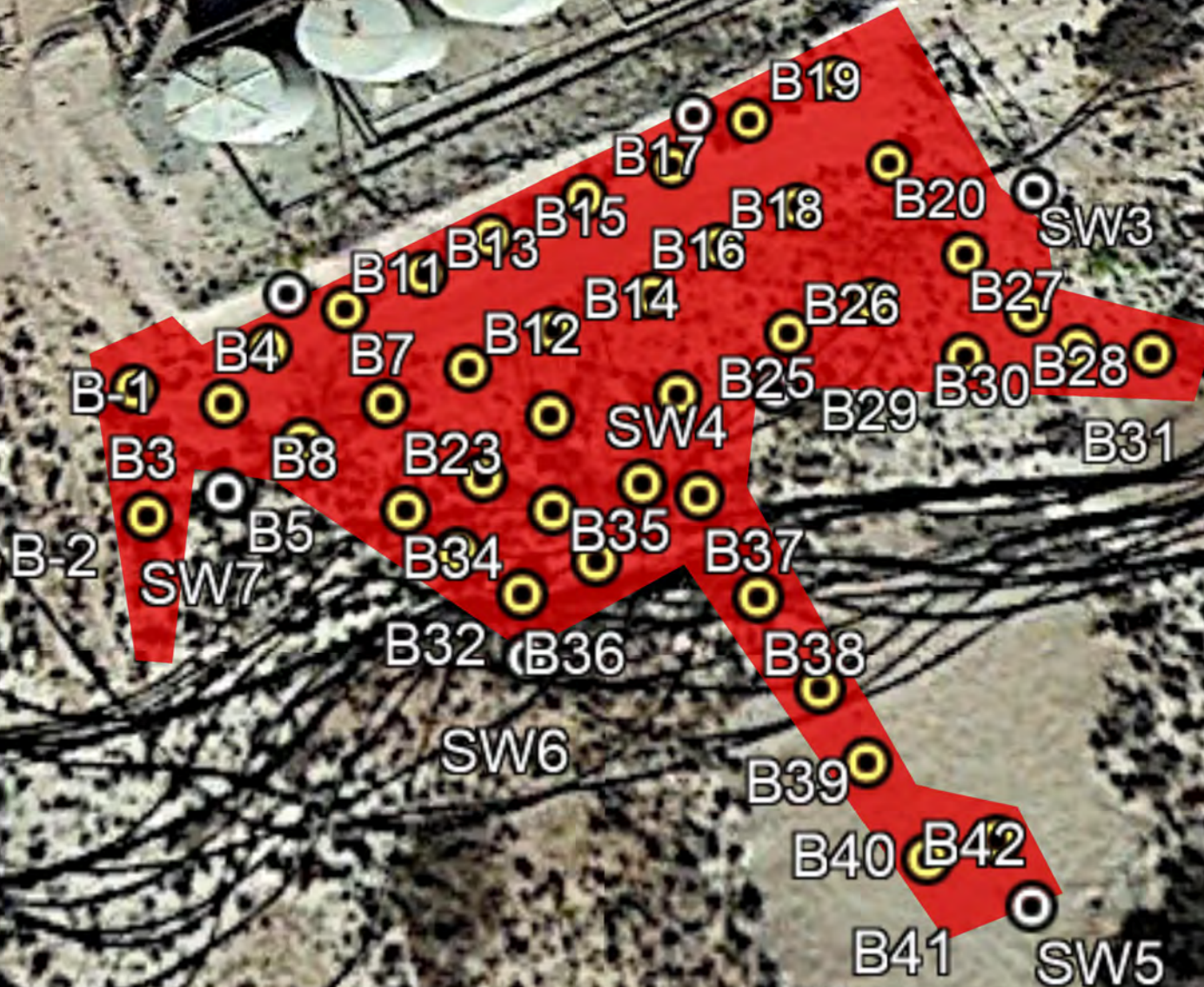


# White Star Federal

Spur Energy  
AP# N/A  
Eddy, County, NM  
Confirmation Sample Map

## Legend

-  Excavated Area
-  Confirmation Samples
-  White Star Federal







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## **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
<a href="#">RA 11807 POD1</a>		RA	ED	1	2	3	22	17S	29E	587360	3631585	2507	131	76	55
<a href="#">RA 12307 POD1</a>		RA	ED	4	2	2	14	17S	28E	580495	3633981	6070	140	58	82
<a href="#">RA 11857 POD1</a>		RA	ED	1	1	2	05	18S	26E	577784	3625988	8587	235	95	140
<a href="#">CP 01618 POD1</a>		CP	ED	3	4	2	29	18S	29E	585120	3620554	9663	240	180	60
<a href="#">RA 11914 POD1</a>		RA	ED	2	4	2	20	17S	30E	594801	3632002	9708	85	80	5
<a href="#">CP 00863</a>		CP	ED	1	4	2	27	18S	29E	588341	3620768*	9939	320		
<a href="#">CP 00582 POD1</a>		CP	ED				24	18S	29E	591048	3622096*	9974	150		

Average Depth to Water: **97 feet**

Minimum Depth: **58 feet**

Maximum Depth: **180 feet**

**Record Count:** 7

### UTM NAD83 Radius Search (in meters):

**Easting (X):** 585257.97

**Northing (Y):** 3630217.66

**Radius:** 10000

\*UTM location was derived from PLSS - see Help

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

8/9/21 9:10 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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## National Water Information System: Web Interface

USGS Water Resources

Data Category:


Groundwater

Geographic Area:

United States

GO

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- [Full News](#) 

Groundwater levels for the Nation

\* IMPORTANT: [Next Generation Station Page](#)

### Search Results -- 1 sites found

site\_no list =

- 324753104052101

Minimum number of levels = 1

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

### USGS 324753104052101 17S.29E.29.44433

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°47'53", Longitude 104°05'21" NAD27

Land-surface elevation 3,552 feet above NAVD88

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

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

#### Output formats

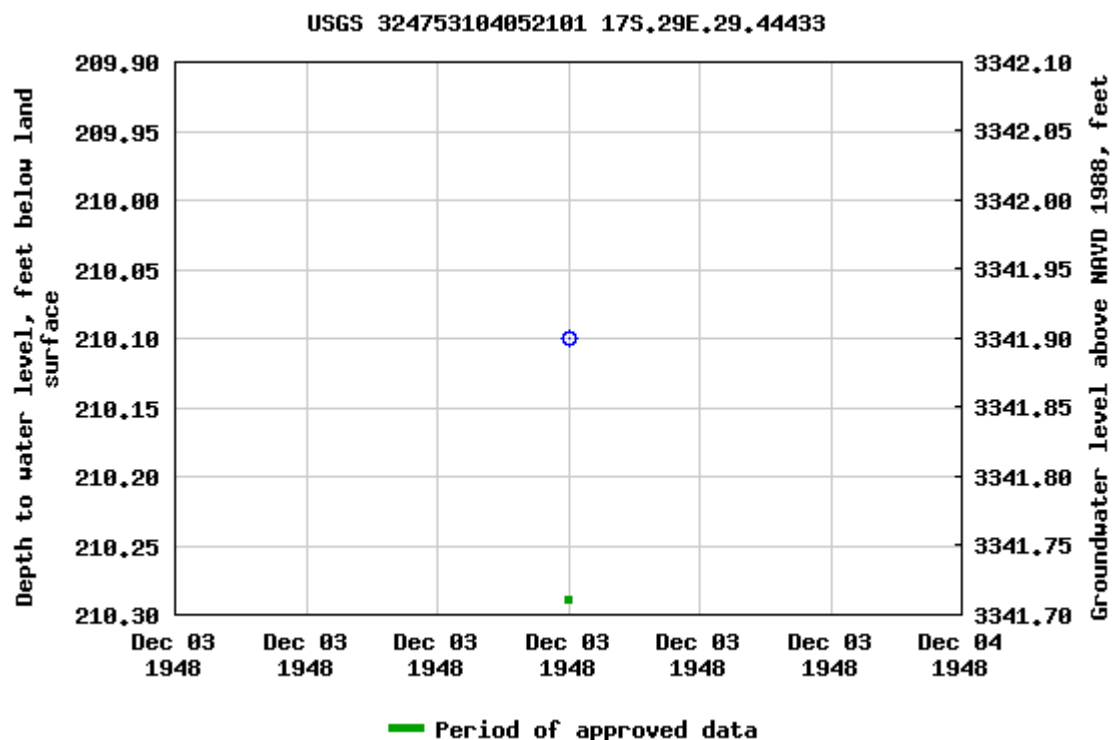
[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)





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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](#)

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0.58 0.5 nadww02





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## National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

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- [Full News](#) 

Groundwater levels for the Nation

\* IMPORTANT: [Next Generation Station Page](#)

## Search Results -- 1 sites found

site\_no list =

- 324746104025001

Minimum number of levels = 1

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

## USGS 324746104025001 17S.29E.35.121443

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°47'46", Longitude 104°02'50" NAD27

Land-surface elevation 3,553 feet above NAVD88

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

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

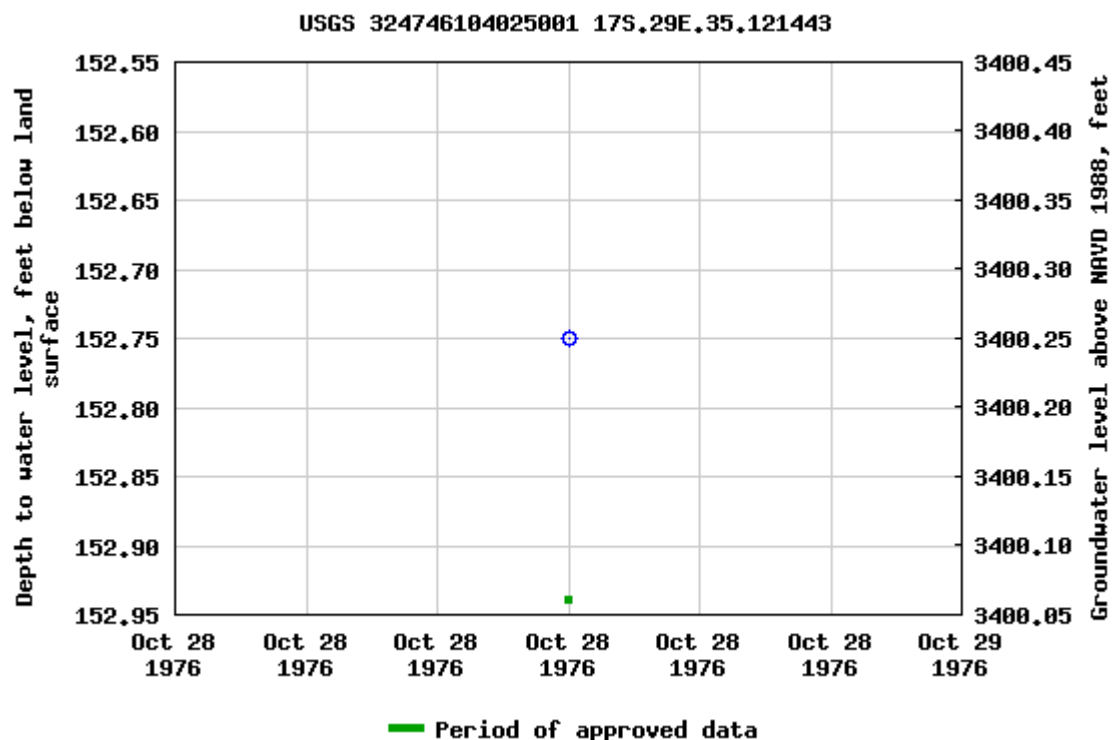
### Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



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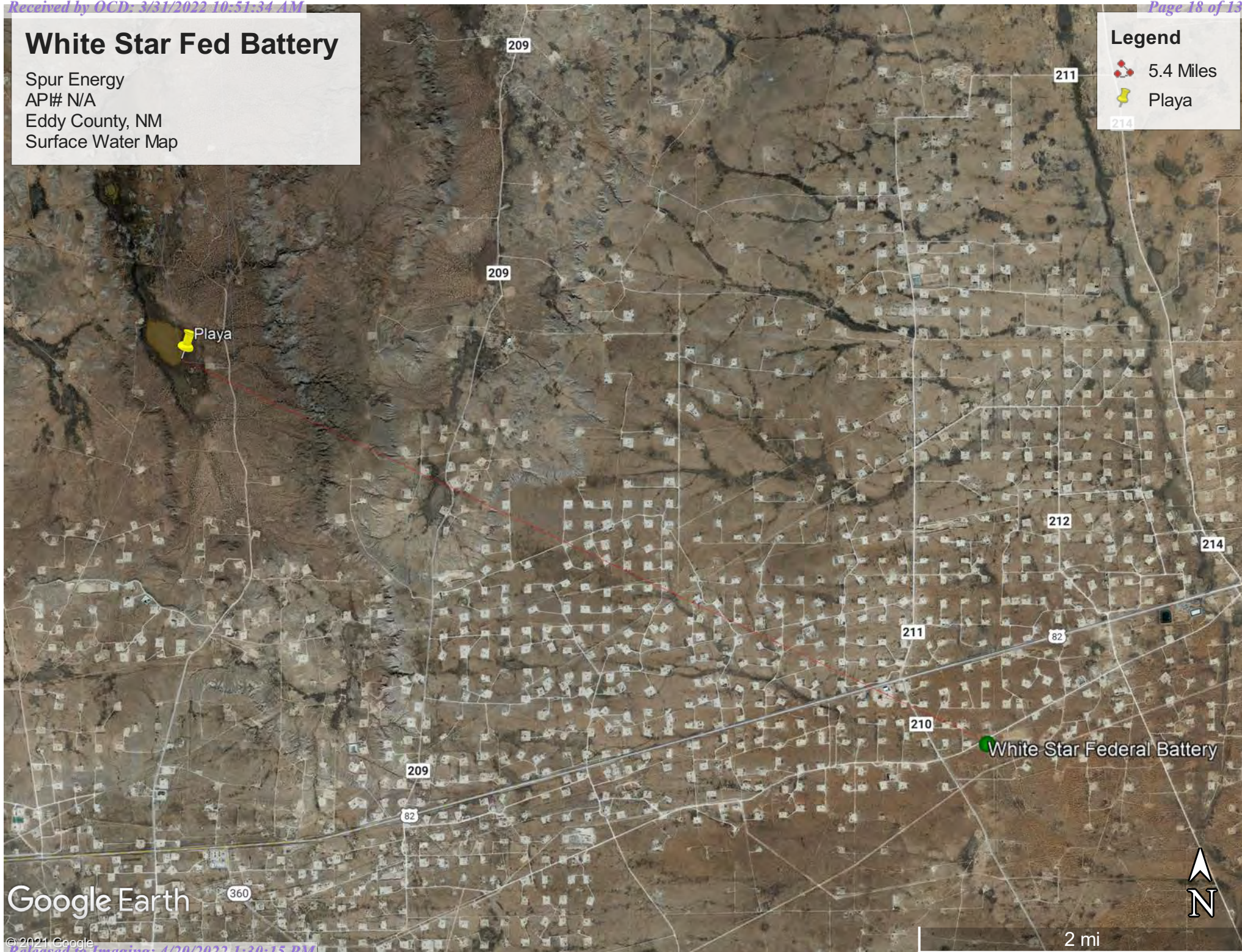


# White Star Fed Battery

Spur Energy  
AP# N/A  
Eddy County, NM  
Surface Water Map

## Legend

- 5.4 Miles
- Playa



Google Earth





Pima Environmental Services

**Appendix B**

Soil Survey & Geological Data

FEMA Flood Map

Map Unit Description: Pajarito loamy fine sand, 0 to 3 percent slopes, eroded---Eddy Area,  
New Mexico

---

## Eddy Area, New Mexico

### PA—Pajarito loamy fine sand, 0 to 3 percent slopes, eroded

#### Map Unit Setting

*National map unit symbol:* 1w54

*Elevation:* 2,700 to 5,500 feet

*Mean annual precipitation:* 5 to 15 inches

*Mean annual air temperature:* 57 to 70 degrees F

*Frost-free period:* 180 to 250 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Pajarito and similar soils:* 98 percent

*Minor components:* 2 percent

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

#### Description of Pajarito

##### Setting

*Landform:* Dunes, interdunes, plains

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex, linear

*Across-slope shape:* Convex, linear

*Parent material:* Mixed alluvium and/or eolian sands

##### Typical profile

*H1 - 0 to 13 inches:* loamy fine sand

*H2 - 13 to 36 inches:* fine sandy loam

*H3 - 36 to 60 inches:* fine sandy loam

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* Very low

*Capacity of the most limiting layer to transmit water (Ksat):* High  
(2.00 to 6.00 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 capacity:* Moderate (about 7.9 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 2e

*Land capability classification (nonirrigated):* 7e

*Hydrologic Soil Group:* A



Map Unit Description: Pajarito loamy fine sand, 0 to 3 percent slopes, eroded---Eddy Area,  
New Mexico

---

*Ecological site:* R042XC003NM - Loamy Sand  
*Hydric soil rating:* No

#### **Minor Components**

##### **Wink**

*Percent of map unit:* 1 percent  
*Ecological site:* R042XC003NM - Loamy Sand  
*Hydric soil rating:* No

##### **Berino**

*Percent of map unit:* 1 percent  
*Ecological site:* R042XC003NM - Loamy Sand  
*Hydric soil rating:* No

## **Data Source Information**

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

# National Flood Hazard Layer FIRMette



104°5'40"W 32°48'38"N



### Legend

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

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

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/9/2021 at 3:48 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.





Pima Environmental Services

**Appendix C**

C-141 Form  
48-Hour Notification

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

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

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

Incident ID	NAPP2119558081
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	Spur Energy Partners LLC	OGRID	328947
Contact Name	Braidy Moulder	Contact Telephone	713-264-2517
Contact email	bmoulder@spurepllc.com	Incident # (assigned by OCD)	NAPP2119558081
Contact mailing address	2407 Pecos Avenue, Artesia, NM 88210		

### Location of Release Source

Latitude 32.806527 Longitude -104.08915  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	White Star Federal Tank Battery	Site Type	Production
Date Release Discovered	06/17/2021	API# (if applicable)	

Unit Letter	Section	Township	Range	County
H	29	17S	29E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 60	Volume Recovered (bbls) 50
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Poly flowline fuse split at transition.



Form C-141

State of New Mexico  
Oil Conservation Division

Page 2

Incident ID	NAPP2119558081
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? <b>&gt;25 bbls</b>
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? <b>Dakota Neel (SPUR) sent an email to Mike Bratcher and Jim Griswold on 6/11/2021.</b>	

**Initial Response**

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:   	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <b>Dakota Neel</b>  Signature:   email: <b>dneel@spurepllc.com</b>	Title: <b>HSE Coordinator</b>  Date: <b>7/1/2021</b>  Telephone: <b>832-849-7837</b>
<b><u>OCD Only</u></b>  Received by: <b>Ramona Marcus</b> Date: <b>10/5/2021</b>	

Form C-141

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State of New Mexico  
Oil Conservation Division

Incident ID	NAPP2119558081
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release?	76 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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



Form C-141

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State of New Mexico  
Oil Conservation Division

Incident ID	NAPP2119558081
District RP	
Facility ID	
Application ID	

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

Printed Name: Braidy Moulder Title: HSE CoordinatorSignature: Braidy Moulder Date: 1/13/2022email: bmoulder@spurepllc.com Telephone: 713-264-2517**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Form C-141

Page 6

State of New Mexico  
Oil Conservation Division

Incident ID	NAPP2119558081
District RP	
Facility ID	
Application ID	

## Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

Printed Name: Braidy Moulder Title: HSE Coordinator

Signature: Braidy Moulder Date: 1/13/2022

email: bmoulder@spurepllc.com Telephone: 713-264-2517

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Closure Approved by: Jennifer Nobui Date: 04/20/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A



**From:** [Tom Bynum](#)  
**To:** ["ocdonline@state.nm.us"](mailto:ocdonline@state.nm.us)  
**Cc:** ["Gio PimaOil"](#)  
**Subject:** 48-Hour Notification - NAPP2119558081 White Star  
**Date:** Wednesday, December 15, 2021 4:40:00 PM

---

Good afternoon,

Pima Environmental would like to notify you that we will be collecting confirmation samples at the White Star Federal Tank Battery for incident NAPP2119558081. Pima personnel is scheduled to be on site for this sampling event at approximately 4:00 p.m. on Friday, December 17<sup>th</sup>, 2021. If you have any questions or concerns, please let me know. Thank you.

**THANK YOU,**

Tom Bynum  
Environmental Project Manager  
Cell – 580-748-1613  
Office – 575-964-7740



**Pima Environmental Services, LLC.**

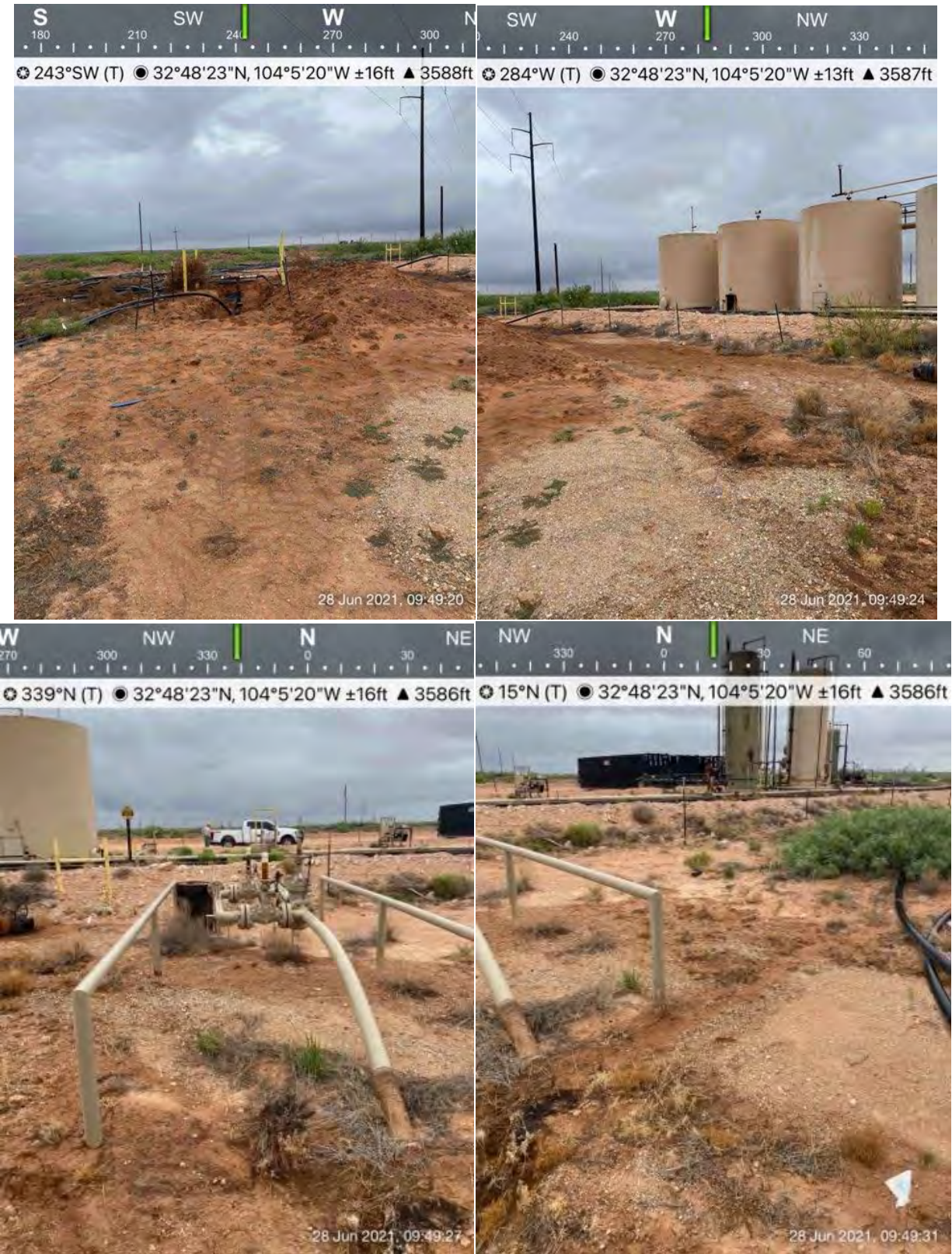


Pima Environmental Services

## **Appendix D**

Photographic Documentation





























Pima Environmental Services

## **Appendix E**

Laboratory Reports



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

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August 06, 2021

TOM BYNUM

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: WHITE STAR FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/02/21 14:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://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 style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 1 6" (H212031-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2021	ND	1.92	96.0	2.00	0.624	
Toluene*	<0.050	0.050	08/03/2021	ND	2.07	104	2.00	0.470	
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.00	99.8	2.00	0.650	
Total Xylenes*	<0.150	0.150	08/03/2021	ND	5.97	99.4	6.00	0.649	
Total BTX	<0.300	0.300	08/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-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	08/03/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/03/2021	ND	201	101	200	1.51	
DRO >C10-C28*	4950	50.0	08/03/2021	ND	194	97.2	200	2.79	
EXT DRO >C28-C36	1710	50.0	08/03/2021	ND					

Surrogate: 1-Chlorooctane 71.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 244 % 38.9-142

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:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 1 2' (H212031-02)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2021	ND	2.00	99.9	2.00	7.01	
Toluene*	<0.050	0.050	08/03/2021	ND	2.11	105	2.00	7.63	
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.03	101	2.00	6.86	
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.07	101	6.00	7.29	
Total BTX	<0.300	0.300	08/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	08/03/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2021	ND	201	101	200	1.51	
DRO >C10-C28*	286	10.0	08/03/2021	ND	194	97.2	200	2.79	
EXT DRO >C28-C36	144	10.0	08/03/2021	ND					

Surrogate: 1-Chlorooctane 68.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.4 % 38.9-142

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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:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 1 4' (H212031-03)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/03/2021	ND	2.00	99.9	2.00	7.01		
Toluene*	<0.050	0.050	08/03/2021	ND	2.11	105	2.00	7.63		
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.03	101	2.00	6.86		
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.07	101	6.00	7.29		
Total BTEx	<0.300	0.300	08/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

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	08/03/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/03/2021	ND	201	101	200	1.51	
DRO >C10-C28*	2080	50.0	08/03/2021	ND	194	97.2	200	2.79	
EXT DRO >C28-C36	713	50.0	08/03/2021	ND					

Surrogate: 1-Chlorooctane 69.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 138 % 38.9-142

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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:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 2 6" (H212031-04)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/03/2021	ND	2.00	99.9	2.00	7.01		
Toluene*	<0.050	0.050	08/03/2021	ND	2.11	105	2.00	7.63		
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.03	101	2.00	6.86		
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.07	101	6.00	7.29		
Total BTEx	<0.300	0.300	08/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3040	16.0	08/03/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/03/2021	ND	201	101	200	1.51	
DRO >C10-C28*	3350	50.0	08/03/2021	ND	194	97.2	200	2.79	
EXT DRO >C28-C36	1040	50.0	08/03/2021	ND					

Surrogate: 1-Chlorooctane 69.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 172 % 38.9-142

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 2 3' (H212031-05)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/03/2021	ND	2.00	99.9	2.00	7.01		
Toluene*	<0.050	0.050	08/03/2021	ND	2.11	105	2.00	7.63		
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.03	101	2.00	6.86		
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.07	101	6.00	7.29		
Total BTEx	<0.300	0.300	08/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

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	08/03/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2021	ND	201	101	200	1.51	
DRO >C10-C28*	96.2	10.0	08/03/2021	ND	194	97.2	200	2.79	
EXT DRO >C28-C36	50.2	10.0	08/03/2021	ND					

Surrogate: 1-Chlorooctane 60.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 60.1 % 38.9-142

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:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 2 4' (H212031-06)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/03/2021	ND	2.00	99.9	2.00	7.01		
Toluene*	<0.050	0.050	08/03/2021	ND	2.11	105	2.00	7.63		
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.03	101	2.00	6.86		
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.07	101	6.00	7.29		
Total BTEx	<0.300	0.300	08/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/03/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2021	ND	201	101	200	1.51	
DRO >C10-C28*	<10.0	10.0	08/03/2021	ND	194	97.2	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	08/03/2021	ND					

Surrogate: 1-Chlorooctane 67.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 62.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 3 6" (H212031-07)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/03/2021	ND	2.00	99.9	2.00	7.01		
Toluene*	<0.050	0.050	08/03/2021	ND	2.11	105	2.00	7.63		
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.03	101	2.00	6.86		
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.07	101	6.00	7.29		
Total BTEx	<0.300	0.300	08/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	08/03/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2021	ND	201	101	200	1.51	
DRO >C10-C28*	12.3	10.0	08/03/2021	ND	194	97.2	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	08/03/2021	ND					

Surrogate: 1-Chlorooctane 66.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 61.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 3 3' (H212031-08)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/03/2021	ND	2.00	99.9	2.00	7.01		
Toluene*	<0.050	0.050	08/03/2021	ND	2.11	105	2.00	7.63		
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.03	101	2.00	6.86		
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.07	101	6.00	7.29		
Total BTX	<0.300	0.300	08/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	08/03/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2021	ND	201	101	200	1.51	
DRO >C10-C28*	65.1	10.0	08/03/2021	ND	194	97.2	200	2.79	
EXT DRO >C28-C36	20.4	10.0	08/03/2021	ND					

Surrogate: 1-Chlorooctane 66.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 63.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 3 4' (H212031-09)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/03/2021	ND	2.00	99.9	2.00	7.01		
Toluene*	<0.050	0.050	08/03/2021	ND	2.11	105	2.00	7.63		
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.03	101	2.00	6.86		
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.07	101	6.00	7.29		
Total BTEx	<0.300	0.300	08/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/03/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2021	ND	214	107	200	0.811	
DRO >C10-C28*	<10.0	10.0	08/03/2021	ND	207	104	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	08/03/2021	ND					

Surrogate: 1-Chlorooctane 71.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 68.1 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 4 6" (H212031-10)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/03/2021	ND	2.00	99.9	2.00	7.01		
Toluene*	<0.050	0.050	08/03/2021	ND	2.11	105	2.00	7.63		
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.03	101	2.00	6.86		
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.07	101	6.00	7.29		
Total BTEx	<0.300	0.300	08/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/03/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2021	ND	214	107	200	0.811	
DRO >C10-C28*	<10.0	10.0	08/03/2021	ND	207	104	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	08/03/2021	ND					

Surrogate: 1-Chlorooctane 71.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 68.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 4 2' (H212031-11)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2021	ND	2.00	99.9	2.00	7.01	
Toluene*	<0.050	0.050	08/03/2021	ND	2.11	105	2.00	7.63	
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.03	101	2.00	6.86	
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.07	101	6.00	7.29	
Total BTX	<0.300	0.300	08/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9730	16.0	08/03/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2021	ND	214	107	200	0.811	
DRO >C10-C28*	<10.0	10.0	08/03/2021	ND	207	104	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	08/03/2021	ND					

Surrogate: 1-Chlorooctane 68.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 65.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 4 3' (H212031-12)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/03/2021	ND	2.00	99.9	2.00	7.01		
Toluene*	<0.050	0.050	08/03/2021	ND	2.11	105	2.00	7.63		
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.03	101	2.00	6.86		
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.07	101	6.00	7.29		
Total BTEx	<0.300	0.300	08/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/03/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2021	ND	214	107	200	0.811	
DRO >C10-C28*	<10.0	10.0	08/04/2021	ND	207	104	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	08/04/2021	ND					

Surrogate: 1-Chlorooctane 76.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 5 6" (H212031-13)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2021	ND	2.00	99.9	2.00	7.01	
Toluene*	<0.050	0.050	08/03/2021	ND	2.11	105	2.00	7.63	
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.03	101	2.00	6.86	
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.07	101	6.00	7.29	
Total BTX	<0.300	0.300	08/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/03/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2021	ND	214	107	200	0.811	
DRO >C10-C28*	36.1	10.0	08/03/2021	ND	207	104	200	2.22	
EXT DRO >C28-C36	14.7	10.0	08/03/2021	ND					

Surrogate: 1-Chlorooctane 69.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 67.3 % 38.9-142

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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:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 5 2' (H212031-14)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2021	ND	2.00	99.9	2.00	7.01	
Toluene*	<0.050	0.050	08/03/2021	ND	2.11	105	2.00	7.63	
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.03	101	2.00	6.86	
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.07	101	6.00	7.29	
Total BTX	<0.300	0.300	08/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	08/03/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2021	ND	214	107	200	0.811	
DRO >C10-C28*	1010	10.0	08/04/2021	ND	207	104	200	2.22	
EXT DRO >C28-C36	397	10.0	08/04/2021	ND					

Surrogate: 1-Chlorooctane 71.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 5 3' (H212031-15)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2021	ND	2.00	99.9	2.00	7.01	
Toluene*	<0.050	0.050	08/03/2021	ND	2.11	105	2.00	7.63	
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.03	101	2.00	6.86	
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.07	101	6.00	7.29	
Total BTX	<0.300	0.300	08/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	08/03/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2021	ND	214	107	200	0.811	
DRO >C10-C28*	<10.0	10.0	08/03/2021	ND	207	104	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	08/03/2021	ND					

Surrogate: 1-Chlorooctane 74.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 6 6" (H212031-16)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/03/2021	ND	2.00	99.9	2.00	7.01		
Toluene*	<0.050	0.050	08/03/2021	ND	2.11	105	2.00	7.63		
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.03	101	2.00	6.86		
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.07	101	6.00	7.29		
Total BTX	<0.300	0.300	08/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	08/03/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2021	ND	214	107	200	0.811	
DRO >C10-C28*	68.7	10.0	08/04/2021	ND	207	104	200	2.22	
EXT DRO >C28-C36	37.1	10.0	08/04/2021	ND					

Surrogate: 1-Chlorooctane 68.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 69.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 6 2' (H212031-17)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/03/2021	ND	2.00	99.9	2.00	7.01		
Toluene*	<0.050	0.050	08/03/2021	ND	2.11	105	2.00	7.63		
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.03	101	2.00	6.86		
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.07	101	6.00	7.29		
Total BTEx	<0.300	0.300	08/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	08/03/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2021	ND	214	107	200	0.811	
DRO >C10-C28*	17.6	10.0	08/04/2021	ND	207	104	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	08/04/2021	ND					

Surrogate: 1-Chlorooctane 65.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 64.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 6 3' (H212031-18)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/03/2021	ND	2.00	99.9	2.00	7.01		
Toluene*	<0.050	0.050	08/03/2021	ND	2.11	105	2.00	7.63		
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.03	101	2.00	6.86		
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.07	101	6.00	7.29		
Total BTX	<0.300	0.300	08/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/03/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2021	ND	214	107	200	0.811	
DRO >C10-C28*	<10.0	10.0	08/04/2021	ND	207	104	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	08/04/2021	ND					

Surrogate: 1-Chlorooctane 75.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 7 6" (H212031-19)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/03/2021	ND	2.00	99.9	2.00	7.01		
Toluene*	<0.050	0.050	08/03/2021	ND	2.11	105	2.00	7.63		
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.03	101	2.00	6.86		
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.07	101	6.00	7.29		
Total BTEX	<0.300	0.300	08/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/03/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2021	ND	214	107	200	0.811	
DRO >C10-C28*	39.4	10.0	08/04/2021	ND	207	104	200	2.22	
EXT DRO >C28-C36	15.7	10.0	08/04/2021	ND					

Surrogate: 1-Chlorooctane 72.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 7 3' (H212031-20)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/03/2021	ND	2.00	99.9	2.00	7.01		
Toluene*	<0.050	0.050	08/03/2021	ND	2.11	105	2.00	7.63		
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.03	101	2.00	6.86		
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.07	101	6.00	7.29		
Total BTEx	<0.300	0.300	08/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2280	16.0	08/03/2021	ND	400	100	400	3.92		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/04/2021	ND	214	107	200	0.811	
DRO >C10-C28*	3290	50.0	08/04/2021	ND	207	104	200	2.22	
EXT DRO >C28-C36	1300	50.0	08/04/2021	ND					

Surrogate: 1-Chlorooctane 75.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 192 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 7 4' (H212031-21)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/03/2021	ND	2.00	99.9	2.00	7.01		
Toluene*	<0.050	0.050	08/03/2021	ND	2.11	105	2.00	7.63		
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.03	101	2.00	6.86		
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.07	101	6.00	7.29		
Total BTX	<0.300	0.300	08/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/03/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2021	ND	201	101	200	0.987	
DRO >C10-C28*	<10.0	10.0	08/04/2021	ND	195	97.7	200	0.787	
EXT DRO >C28-C36	<10.0	10.0	08/04/2021	ND					

Surrogate: 1-Chlorooctane 68.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 61.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW - 1 6" (H212031-22)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/03/2021	ND	1.97	98.3	2.00	7.26		
Toluene*	<0.050	0.050	08/03/2021	ND	2.08	104	2.00	7.87		
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.00	100	2.00	7.46		
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.00	100	6.00	6.86		
Total BTEx	<0.300	0.300	08/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/03/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2021	ND	201	101	200	0.987	
DRO >C10-C28*	<10.0	10.0	08/04/2021	ND	195	97.7	200	0.787	
EXT DRO >C28-C36	<10.0	10.0	08/04/2021	ND					

Surrogate: 1-Chlorooctane 57.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 51.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW - 2 6" (H212031-23)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2021	ND	1.97	98.3	2.00	7.26	
Toluene*	<0.050	0.050	08/03/2021	ND	2.08	104	2.00	7.87	
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.00	100	2.00	7.46	
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.00	100	6.00	6.86	
Total BTEX	<0.300	0.300	08/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/03/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2021	ND	201	101	200	0.987	
DRO >C10-C28*	<10.0	10.0	08/04/2021	ND	195	97.7	200	0.787	
EXT DRO >C28-C36	<10.0	10.0	08/04/2021	ND					

Surrogate: 1-Chlorooctane 68.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 62.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW - 3 6" (H212031-24)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2021	ND	1.97	98.3	2.00	7.26	
Toluene*	<0.050	0.050	08/03/2021	ND	2.08	104	2.00	7.87	
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.00	100	2.00	7.46	
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.00	100	6.00	6.86	
Total BTEX	<0.300	0.300	08/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/03/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2021	ND	201	101	200	0.987	
DRO >C10-C28*	<10.0	10.0	08/04/2021	ND	195	97.7	200	0.787	
EXT DRO >C28-C36	<10.0	10.0	08/04/2021	ND					

Surrogate: 1-Chlorooctane 66.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 60.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW - 4 6" (H212031-25)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2021	ND	1.97	98.3	2.00	7.26	
Toluene*	<0.050	0.050	08/03/2021	ND	2.08	104	2.00	7.87	
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.00	100	2.00	7.46	
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.00	100	6.00	6.86	
Total BTEX	<0.300	0.300	08/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/03/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2021	ND	201	101	200	0.987	
DRO >C10-C28*	<10.0	10.0	08/04/2021	ND	195	97.7	200	0.787	
EXT DRO >C28-C36	<10.0	10.0	08/04/2021	ND					

Surrogate: 1-Chlorooctane 64.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 58.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW - 5 6" (H212031-26)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2021	ND	1.97	98.3	2.00	7.26	
Toluene*	<0.050	0.050	08/03/2021	ND	2.08	104	2.00	7.87	
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.00	100	2.00	7.46	
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.00	100	6.00	6.86	
Total BTEX	<0.300	0.300	08/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/03/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2021	ND	201	101	200	0.987	
DRO >C10-C28*	<10.0	10.0	08/04/2021	ND	195	97.7	200	0.787	
EXT DRO >C28-C36	<10.0	10.0	08/04/2021	ND					

Surrogate: 1-Chlorooctane 60.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 54.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW - 6 6" (H212031-27)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2021	ND	1.97	98.3	2.00	7.26	
Toluene*	<0.050	0.050	08/03/2021	ND	2.08	104	2.00	7.87	
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.00	100	2.00	7.46	
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.00	100	6.00	6.86	
Total BTEX	<0.300	0.300	08/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/03/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2021	ND	198	98.9	200	6.17	
DRO >C10-C28*	<10.0	10.0	08/03/2021	ND	194	97.0	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	08/03/2021	ND					

Surrogate: 1-Chlorooctane 67.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 62.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW - 7 6" (H212031-28)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2021	ND	1.97	98.3	2.00	7.26	
Toluene*	<0.050	0.050	08/03/2021	ND	2.08	104	2.00	7.87	
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.00	100	2.00	7.46	
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.00	100	6.00	6.86	
Total BTEx	<0.300	0.300	08/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/03/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2021	ND	198	98.9	200	6.17	
DRO >C10-C28*	<10.0	10.0	08/03/2021	ND	194	97.0	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	08/03/2021	ND					

Surrogate: 1-Chlorooctane 58.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 53.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: BG - 1 6" (H212031-29)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/03/2021	ND	1.97	98.3	2.00	7.26		
Toluene*	<0.050	0.050	08/03/2021	ND	2.08	104	2.00	7.87		
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.00	100	2.00	7.46		
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.00	100	6.00	6.86		
Total BTEx	<0.300	0.300	08/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/03/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2021	ND	201	101	200	0.987	
DRO >C10-C28*	<10.0	10.0	08/04/2021	ND	195	97.7	200	0.787	
EXT DRO >C28-C36	<10.0	10.0	08/04/2021	ND					

Surrogate: 1-Chlorooctane 67.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 60.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 08/02/2021  
Reported: 08/06/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 07/30/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: BG - 2 6" (H212031-30)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/03/2021	ND	1.97	98.3	2.00	7.26		
Toluene*	<0.050	0.050	08/03/2021	ND	2.08	104	2.00	7.87		
Ethylbenzene*	<0.050	0.050	08/03/2021	ND	2.00	100	2.00	7.46		
Total Xylenes*	<0.150	0.150	08/03/2021	ND	6.00	100	6.00	6.86		
Total BTEx	<0.300	0.300	08/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/03/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2021	ND	201	101	200	0.987	
DRO >C10-C28*	<10.0	10.0	08/04/2021	ND	195	97.7	200	0.787	
EXT DRO >C28-C36	<10.0	10.0	08/04/2021	ND					

Surrogate: 1-Chlorooctane 67.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 59.7 % 38.9-142

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

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### Notes and Definitions

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

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

---

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Pima Environmental</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>													
Project Manager: <u>Tom Dymun</u>		P.O. #:															
Address: <u>1601 N Turner St, Suite 500</u>		Company:															
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Attn:															
Phone #: <u>580-748-1613</u> Fax #:		Address:															
Project #: <u>6-29</u> Project Owner: <u>Spur</u>		City:															
Project Name: <u>White Star Federal Battery</u>		State: Zip:															
Project Location: <u>Loco Hills</u>		Phone #:															
Sampler Name: <u>Gio Gomez</u>		Fax #:															
FOR LAB USE ONLY																	
Lab I.D.	Sample I.D.	(GRAB OR C/COMP.)	# CONTAINERS	MATRIX				PRESERV.	SAMPLING		<u>STEX</u> <u>Total TPH</u> <u>Chlorides</u>						
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE:				ICE / COOL	OTHER	DATE	TIME
<u>H212031</u>																	
<u>1</u>	<u>S-1</u> <u>6"</u>	<u>G</u>	<u>1</u>			<u>X</u>								<u>X</u>		<u>7/30/21</u>	<u>1030</u>
<u>2</u>	<u>S-1</u> <u>2'</u>																
<u>3</u>	<u>S-1</u> <u>4'</u>																
<u>4</u>	<u>S-2</u> <u>6"</u>																
<u>5</u>	<u>S-2</u> <u>3'</u>													<u>1035</u>			
<u>6</u>	<u>S-2</u> <u>4'</u>																
<u>7</u>	<u>S-3</u> <u>6"</u>																
<u>8</u>	<u>S-3</u> <u>3'</u>													<u>1040</u>			
<u>9</u>	<u>S-3</u> <u>4'</u>																
<u>10</u>	<u>S-4</u> <u>6"</u>													<u>1045</u>			

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Relinquished By: <u>Tom Dymun</u>	Date: <u>8-2-21</u>	Received By: <u>Kenneth Aldridge</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <u>Tom Dymun</u>	Time: <u>1435</u>	Received By: <u>Kenneth Aldridge</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>-31°C #113</u>	Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) <u>TD</u>	REMARKS: <u>Standard (NO RUSH)</u>	

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





# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>									
Project Manager:		P.O. #:		<div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> <p>DATE: 7/30/14</p> <p>TIME: 1045</p> <p>1050</p> <p>1055</p> <p>1000</p> </div> <div style="width: 20%;"> <p>BTEX</p> <p>Total TPH</p> <p>Chlorides</p> </div> </div>									
Address:		Company:											
City: State: Zip:		Attn:											
Phone #: Fax #:		Address:											
Project #: Project Owner:		City:											
Project Name:		State: Zip:											
Project Location:		Phone #:											
Sampler Name:		Fax #:											
FOR LAB USE ONLY													
Lab I.D.	Sample I.D.	(GRAB OR C)COMP.	# CONTAINERS	MATRIX			PRESERV.	SAMPLING					
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	
H212031													
11	S-4 2'	G	1			X				X			
12	S-4 3'												
13	S-5 6"												
14	S-5 2'												
15	S-5 3'												
16	S-6 6"												
17	S-6 2'												
18	S-6 3'												
19	S-7 6"												
20	S-7 3'												

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Relinquished By:	Date: 8-2-21	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1435	<i>Amara Siddiqui</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)		Sample Condition	CHECKED BY:	
Sampler - UPS - Bus - Other: -3.1° #113		Cool Intact	(Initials)	
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	T.O.	

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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 35 of 35

Company Name: Project Manager: Address: City:                      State:                      Zip: Phone #:                      Fax #: Project #:                      Project Owner: Project Name: Project Location: Sampler Name:				<b>BILL TO</b> P.O. #: Company: Attn: Address: City: State:                      Zip: Phone #: Fax #:												<b>ANALYSIS REQUEST</b>																			
FOR LAB USE ONLY																																			
Lab I.D.		Sample I.D.		(GRAB OR COMPOUND) # CONTAINERS		MATRIX				PRESERV.		SAMPLING																							
						GROUNDWATER		WASTEWATER		SOIL		SLUDGE		OTHER:		ACID/BASE: ICE / COOL		OTHER:		DATE		TIME													
4212031				G				X						X						7/30/21		1100													
21 S-7 4"																				1105															
22 SW-1 6"																				1110															
23 SW-2 6"																				1115															
24 SW-3 6"																																			
25 SW-4 6"																																			
26 SW-5 6"																																			
27 SW-6 6"																																			
28 SW-7 6"																																			
29 BG-1 6"																																			
30 BG-2 6"																																			

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Relinquished By: Date: 8-2-21 Time: 1435 Delivered By: (Circle One) Sampler - UPS - Bus - Other: - 3.1c #113		Received By: <i>[Signature]</i> Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No    Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No    Add'l Fax #: REMARKS:	
--	--	---	--	--	--

Sample Condition: Cool Intact ☐ Yes ☐ No    CHECKED BY: (Initials) *[Signature]*

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2476





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

---

December 23, 2021

TOM BYNUM

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: WHITE STAR FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/21/21 9:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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](http://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:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 1 (H213678-01)**

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/22/2021	ND	1.99	99.4	2.00	5.07	
Toluene*	<0.050	0.050	12/22/2021	ND	1.92	95.8	2.00	5.35	
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.84	91.8	2.00	6.03	
Total Xylenes*	<0.150	0.150	12/22/2021	ND	5.57	92.8	6.00	5.72	
Total BTEx	<0.300	0.300	12/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/23/2021	ND	416	104	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	12/22/2021	ND	219	110	200	2.68	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	210	105	200	7.95	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 89.4 % 62-130

Surrogate: 1-Chlorooctadecane 83.0 % 54.5-135

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:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 2 (H213678-02)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2021	ND	1.99	99.4	2.00	5.07		
Toluene*	<0.050	0.050	12/22/2021	ND	1.92	95.8	2.00	5.35		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.84	91.8	2.00	6.03		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	5.57	92.8	6.00	5.72		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/23/2021	ND	416	104	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	12/22/2021	ND	219	110	200	2.68	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	210	105	200	7.95	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 91.5 % 62-130

Surrogate: 1-Chlorooctadecane 85.8 % 54.5-135

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:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 3 (H213678-03)**

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2021	ND	1.99	99.4	2.00	5.07		
Toluene*	<0.050	0.050	12/22/2021	ND	1.92	95.8	2.00	5.35		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.84	91.8	2.00	6.03		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	5.57	92.8	6.00	5.72		
Total BTX	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/23/2021	ND	416	104	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	12/22/2021	ND	219	110	200	2.68	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	210	105	200	7.95	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 113 % 62-130

Surrogate: 1-Chlorooctadecane 104 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 4 (H213678-04)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2021	ND	1.99	99.4	2.00	5.07		
Toluene*	<0.050	0.050	12/22/2021	ND	1.92	95.8	2.00	5.35		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.84	91.8	2.00	6.03		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	5.57	92.8	6.00	5.72		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/23/2021	ND	416	104	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	12/22/2021	ND	219	110	200	2.68	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	210	105	200	7.95	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 128 % 62-130

Surrogate: 1-Chlorooctadecane 121 % 54.5-135

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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:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 5 (H213678-05)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2021	ND	1.99	99.4	2.00	5.07		
Toluene*	<0.050	0.050	12/22/2021	ND	1.92	95.8	2.00	5.35		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.84	91.8	2.00	6.03		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	5.57	92.8	6.00	5.72		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/23/2021	ND	416	104	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	12/22/2021	ND	219	110	200	2.68	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	210	105	200	7.95	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 99.4 % 62-130

Surrogate: 1-Chlorooctadecane 91.6 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 6 (H213678-06)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2021	ND	1.99	99.4	2.00	5.07		
Toluene*	<0.050	0.050	12/22/2021	ND	1.92	95.8	2.00	5.35		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.84	91.8	2.00	6.03		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	5.57	92.8	6.00	5.72		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	12/23/2021	ND	416	104	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	12/22/2021	ND	219	110	200	2.68	
DRO >C10-C28*	70.5	10.0	12/22/2021	ND	210	105	200	7.95	
EXT DRO >C28-C36	31.1	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 97.0 % 62-130

Surrogate: 1-Chlorooctadecane 104 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 7 (H213678-07)**

BTX 8021B			mg/kg							
			Analyzed By: MS/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2021	ND	1.99	99.4	2.00	5.07		
Toluene*	<0.050	0.050	12/22/2021	ND	1.92	95.8	2.00	5.35		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.84	91.8	2.00	6.03		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	5.57	92.8	6.00	5.72		
Total BTX	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 69.9-140

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	12/23/2021	ND	416	104	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	12/22/2021	ND	219	110	200	2.68		
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	210	105	200	7.95		
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND						

Surrogate: 1-Chlorooctane 98.5 % 62-130

Surrogate: 1-Chlorooctadecane 91.9 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 8 (H213678-08)**

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2021	ND	1.99	99.4	2.00	5.07		
Toluene*	<0.050	0.050	12/22/2021	ND	1.92	95.8	2.00	5.35		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.84	91.8	2.00	6.03		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	5.57	92.8	6.00	5.72		
Total BTX	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/23/2021	ND	416	104	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	12/22/2021	ND	219	110	200	2.68	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	210	105	200	7.95	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 96.2 % 62-130

Surrogate: 1-Chlorooctadecane 90.4 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 9 (H213678-09)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2021	ND	1.99	99.4	2.00	5.07		
Toluene*	<0.050	0.050	12/22/2021	ND	1.92	95.8	2.00	5.35		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.84	91.8	2.00	6.03		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	5.57	92.8	6.00	5.72		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/23/2021	ND	416	104	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	12/22/2021	ND	189	94.3	200	4.62	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	214	107	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 96.7 % 62-130

Surrogate: 1-Chlorooctadecane 94.8 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 10 (H213678-10)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2021	ND	1.99	99.4	2.00	5.07		
Toluene*	<0.050	0.050	12/22/2021	ND	1.92	95.8	2.00	5.35		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.84	91.8	2.00	6.03		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	5.57	92.8	6.00	5.72		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	12/23/2021	ND	416	104	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	12/22/2021	ND	189	94.3	200	4.62	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	214	107	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 93.8 % 62-130

Surrogate: 1-Chlorooctadecane 92.9 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 11 (H213678-11)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2021	ND	1.99	99.4	2.00	5.07		
Toluene*	<0.050	0.050	12/22/2021	ND	1.92	95.8	2.00	5.35		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.84	91.8	2.00	6.03		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	5.57	92.8	6.00	5.72		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/23/2021	ND	416	104	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	12/22/2021	ND	189	94.3	200	4.62	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	214	107	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 89.0 % 62-130

Surrogate: 1-Chlorooctadecane 88.4 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 12 (H213678-12)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2021	ND	1.99	99.4	2.00	5.07		
Toluene*	<0.050	0.050	12/22/2021	ND	1.92	95.8	2.00	5.35		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.84	91.8	2.00	6.03		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	5.57	92.8	6.00	5.72		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/23/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	189	94.3	200	4.62	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	214	107	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 87.7 % 62-130

Surrogate: 1-Chlorooctadecane 85.1 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 13 (H213678-13)**

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2021	ND	1.99	99.4	2.00	5.07		
Toluene*	<0.050	0.050	12/22/2021	ND	1.92	95.8	2.00	5.35		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.84	91.8	2.00	6.03		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	5.57	92.8	6.00	5.72		
Total BTX	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/23/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	189	94.3	200	4.62	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	214	107	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 90.6 % 62-130

Surrogate: 1-Chlorooctadecane 89.0 % 54.5-135

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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:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 14 (H213678-14)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2021	ND	1.99	99.4	2.00	5.07		
Toluene*	<0.050	0.050	12/22/2021	ND	1.92	95.8	2.00	5.35		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.84	91.8	2.00	6.03		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	5.57	92.8	6.00	5.72		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	12/23/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	189	94.3	200	4.62	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	214	107	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 94.8 % 62-130

Surrogate: 1-Chlorooctadecane 93.2 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 15 (H213678-15)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2021	ND	1.99	99.4	2.00	5.07		
Toluene*	<0.050	0.050	12/22/2021	ND	1.92	95.8	2.00	5.35		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.84	91.8	2.00	6.03		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	5.57	92.8	6.00	5.72		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	12/23/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	189	94.3	200	4.62	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	214	107	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 93.3 % 62-130

Surrogate: 1-Chlorooctadecane 92.3 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 16 (H213678-16)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2021	ND	1.99	99.4	2.00	5.07		
Toluene*	<0.050	0.050	12/22/2021	ND	1.92	95.8	2.00	5.35		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.84	91.8	2.00	6.03		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	5.57	92.8	6.00	5.72		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/23/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	189	94.3	200	4.62	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	214	107	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 93.7 % 62-130

Surrogate: 1-Chlorooctadecane 93.6 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 17 (H213678-17)**

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/22/2021	ND	1.99	99.4	2.00	5.07	
Toluene*	<0.050	0.050	12/22/2021	ND	1.92	95.8	2.00	5.35	
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.84	91.8	2.00	6.03	
Total Xylenes*	<0.150	0.150	12/22/2021	ND	5.57	92.8	6.00	5.72	
Total BTX	<0.300	0.300	12/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/23/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	189	94.3	200	4.62	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	214	107	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 92.2 % 62-130

Surrogate: 1-Chlorooctadecane 91.3 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 18 (H213678-18)**

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2021	ND	1.99	99.4	2.00	5.07		
Toluene*	<0.050	0.050	12/22/2021	ND	1.92	95.8	2.00	5.35		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.84	91.8	2.00	6.03		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	5.57	92.8	6.00	5.72		
Total BTX	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/23/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	189	94.3	200	4.62	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	214	107	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 97.4 % 62-130

Surrogate: 1-Chlorooctadecane 95.9 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 19 (H213678-19)**

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2021	ND	1.99	99.4	2.00	5.07		
Toluene*	<0.050	0.050	12/22/2021	ND	1.92	95.8	2.00	5.35		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.84	91.8	2.00	6.03		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	5.57	92.8	6.00	5.72		
Total BTX	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/23/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	189	94.3	200	4.62	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	214	107	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 89.4 % 62-130

Surrogate: 1-Chlorooctadecane 87.7 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 20 (H213678-20)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2021	ND	1.99	99.4	2.00	5.07		
Toluene*	<0.050	0.050	12/22/2021	ND	1.92	95.8	2.00	5.35		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.84	91.8	2.00	6.03		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	5.57	92.8	6.00	5.72		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/23/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	189	94.3	200	4.62	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	214	107	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 96.0 % 62-130

Surrogate: 1-Chlorooctadecane 95.4 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 21 (H213678-21)**

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	12/22/2021	ND	1.85	92.6	2.00	8.15	
Toluene*	<0.050	0.050	12/22/2021	ND	1.94	97.0	2.00	6.89	
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.95	97.5	2.00	10.8	
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.15	103	6.00	9.43	
Total BTX	<0.300	0.300	12/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/23/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	189	94.3	200	4.62	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	214	107	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 92.0 % 62-130

Surrogate: 1-Chlorooctadecane 92.2 % 54.5-135

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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:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 22 (H213678-22)**

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	12/22/2021	ND	1.85	92.6	2.00	8.15	
Toluene*	<0.050	0.050	12/22/2021	ND	1.94	97.0	2.00	6.89	
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.95	97.5	2.00	10.8	
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.15	103	6.00	9.43	
Total BTX	<0.300	0.300	12/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/23/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	189	94.3	200	4.62	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	214	107	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 101 % 62-130

Surrogate: 1-Chlorooctadecane 101 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 23 (H213678-23)**

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	12/22/2021	ND	1.85	92.6	2.00	8.15	
Toluene*	<0.050	0.050	12/22/2021	ND	1.94	97.0	2.00	6.89	
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.95	97.5	2.00	10.8	
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.15	103	6.00	9.43	
Total BTX	<0.300	0.300	12/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/23/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	189	94.3	200	4.62	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	214	107	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 93.6 % 62-130

Surrogate: 1-Chlorooctadecane 92.6 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 24 (H213678-24)**

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	12/22/2021	ND	1.85	92.6	2.00	8.15	
Toluene*	<0.050	0.050	12/22/2021	ND	1.94	97.0	2.00	6.89	
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.95	97.5	2.00	10.8	
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.15	103	6.00	9.43	
Total BTX	<0.300	0.300	12/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/23/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	227	113	200	1.23	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	257	128	200	0.0156	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 123 % 62-130

Surrogate: 1-Chlorooctadecane 122 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 25 (H213678-25)**

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	12/22/2021	ND	1.85	92.6	2.00	8.15		
Toluene*	<0.050	0.050	12/22/2021	ND	1.94	97.0	2.00	6.89		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.95	97.5	2.00	10.8		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.15	103	6.00	9.43		
Total BTX	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/23/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	227	113	200	1.23	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	257	128	200	0.0156	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 111 % 62-130

Surrogate: 1-Chlorooctadecane 108 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received:	12/21/2021	Sampling Date:	12/20/2021
Reported:	12/23/2021	Sampling Type:	Soil
Project Name:	WHITE STAR FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	6-29	Sample Received By:	Tamara Oldaker
Project Location:	SPUR ENERGY - LOCO HILLS		

**Sample ID: B - 26 (H213678-26)**

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	12/22/2021	ND	1.85	92.6	2.00	8.15		
Toluene*	<0.050	0.050	12/22/2021	ND	1.94	97.0	2.00	6.89		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.95	97.5	2.00	10.8		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.15	103	6.00	9.43		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/23/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	227	113	200	1.23	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	257	128	200	0.0156	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 120 % 62-130

Surrogate: 1-Chlorooctadecane 117 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 27 (H213678-27)**

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	12/22/2021	ND	1.85	92.6	2.00	8.15	
Toluene*	<0.050	0.050	12/22/2021	ND	1.94	97.0	2.00	6.89	
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.95	97.5	2.00	10.8	
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.15	103	6.00	9.43	
Total BTX	<0.300	0.300	12/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/23/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	227	113	200	1.23	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	257	128	200	0.0156	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 119 % 62-130

Surrogate: 1-Chlorooctadecane 117 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 28 (H213678-28)**

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	12/22/2021	ND	1.85	92.6	2.00	8.15		
Toluene*	<0.050	0.050	12/22/2021	ND	1.94	97.0	2.00	6.89		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.95	97.5	2.00	10.8		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.15	103	6.00	9.43		
Total BTX	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/23/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	227	113	200	1.23	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	257	128	200	0.0156	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 119 % 62-130

Surrogate: 1-Chlorooctadecane 116 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 29 (H213678-29)**

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	12/22/2021	ND	1.85	92.6	2.00	8.15		
Toluene*	<0.050	0.050	12/22/2021	ND	1.94	97.0	2.00	6.89		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.95	97.5	2.00	10.8		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.15	103	6.00	9.43		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/23/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	227	113	200	1.23	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	257	128	200	0.0156	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 125 % 62-130

Surrogate: 1-Chlorooctadecane 122 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 30 (H213678-30)**

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	12/22/2021	ND	1.85	92.6	2.00	8.15		
Toluene*	<0.050	0.050	12/22/2021	ND	1.94	97.0	2.00	6.89		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.95	97.5	2.00	10.8		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.15	103	6.00	9.43		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/23/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	227	113	200	1.23	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	257	128	200	0.0156	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 119 % 62-130

Surrogate: 1-Chlorooctadecane 115 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 31 (H213678-31)**

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	12/22/2021	ND	1.85	92.6	2.00	8.15		
Toluene*	<0.050	0.050	12/22/2021	ND	1.94	97.0	2.00	6.89		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.95	97.5	2.00	10.8		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.15	103	6.00	9.43		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/23/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	227	113	200	1.23	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	257	128	200	0.0156	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 116 % 62-130

Surrogate: 1-Chlorooctadecane 114 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 32 (H213678-32)**

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	12/22/2021	ND	1.85	92.6	2.00	8.15		
Toluene*	<0.050	0.050	12/22/2021	ND	1.94	97.0	2.00	6.89		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.95	97.5	2.00	10.8		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.15	103	6.00	9.43		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/23/2021	ND	416	104	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	12/22/2021	ND	227	113	200	1.23	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	257	128	200	0.0156	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 119 % 62-130

Surrogate: 1-Chlorooctadecane 114 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 33 (H213678-33)**

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	12/22/2021	ND	1.85	92.6	2.00	8.15		
Toluene*	<0.050	0.050	12/22/2021	ND	1.94	97.0	2.00	6.89		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.95	97.5	2.00	10.8		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.15	103	6.00	9.43		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/23/2021	ND	416	104	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	12/23/2021	ND	227	113	200	1.23	
DRO >C10-C28*	<10.0	10.0	12/23/2021	ND	257	128	200	0.0156	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					

Surrogate: 1-Chlorooctane 116 % 62-130

Surrogate: 1-Chlorooctadecane 113 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 34 (H213678-34)**

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	12/22/2021	ND	1.85	92.6	2.00	8.15	
Toluene*	<0.050	0.050	12/22/2021	ND	1.94	97.0	2.00	6.89	
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.95	97.5	2.00	10.8	
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.15	103	6.00	9.43	
Total BTX	<0.300	0.300	12/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/23/2021	ND	416	104	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	12/22/2021	ND	227	113	200	1.23	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	257	128	200	0.0156	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 118 % 62-130

Surrogate: 1-Chlorooctadecane 115 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 35 (H213678-35)**

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	12/22/2021	ND	1.85	92.6	2.00	8.15		
Toluene*	<0.050	0.050	12/22/2021	ND	1.94	97.0	2.00	6.89		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.95	97.5	2.00	10.8		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.15	103	6.00	9.43		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/23/2021	ND	416	104	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	12/22/2021	ND	227	113	200	1.23	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	257	128	200	0.0156	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 120 % 62-130

Surrogate: 1-Chlorooctadecane 117 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 36 (H213678-36)**

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	12/22/2021	ND	1.85	92.6	2.00	8.15		
Toluene*	<0.050	0.050	12/22/2021	ND	1.94	97.0	2.00	6.89		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.95	97.5	2.00	10.8		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.15	103	6.00	9.43		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	12/23/2021	ND	416	104	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	12/22/2021	ND	227	113	200	1.23	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	257	128	200	0.0156	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 117 % 62-130

Surrogate: 1-Chlorooctadecane 116 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 37 (H213678-37)**

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	12/22/2021	ND	1.85	92.6	2.00	8.15	
Toluene*	<0.050	0.050	12/22/2021	ND	1.94	97.0	2.00	6.89	
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.95	97.5	2.00	10.8	
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.15	103	6.00	9.43	
Total BTEx	<0.300	0.300	12/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/23/2021	ND	416	104	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	12/22/2021	ND	227	113	200	1.23	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	257	128	200	0.0156	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 114 % 62-130

Surrogate: 1-Chlorooctadecane 111 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 38 (H213678-38)**

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	12/22/2021	ND	1.85	92.6	2.00	8.15		
Toluene*	<0.050	0.050	12/22/2021	ND	1.94	97.0	2.00	6.89		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.95	97.5	2.00	10.8		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.15	103	6.00	9.43		
Total BTX	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	12/23/2021	ND	416	104	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	12/22/2021	ND	227	113	200	1.23	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	257	128	200	0.0156	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 106 % 62-130

Surrogate: 1-Chlorooctadecane 103 % 54.5-135

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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:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received:	12/21/2021	Sampling Date:	12/20/2021
Reported:	12/23/2021	Sampling Type:	Soil
Project Name:	WHITE STAR FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	6-29	Sample Received By:	Tamara Oldaker
Project Location:	SPUR ENERGY - LOCO HILLS		

**Sample ID: B - 39 (H213678-39)**

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	12/22/2021	ND	1.85	92.6	2.00	8.15		
Toluene*	<0.050	0.050	12/22/2021	ND	1.94	97.0	2.00	6.89		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.95	97.5	2.00	10.8		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.15	103	6.00	9.43		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	12/23/2021	ND	416	104	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	12/22/2021	ND	227	113	200	1.23	
DRO >C10-C28*	61.0	10.0	12/22/2021	ND	257	128	200	0.0156	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 120 % 62-130

Surrogate: 1-Chlorooctadecane 120 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 40 (H213678-40)**

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	12/22/2021	ND	1.85	92.6	2.00	8.15		
Toluene*	<0.050	0.050	12/22/2021	ND	1.94	97.0	2.00	6.89		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.95	97.5	2.00	10.8		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.15	103	6.00	9.43		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/23/2021	ND	416	104	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	12/22/2021	ND	227	113	200	1.23	
DRO >C10-C28*	30.3	10.0	12/22/2021	ND	257	128	200	0.0156	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 104 % 62-130

Surrogate: 1-Chlorooctadecane 100 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 41 (H213678-41)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2021	ND	2.10	105	2.00	4.23		
Toluene*	<0.050	0.050	12/22/2021	ND	1.97	98.5	2.00	4.27		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.97	98.3	2.00	4.63		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.08	101	6.00	5.09		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/23/2021	ND	416	104	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	12/22/2021	ND	227	113	200	1.23	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	257	128	200	0.0156	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 88.1 % 62-130

Surrogate: 1-Chlorooctadecane 84.1 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B - 42 (H213678-42)**

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/22/2021	ND	2.10	105	2.00	4.23	
Toluene*	<0.050	0.050	12/22/2021	ND	1.97	98.5	2.00	4.27	
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.97	98.3	2.00	4.63	
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.08	101	6.00	5.09	
Total BTEX	<0.300	0.300	12/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	12/23/2021	ND	416	104	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	12/23/2021	ND	227	113	200	1.23	
DRO >C10-C28*	334	10.0	12/23/2021	ND	257	128	200	0.0156	
EXT DRO >C28-C36	72.9	10.0	12/23/2021	ND					

Surrogate: 1-Chlorooctane 117 % 62-130

Surrogate: 1-Chlorooctadecane 124 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW - 1 (H213678-43)**

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/22/2021	ND	2.10	105	2.00	4.23	
Toluene*	<0.050	0.050	12/22/2021	ND	1.97	98.5	2.00	4.27	
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.97	98.3	2.00	4.63	
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.08	101	6.00	5.09	
Total BTEx	<0.300	0.300	12/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/23/2021	ND	416	104	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	12/22/2021	ND	227	113	200	1.23	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	257	128	200	0.0156	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 109 % 62-130

Surrogate: 1-Chlorooctadecane 105 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW - 2 (H213678-44)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2021	ND	2.10	105	2.00	4.23		
Toluene*	<0.050	0.050	12/22/2021	ND	1.97	98.5	2.00	4.27		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.97	98.3	2.00	4.63		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.08	101	6.00	5.09		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/23/2021	ND	416	104	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	12/22/2021	ND	198	99.2	200	15.2	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	209	105	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 101 % 62-130

Surrogate: 1-Chlorooctadecane 89.7 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW - 3 (H213678-45)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2021	ND	2.10	105	2.00	4.23		
Toluene*	<0.050	0.050	12/22/2021	ND	1.97	98.5	2.00	4.27		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.97	98.3	2.00	4.63		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.08	101	6.00	5.09		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/23/2021	ND	416	104	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	12/22/2021	ND	198	99.2	200	15.2	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	209	105	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 102 % 62-130

Surrogate: 1-Chlorooctadecane 91.2 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW - 4 (H213678-46)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2021	ND	2.10	105	2.00	4.23		
Toluene*	<0.050	0.050	12/22/2021	ND	1.97	98.5	2.00	4.27		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.97	98.3	2.00	4.63		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.08	101	6.00	5.09		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/23/2021	ND	416	104	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	12/22/2021	ND	198	99.2	200	15.2	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	209	105	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 100 % 62-130

Surrogate: 1-Chlorooctadecane 91.0 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW - 5 (H213678-47)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2021	ND	2.10	105	2.00	4.23		
Toluene*	<0.050	0.050	12/22/2021	ND	1.97	98.5	2.00	4.27		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.97	98.3	2.00	4.63		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.08	101	6.00	5.09		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/23/2021	ND	416	104	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	12/22/2021	ND	198	99.2	200	15.2	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	209	105	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 99.1 % 62-130

Surrogate: 1-Chlorooctadecane 87.9 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW - 6 (H213678-48)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2021	ND	2.10	105	2.00	4.23		
Toluene*	<0.050	0.050	12/22/2021	ND	1.97	98.5	2.00	4.27		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.97	98.3	2.00	4.63		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.08	101	6.00	5.09		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/23/2021	ND	416	104	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	12/22/2021	ND	198	99.2	200	15.2	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	209	105	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 100 % 62-130

Surrogate: 1-Chlorooctadecane 91.0 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/21/2021  
Reported: 12/23/2021  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/20/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW - 7 (H213678-49)**

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2021	ND	2.10	105	2.00	4.23		
Toluene*	<0.050	0.050	12/22/2021	ND	1.97	98.5	2.00	4.27		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.97	98.3	2.00	4.63		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.08	101	6.00	5.09		
Total BTEX	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/23/2021	ND	416	104	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	12/22/2021	ND	198	99.2	200	15.2	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	209	105	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 97.1 % 62-130

Surrogate: 1-Chlorooctadecane 88.9 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

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

Celey D. Keene, Lab Director/Quality Manager



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

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Relinquished By: <i>[Signature]</i>		Date: <i>12-7-01</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: <i>0955</i>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS:	
Time:					
Delivered By: (Circle One) <i>5.6i</i> C-0.5i		Sample Condition	CHECKED BY: (Initials)		
Sampler - UPS - Bus - Other: <i>5.1i #113</i>		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	<i>TO</i>		
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		

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### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <b>Pima Environmental Services</b>				<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																					
Project Manager: <b>Tom Bynum</b>				P.O. #:		<div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPX EXT</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chlorides</div>																					
Address: <b>1601 N Turner St., Suite 500</b>				Company: <b>SPUR ENERGY</b>																							
City: <b>Hobbs</b>		State: <b>NM</b>		Zip: <b>88240</b>																							
Phone #: <b>575-964-7740</b>		Fax #:		Address:																							
Project #: <b>6-29</b>		Project Owner:		City:																							
Project Name: <b>White Star Fed Battery</b>				State:      Zip:																							
Project Location: <b>Eddy County</b>				Phone #:																							
Sampler Name: <b>Angel O. Pena</b>				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		# CONTAINERS	MATRIX					PRESERV.		SAMPLING															
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME												
<b>H213678</b>				✓			✓						12:20	8:50	✓	✓	✓										
<b>11</b>		<b>B-11</b>		✓			✓						12:20	8:50	✓	✓	✓										
<b>12</b>		<b>B-12</b>		✓			✓						12:20	8:55	✓	✓	✓										
<b>13</b>		<b>B-13</b>		✓			✓						12:20	9:00	✓	✓	✓										
<b>14</b>		<b>B-14</b>		✓			✓						12:20	9:05	✓	✓	✓										
<b>15</b>		<b>B-15</b>		✓			✓						12:20	9:10	✓	✓	✓										
<b>16</b>		<b>B-16</b>		✓			✓						12:20	9:15	✓	✓	✓										
<b>17</b>		<b>B-17</b>		✓			✓						12:20	9:20	✓	✓	✓										
<b>18</b>		<b>B-18</b>		✓			✓						12:20	9:25	✓	✓	✓										
<b>19</b>		<b>B-19</b>		✓			✓						12:20	9:30	✓	✓	✓										
<b>20</b>		<b>B-20</b>		✓			✓						12:20	9:35	✓	✓	✓										
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																											
Relinquished By: 				Date: <b>12-21-17</b>		Received By: 				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:															
Relinquished By:				Time: <b>0955</b>		Received By:				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:															
Delivered By: (Circle One) <b>5.6i</b> <b>C-0.5i</b>				Date:		CHECKED BY: (Initials) <b>V.O.</b>				REMARKS:																	
Sampler - UPS - Bus - Other: <b>5.1i #113</b>				Time:		Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>																					



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### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <b>Pima Environmental Services</b> Project Manager: <b>Tom Bynum</b> Address: <b>1601 N Turner St., Suite 500</b> City: <b>Hobbs</b> State: <b>NM</b> Zip: <b>88240</b> Phone #: <b>575-964-7740</b> Fax #: Project #: <b>6129</b> Project Owner: Project Name: <b>White Star Fed Battery</b> Project Location: <b>Eddy County</b> Sampler Name: <b>Angel D. Pena</b>				<b>BILL TO</b>																							
				<b>ANALYSIS REQUEST</b>																							
				P.O. #:		<div style="display: flex; justify-content: space-around; font-size: 2em;"> <div>TPX EXT</div> <div>BTEX</div> <div>Chlorides</div> </div>																					
				Company: <b>SPUR Energy</b>																							
				Attn:																							
				Address:																							
				City:																							
				State: Zip:																							
				Phone #:																							
				Fax #:																							
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
H213678				✓				✓						✓				12:20		9:40		✓		✓		✓	
21		B-21		✓				✓						✓				12:20		9:40		✓		✓		✓	
22		B-22		✓				✓						✓				12:20		9:45		✓		✓		✓	
23		B-23		✓				✓						✓				12:20		9:50		✓		✓		✓	
24		B-24		✓				✓						✓				12:20		9:55		✓		✓		✓	
25		B-25		✓				✓						✓				12:20		10:00		✓		✓		✓	
26		B-26		✓				✓						✓				12:20		10:05		✓		✓		✓	
27		B-27		✓				✓						✓				12:20		10:10		✓		✓		✓	
28		B-28		✓				✓						✓				12:20		10:15		✓		✓		✓	
29		B-29		✓				✓						✓				12:20		10:20		✓		✓		✓	
30		B-30		✓				✓						✓				12:20		10:25		✓		✓		✓	
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Relinquished By: 				Date: <b>12-21-21</b> Time: <b>0955</b>		Received By: 				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:		REMARKS:													
Relinquished By:				Date: Time:		Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:															
Delivered By: (Circle One) <b>5.6c</b> <b>C-0.5c</b>																											





# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Pima Environmental Services				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																					
Project Manager: Tom Bynum				P.O. #:				<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>Company: <i>SPur Energy</i></p> <p>Attn:</p> <p>Address:</p> <p>City:</p> <p>State: Zip:</p> <p>Phone #: Fax #:</p> </div> <div style="width: 65%;"> <p><i>SPur Energy</i></p> <p><i>BTX</i></p> <p><i>Chlorides</i></p> </div> </div>																					
Address: 1601 N Turner St., Suite 500				Company:																									
City: Hobbs State: NM Zip: 88240				Attn:																									
Phone #: 575-964-7740 Fax #:				Address:																									
Project #: 6-24 Project Owner:				City:																									
Project Name: <i>White Star Fed Battery</i>				State: Zip:																									
Project Location: <i>Eddy County</i>				Phone #: Fax #:																									
Sampler Name: <i>Angel O. Peña</i>				Fax #:																									
FOR LAB USE ONLY																													
Lab I.D.	Sample I.D.	(QIRAB OR C)OMP	# CONTAINERS	MATRIX				PRESERV.	SAMPLING																				
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME															
<i>H213678</i>																													
<i>31</i>	<i>B-31</i>	<i>✓</i>				<i>✓</i>				<i>✓</i>			<i>12-20</i>	<i>10:30</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>												
<i>32</i>	<i>B-32</i>	<i>✓</i>											<i>12-20</i>	<i>10:35</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>												
<i>33</i>	<i>B-33</i>	<i>✓</i>											<i>12-20</i>	<i>10:40</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>												
<i>34</i>	<i>B-34</i>	<i>✓</i>											<i>12-20</i>	<i>10:45</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>												
<i>35</i>	<i>B-35</i>	<i>✓</i>											<i>12-20</i>	<i>10:50</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>												
<i>36</i>	<i>B-36</i>	<i>✓</i>											<i>12-20</i>	<i>10:55</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>												
<i>37</i>	<i>B-37</i>	<i>✓</i>											<i>12-20</i>	<i>11:00</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>												
<i>38</i>	<i>B-38</i>	<i>✓</i>											<i>12-20</i>	<i>11:05</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>												
<i>39</i>	<i>B-39</i>	<i>✓</i>											<i>12-20</i>	<i>11:10</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>												
<i>40</i>	<i>B-40</i>	<i>✓</i>											<i>12-20</i>	<i>11:15</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>												

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Relinquished By: <i>[Signature]</i>	Date: <i>12-21-21</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
Delivered By: (Circle One) <i>5.6i</i>	Sample Condition	CHECKED BY: (Initials)		
Sampler - UPS - Bus - Other: <i>5.1i #13</i>	Cool Intact	<i>[Signature]</i>		
	<input type="checkbox"/> Yes <input type="checkbox"/> No			

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Pima Environmental Services				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																	
Project Manager: Tom Bynum				P.O. #:				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPX EXT</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Casperides</div> </div>																	
Address: 1601 N Turner St., Suite 500				Company: <i>Star Energy</i>																					
City: Hobbs State: NM zip: 88240				Attn:																					
Phone #: 575-964-7740 Fax #:				Address:																					
Project #: <i>6-29</i> Project Owner:				City:																					
Project Name: <i>White Star Fed Battery</i>				State: Zip:																					
Project Location: <i>Eddy County</i>				Phone #:																					
Sampler Name: <i>Angel O. Pina</i>				Fax #:																					
FOR LAB USE ONLY						MATRIX		PRESERV		SAMPLING															
Lab I.D.	Sample I.D.	(GRAB OR (COMP. # CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME												
<i>H213678</i>																									
<i>41</i>	<i>13-41</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>							<i>12:20</i>	<i>11:30</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<i>42</i>	<i>13-42</i>	<input checked="" type="checkbox"/>											<i>11:35</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<i>43</i>	<i>SW-1</i>	<input checked="" type="checkbox"/>											<i>11:40</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<i>44</i>	<i>SW-2</i>	<input checked="" type="checkbox"/>											<i>11:45</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<i>45</i>	<i>SW-3</i>	<input checked="" type="checkbox"/>											<i>11:50</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<i>46</i>	<i>SW-4</i>	<input checked="" type="checkbox"/>											<i>11:55</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<i>47</i>	<i>SW-5</i>	<input checked="" type="checkbox"/>											<i>12:00</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<i>48</i>	<i>SW-6</i>	<input checked="" type="checkbox"/>											<i>12:05</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<i>49</i>	<i>SW-7</i>	<input checked="" type="checkbox"/>											<i>12:10</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<i>50</i>		<input checked="" type="checkbox"/>											<i>12:15</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									

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Relinquished By: <i>[Signature]</i>	Date: <i>12-21-17</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) <i>5.60 C-0.50</i>	Time: <i>0955</i>	Time:	REMARKS:	
Sampler - UPS - Bus - Other: <i>5.10 #113</i>	Sample Condition	CHECKED BY: (Initials)		
	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	<i>[Signature]</i>		
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			

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---

January 05, 2022

TOM BYNUM

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: WHITE STAR FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/30/21 10:34.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

PIMA ENVIROMENTAL  
TOM BYNUM  
1601 N TURNER STE. 500  
HOBBS NM, 88240  
Fax To:

Received: 12/30/2021  
Reported: 01/05/2022  
Project Name: WHITE STAR FEDERAL BATTERY  
Project Number: 6-29  
Project Location: SPUR ENERGY - LOCO HILLS

Sampling Date: 12/23/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Celey D. Keene

**Sample ID: B-6 (H213751-01)**

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	01/04/2022	ND	211	106	200	0.684	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	199	99.5	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					
Surrogate: 1-Chlorooctane	92.3 %	66.9-136							
Surrogate: 1-Chlorooctadecane	85.4 %	59.5-142							

**Sample ID: B-42 (H213751-02)**

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	01/04/2022	ND	211	106	200	0.684	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	199	99.5	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					
Surrogate: 1-Chlorooctane	91.5 %	66.9-136							
Surrogate: 1-Chlorooctadecane	84.5 %	59.5-142							

Cardinal Laboratories

\*=Accredited Analyte

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



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### Notes and Definitions

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

Cardinal Laboratories

\*=Accredited Analyte

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

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



**CARDINAL**  
Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

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Relinquished By: <i>Med Rogers</i> Date: <i>12-30-21</i> Time: <i>10:34 A.</i>		Received By: <i>Alyheene</i> Date: _____ Time: _____		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Add'l Fax #: _____ REMARKS:
Relinquished By: _____ Date: _____ Time: _____		Received By: _____ Date: _____ Time: _____		<i>Bill To Spur</i>
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: (Initials) <i>Cash #113</i>		

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**District I**

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

**District II**

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

**District III**

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

**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**

CONDITIONS

Action 94779

**CONDITIONS**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 94779
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	4/20/2022