

Form C-141

Page 6

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2133477894
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: 3/30/2022
 email: bmoulder@spureplic.com Telephone: 713-264-2517

OCD Only

Received by: Robert Hamlet Date: 7/11/2022

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: Robert Hamlet Date: 7/11/2022
 Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced



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

January 4, 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
Grave Digger St Com #3H Water Transfer Line
API No. 30-015-39151
GPS: Latitude 32.60886 Longitude -104.45712
UL "C," Sec. 02, T20S, R25E
Eddy County, NM
NMOCD Ref. No. NAPP2133477894

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 crude oil release that occurred at the Grave Digger St Com #3H Water Transfer Line (Grave Digger). The initial C-141 was submitted on November 30, 2021 (Appendix C). This incident was assigned Incident ID NAPP2133477894, by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Grave Digger is located approximately sixteen (16) miles south of Artesia, NM. This spill site is in Unit C, Section 02, Township 20S, Range 25E Latitude 32.60886 Longitude -104.45712, Eddy County, NM. Figure 1 references a Location Map. Fig

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

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 80 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 121 feet BGS. The closest waterway is a salt playa located approximately 4.32 miles to the southwest 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' (High Karst)	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg
51-100'	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
>100'	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg

Reference Figure 2 for a Topographic map.

Release Information

NAPP2133477894: On November 18, 2021, a water transfer line ruptured. The release impacted the pasture with overspray. Vacuum trucks were immediately dispatched to recover all standing fluids. The released fluids calculated to be approximately 34 barrels (bbls) of produced water. No fluids were able to be recovered.

Site Assessment and Soil Sampling Results

On November 23, 2021, Pima Environmental mobilized personnel to the site to assess the area. We sampled the affected areas outside of the containment and 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.

11-23-21 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC - DTGW is <50'(High Karst)								
Spur Energy - Grave Digger St Com #3H								
Date 11/23/2021		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	Cl mg/kg
S 1	0-6"	1.36	0.164	ND	299	191	490	6330
	2'	ND	ND	ND	ND	ND	0	11100
	4'	ND	ND	ND	28.4	ND	28.4	2650
S 2	0-6"	0.851	0.232	ND	2630	2020	4650	9690
	2'	0.112	ND	ND	39.6	ND	39.6	6580
	4'	ND	ND	ND	ND	ND	0	1200
S 3	0-6"	0.982	0.594	ND	26400	13300	39700	7420
	2'	ND	ND	ND	59.5	ND	59.5	7180
	4'	ND	ND	ND	ND	ND	0	1460
S 4	0-6"	0.2	ND	ND	1450	889	2339	6150
	2'	ND	ND	ND	151	72.1	223.1	7180
	4'	ND	ND	ND	ND	ND	0	858
SW 1	0-6"	ND	ND	ND	241	576	817	26.1
SW 2	0-6"	ND	ND	ND	210	564	774	26.1
SW 3	0-6"	ND	ND	ND	210	544	754	22.9
SW 4	0-6"	ND	ND	ND	201	525	726	33.7
SW 5	0-6"	ND	ND	ND	226	540	766	26.5

ND- Analyte Not Detected

On December 9, 2021, Pima Environmental personnel returned to the site to further delineate the contaminated areas utilizing the Geoprobe. Laboratory results of these sampling events can be found in the following data table.

12-9-21 Boring Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC - DTGW is <50'(High Karst)								
Spur Energy - Grave Digger St Com #3H								
12/9/2021		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
B 1	6'	ND	ND	ND	ND	ND	0	ND
B 2	5'	ND	ND	ND	ND	ND	0	ND
B 3	5'	ND	ND	ND	ND	ND	0	ND
B 4	5'	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

Remediation Activities

On December 27, 2021, Pima mobilized personnel and equipment to conduct remedial activities. We excavated the contaminated areas to various depths BGS. Bottom and sidewall composite samples were obtained to ensure that the horizontal and vertical extents of the contamination had been removed.

On December 31, 2021, after sending a 48-hour notification (Appendix C), Pima returned to the site to collect official confirmation samples of the excavated area. The results of this sampling event can be found in the following table.

12-31-21 Confirmation Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC - DTGW is <50'(High Karst)								
Spur Energy - Grave Digger St Com #3H								
Date 12/31/2021		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-1	6'	ND	ND	ND	ND	ND	0	320
B-2	6'	ND	ND	ND	ND	ND	0	288
B-3	6'	ND	ND	ND	ND	ND	0	48
B-4	5'	ND	ND	ND	ND	ND	0	304
B-5	5'	ND	ND	ND	ND	ND	0	304
B-6	5'	ND	ND	ND	ND	ND	0	400
B-7	5'	ND	ND	ND	ND	ND	0	480
B-8	5'	ND	ND	ND	ND	ND	0	272
B-9	5'	ND	ND	ND	ND	ND	0	624
B-10	5'	ND	ND	ND	ND	ND	0	416
B-11	5'	ND	ND	ND	ND	ND	0	288
B-12	5'	ND	ND	ND	ND	ND	0	304
SW-1	6'	ND	ND	ND	ND	ND	0	112
SW-2	6'	ND	ND	ND	ND	ND	0	112
SW-3	5'	ND	ND	ND	ND	ND	0	96
SW-4	5'	ND	ND	ND	ND	ND	0	96
SW-5	5'	ND	ND	ND	ND	ND	0	96
SW-6	5'	ND	ND	ND	ND	ND	0	128

ND- Analyte Not Detected

On January 6, 2022, Pima returned to the site to further excavate the area around sample point B-9. We excavated one more foot of soil from an area that measured approximately 200 square feet. Then we collected a confirmation sample from the new depth. The results of this sampling event can be found in the following table.

1-6-2022 Confirmation Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC - DTGW is <50'(High Karst)								
Spur Energy - Grave Digger St Com #3H								
Date 1/6/2022		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
B-9	6'	--	--	--	--	--		96

ND – Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

Based on the sample results, the bottom and sidewalls were below NMOCD Closure Criteria 19.15.29 NMAC. The contaminated material was transported to Lea Land, an NMOCD approved disposal site. The excavation was then backfilled with clean like material, machine compacted and contoured to match the surrounding terrain. See Appendix D for photographic documentation. A Confirmation Sample Map can be found in Figure 5.

Closure Request

After careful review, Pima requests that this incident, NAPP2133477894 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- Confirmation Sample Map

Appendices:

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



Pima Environmental Services

Figures:

1-Location Map

2-Topo Map

3-Karst Map


4-Site Map

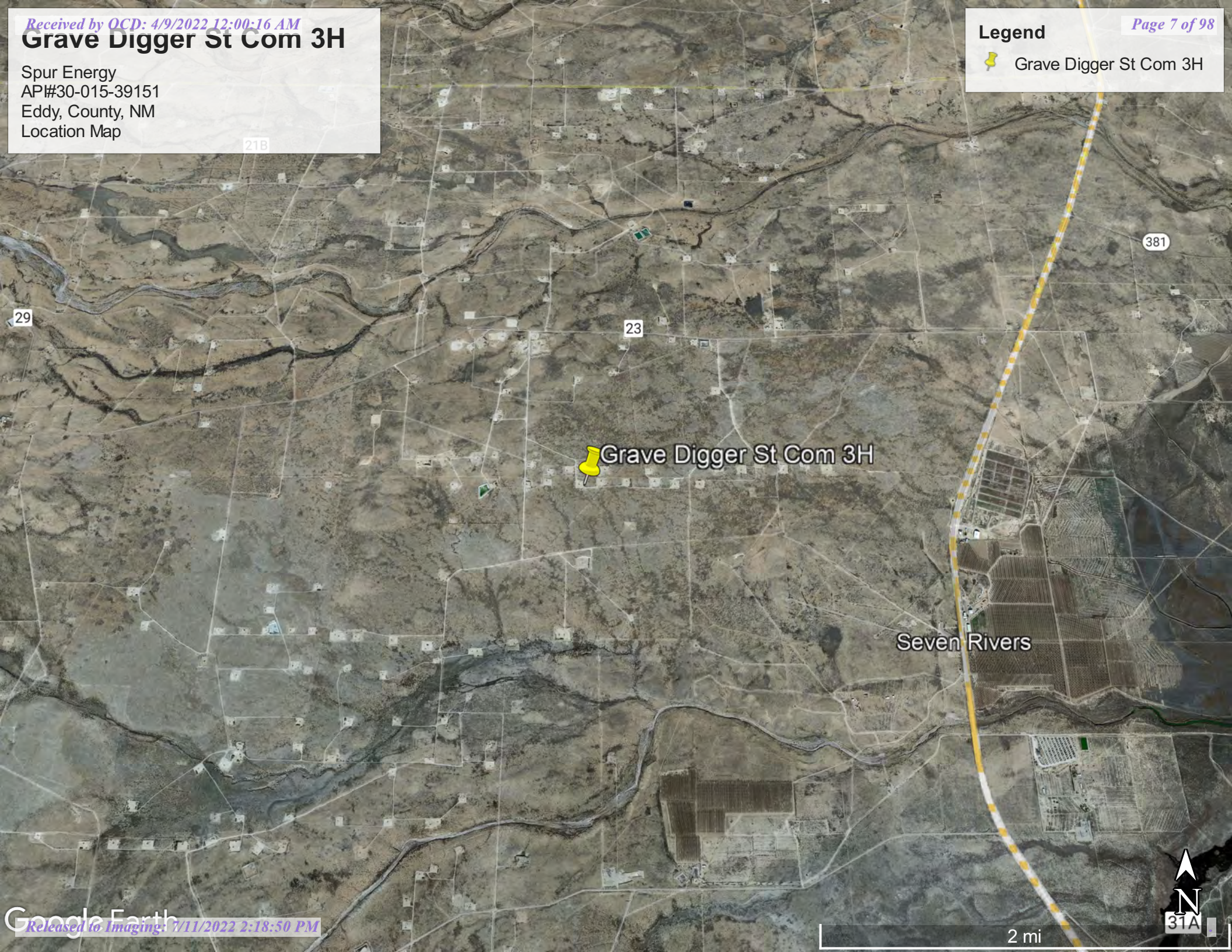
5-Confirmation Sample Map

Grave Digger St Com 3H

Spur Energy
API#30-015-39151
Eddy, County, NM
Location Map

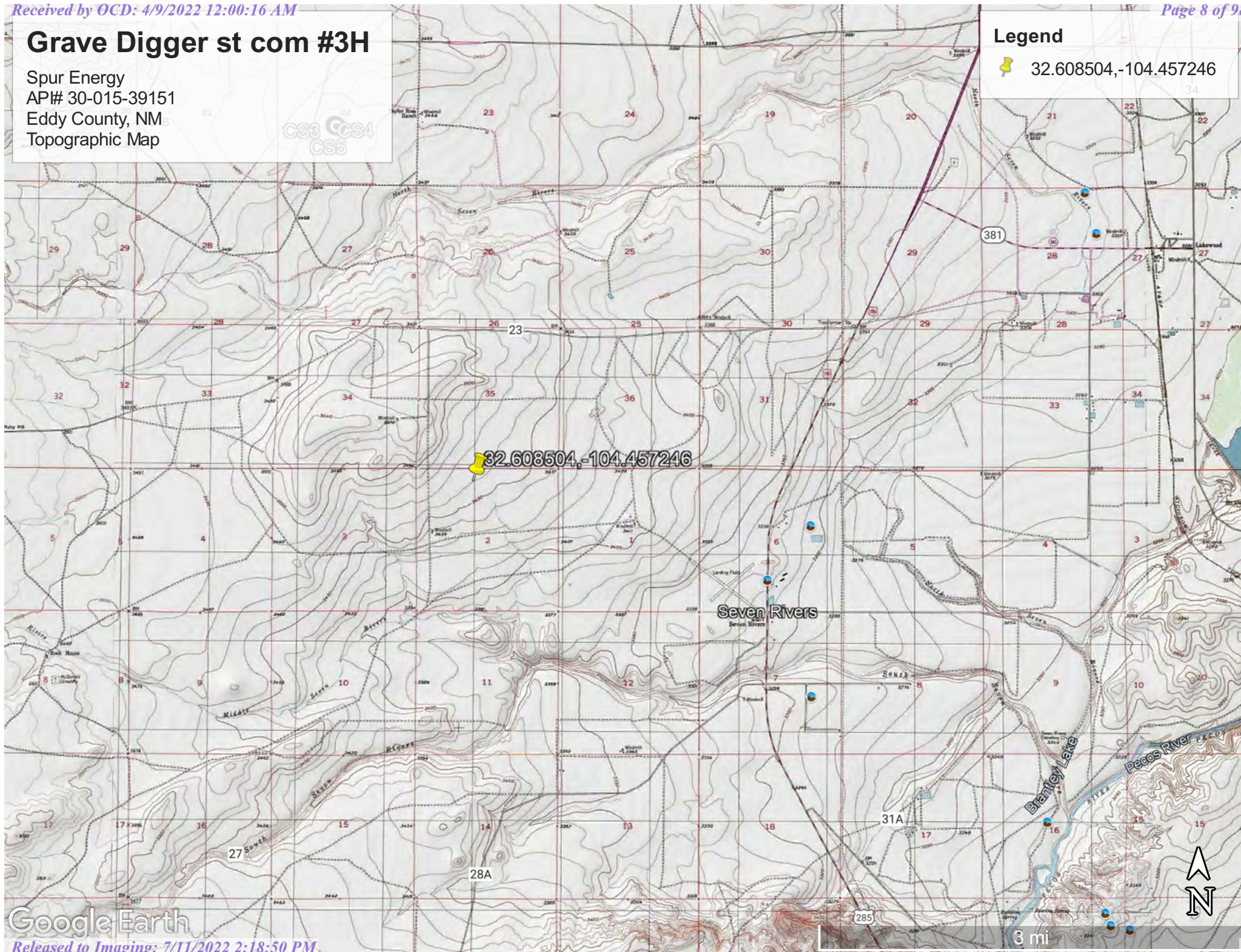
Legend

 Grave Digger St Com 3H



Spur Energy
API# 30-015-39151
Eddy County, NM
Topographic Map





 32.608504,-104.457246

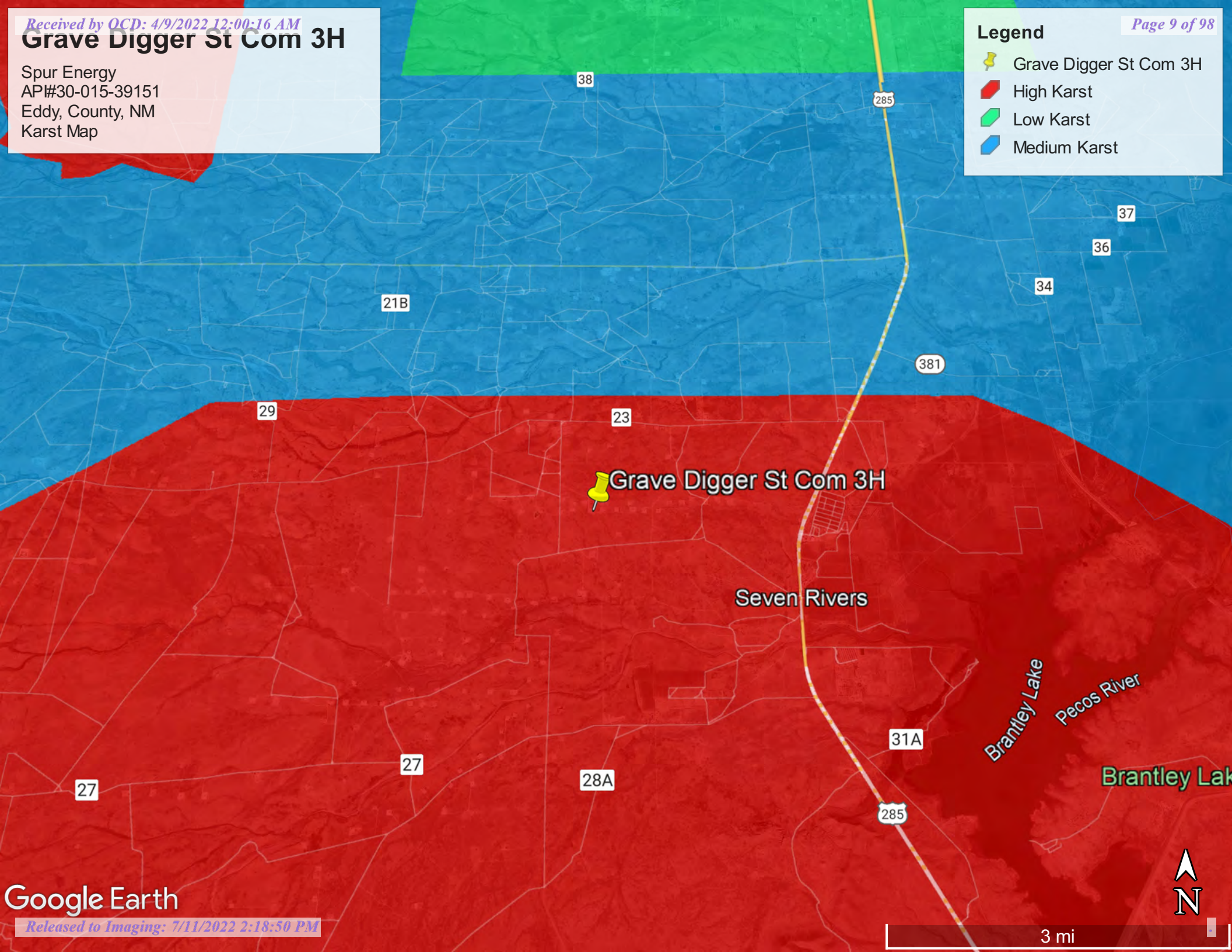


Grave Digger St Com 3H

Spur Energy
API#30-015-39151
Eddy, County, NM
Karst Map

Legend

-  Grave Digger St Com 3H
-  High Karst
-  Low Karst
-  Medium Karst

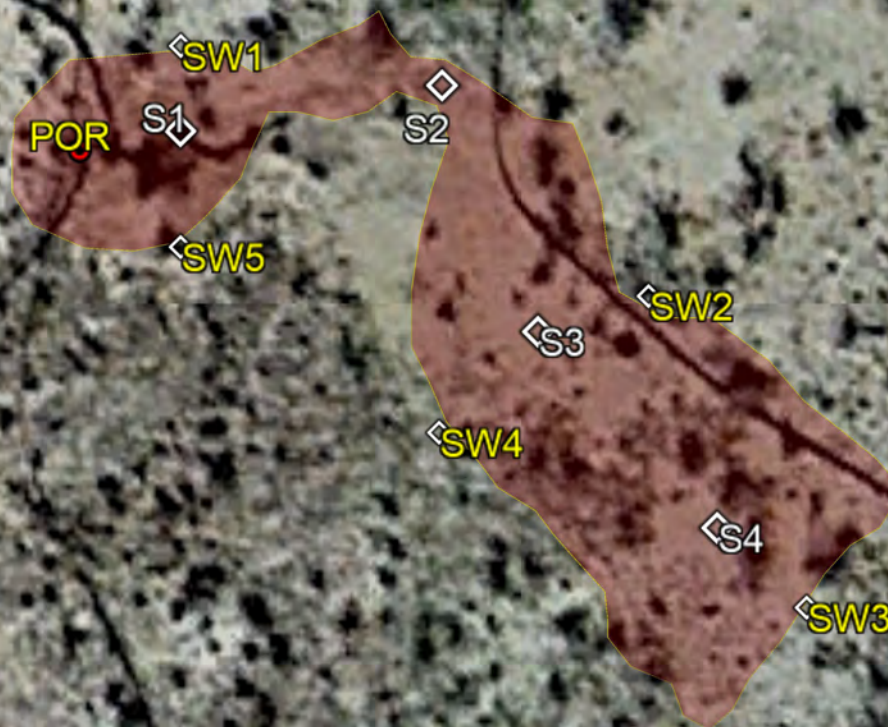


Grave Digger St Com #3H (32.608504, -104.457246)

Spur Energy
API#30-015-39151
Eddy County, NM
Site Map

Legend [Page 10 of 98](#)

- Point of Release
- Soil Samples
- Spill Area

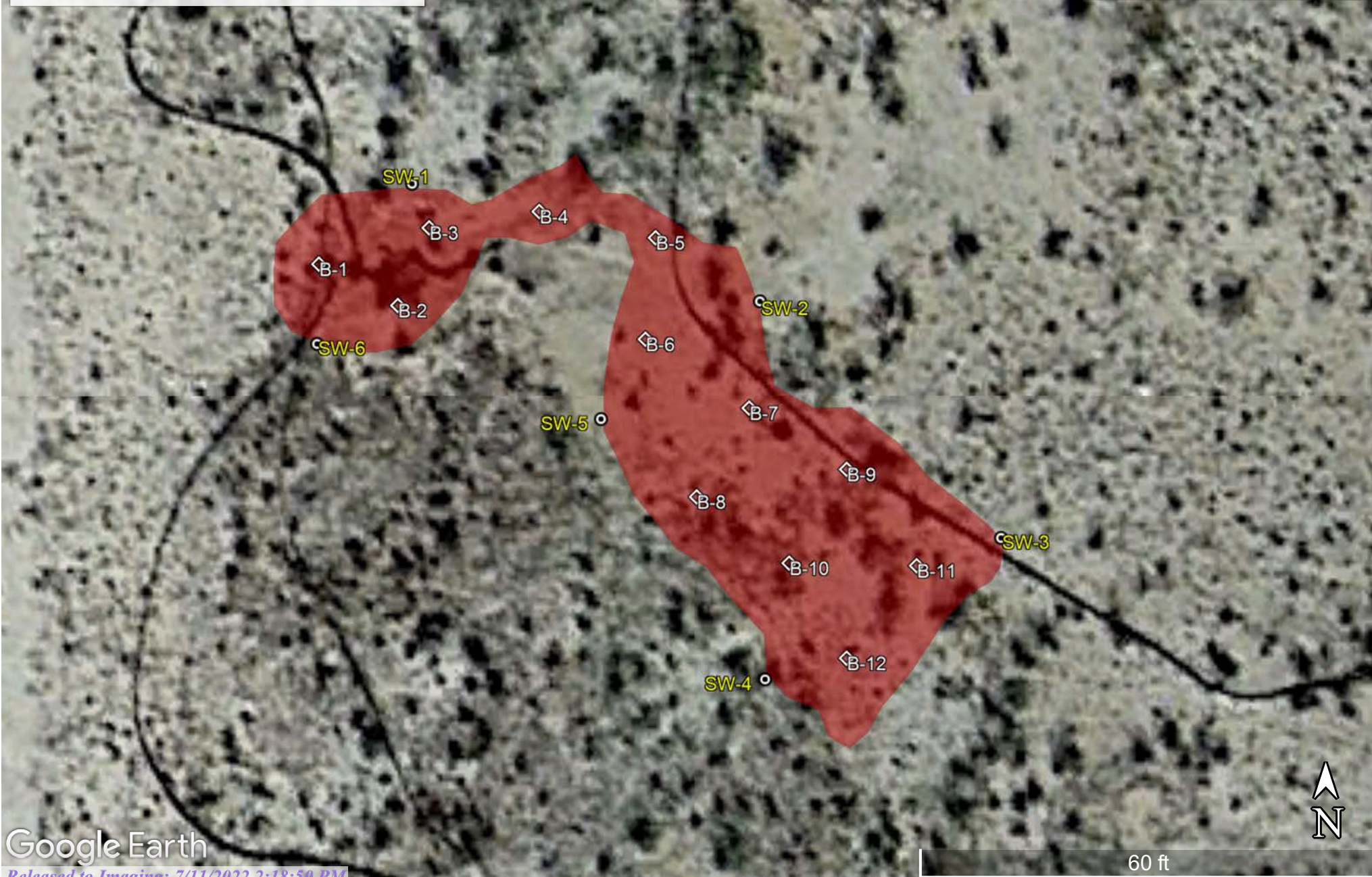


Grave Digger St Com 3H

Spur Energy
API #30-015-39151
Eddy County, NM
Confirmation Sample Map

Legend

- Bottom Confirmations
- Excavated Area
- Sidewall Confirmations





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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
RA 03018		RA	ED	3	2	4	34	19S	25E	549987	3608639*	1126	530		
RA 02958		RA	ED		1	4	34	19S	25E	549681	3608740*	1439	450		
RA 10898 POD1		RA	ED	2	1	3	01	20S	25E	552198	3607248*	1486	810	121	689
RA 05458		RA	ED		3	3	01	20S	25E	552101	3606747*	1729	500	95	405
RA 10817		RA	ED	1	1	1	12	20S	25E	552002	3606443*	1906	743	102	641
RA 10779		RA	ED	1	3	2	10	20S	25E	549580	3606026*	2402	1300		
RA 10496		RA	ED	3	3	4	25	19S	25E	552801	3609865*	2633	110	40	70
RA 10918 POD1		RA	ED	3	2	4	11	20S	25E	551600	3605434*	2668	694	70	624
RA 10818		RA	ED	1	3	2	12	20S	25E	552807	3606039*	2729	692	72	620
RA 10155		RA	ED	4	3	4	25	19S	25E	553001	3609865*	2779	225	60	165
RA 01952		RA	ED	3	1	3	12	20S	25E	552005	3605437*	2796			

Average Depth to Water: **80 feet**

Minimum Depth: **40 feet**

Maximum Depth: **121 feet**

Record Count: 11

UTMNAD83 Radius Search (in meters):

Easting (X): 550925.75

Northing (Y): 3608016.41

Radius: 3000

*UTM location was derived from PLSS - see Help

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

12/6/21 6:20 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater



Geographic Area:

United States



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- [Full News](#)

Groundwater levels for the Nation



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

Search Results -- 1 sites found

site_no list =

- 323613104260901

Minimum number of levels = 1

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

USGS 323613104260901 20S.25E.01.233121

Available data for this site

Groundwater: Field measurements



GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°36'13", Longitude 104°26'09" NAD27

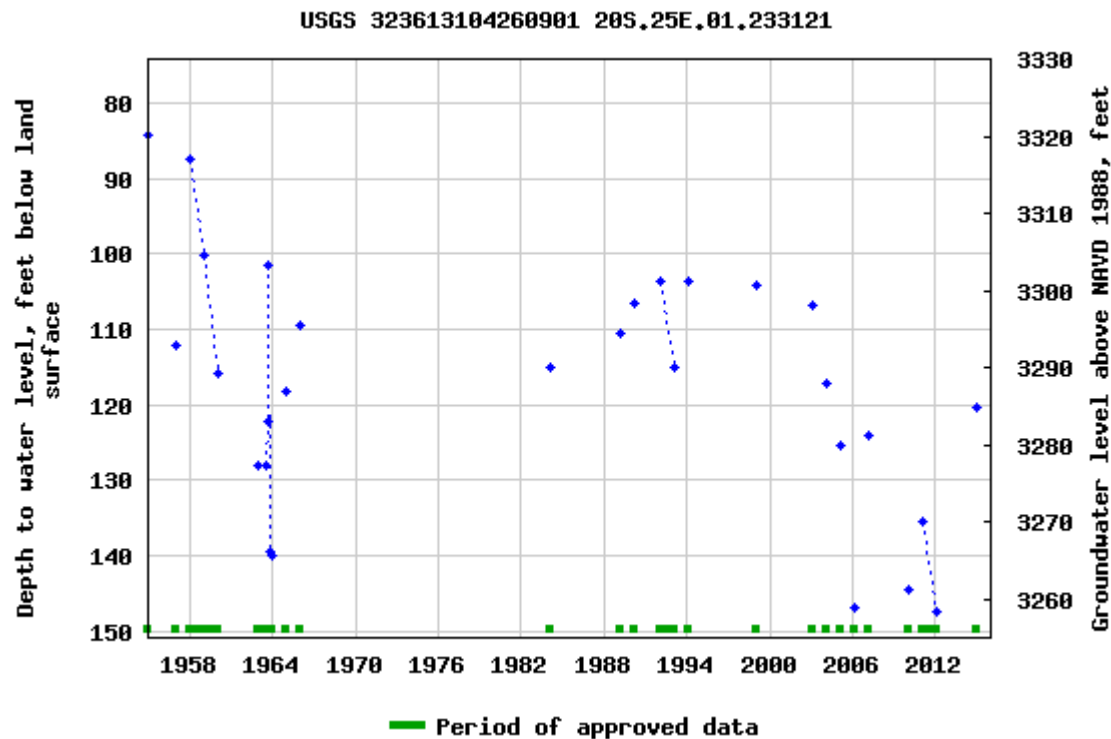
Land-surface elevation 3,405 feet above NAVD88

The depth of the well is 200 feet below land surface.

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

This well is completed in the Artesia Group (313ARTS) 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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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater




Geographic Area:

United States



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Groundwater levels for the Nation



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

Search Results -- 1 sites found

site_no list =

- 323553104255601

Minimum number of levels = 1

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

USGS 323553104255601 20S.25E.01.44111

Available data for this site

Groundwater: Field measurements



GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°35'53", Longitude 104°25'56" NAD27

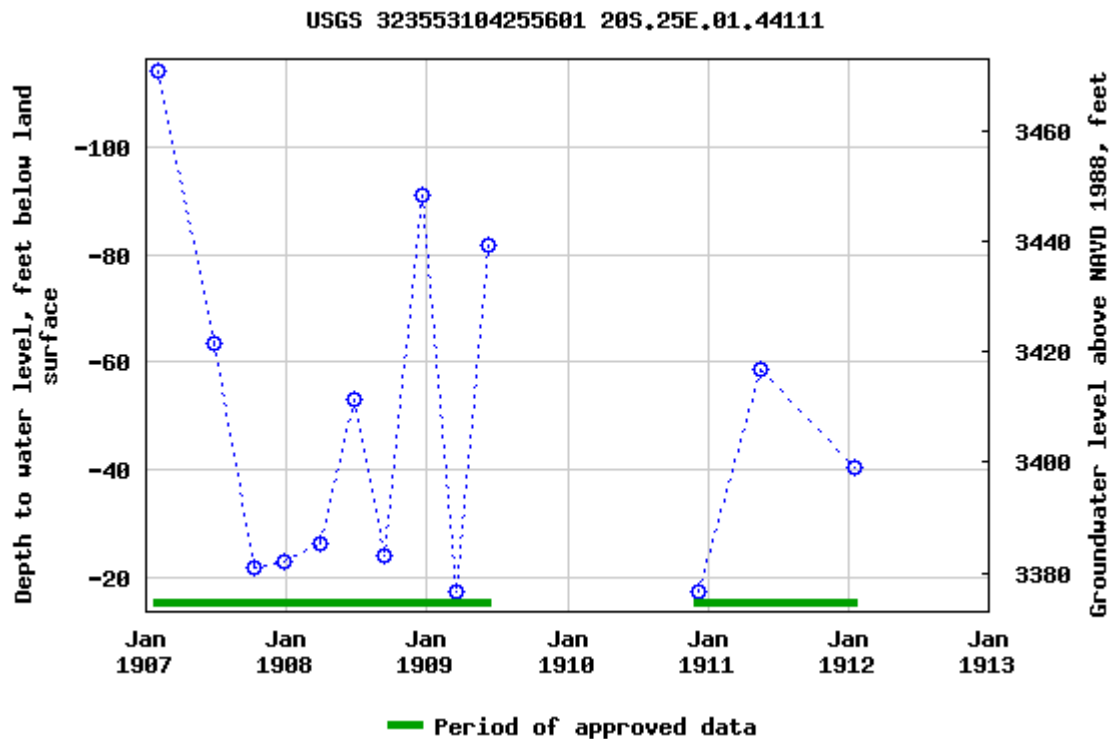
Land-surface elevation 3,358 feet above NAVD88

The depth of the well is 525 feet below land surface.

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

This well is completed in the Rustler Formation (312RSLR) 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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Grave Digger st com 3H

Spur Energy
API# 30-015-39151
Eddy County, NM
Surface Warer Map

Legend

-  32.7140876,-104.4024794
-  4.32 Miles

 32.608504,-104.457246

Seven Rivers

32A

31A

Brantley Lake

Google Earth

1 mi





Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Map Unit Description: Reeves-Gypsum land complex, 0 to 3 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5f
Elevation: 1,250 to 5,000 feet
Mean annual precipitation: 10 to 25 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 190 to 235 days
Farmland classification: Not prime farmland

Map Unit Composition

Reeves and similar soils: 55 percent
Gypsum land: 30 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reeves

Setting

Landform: Ridges, plains, hills
Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope
Landform position (three-dimensional): Side slope, crest, nose slope, head slope
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 32 inches: clay loam
H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 25 percent
Gypsum, maximum content: 80 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Low (about 4.3 inches)

Map Unit Description: Reeves-Gypsum land complex, 0 to 3 percent slopes---Eddy Area, New Mexico

Interpretive groups

Land capability classification (irrigated): 3s

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: B

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

Description of Gypsum Land**Setting**

Landform: Ridges, plains, hills

Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope

Landform position (three-dimensional): Side slope, crest, nose slope, head slope

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

Hydric soil rating: No

Minor Components**Largo**

Percent of map unit: 5 percent

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

Cottonwood

Percent of map unit: 5 percent

Ecological site: R042XC033NM - Salty Bottomland

Hydric soil rating: No

Reagan

Percent of map unit: 5 percent

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 17, Sep 12, 2021

National Flood Hazard Layer FIRMette



104°27'44"W 32°36'47"N



Legend

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

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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/22/2021 at 11:28 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

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


Cause of Release

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: _____	Title: _____
Signature:  _____	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>12/02/2021</u>

Incident ID	nAPP2133477894
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?	<u>40</u> (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 not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

Form C-141

Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2133477894
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: 3/30/2022email: 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	nAPP2133477894
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: 3/30/2022
 email: bmoulder@spureplic.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: _____ Date: _____

Printed Name: _____ Title: _____

From: [Tom Bynum](#)
To: ["ocdonline@state.nm.us"](mailto:ocdonline@state.nm.us)
Cc: ["gjo@pimaoil.com"](mailto:gjo@pimaoil.com)
Subject: 48-Hour Notification - NAPP2133477894
Date: Wednesday, December 29, 2021 3:16:00 PM

Good afternoon,
Pima Environmental would like to notify you that we will be collecting confirmation samples at the Grave Digger State Com #003H Water Transfer Line for incident NAPP2133477894. Pima personnel is scheduled to be on site for this sampling event at approximately 1:00 p.m. on Friday, December 31st, 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



GRAVEDIGGER STATE COM #3H







Pima Environmental Services

Appendix E

Laboratory Reports

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Grave Digger St Com 3H

Work Order: E111141

Job Number: 21064-0001

Received: 11/24/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/2/21

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 12/2/21

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Grave Digger St Com 3H
Workorder: E111141
Date Received: 11/24/2021 12:00:00PM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/24/2021 12:00:00PM, under the Project Name: Grave Digger St Com 3H.

The analytical test results summarized in this report with the Project Name: Grave Digger St Com 3H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Grave Digger St Com 3H	Reported:
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	12/02/21 16:34

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1-Surface	E111141-01A	Soil	11/23/21	11/24/21	Glass Jar, 4 oz.
S1-2'	E111141-02A	Soil	11/23/21	11/24/21	Glass Jar, 4 oz.
S1-4'	E111141-03A	Soil	11/23/21	11/24/21	Glass Jar, 4 oz.
S2-Surface	E111141-04A	Soil	11/23/21	11/24/21	Glass Jar, 4 oz.
S2-2'	E111141-05A	Soil	11/23/21	11/24/21	Glass Jar, 4 oz.
S2-4'	E111141-06A	Soil	11/23/21	11/24/21	Glass Jar, 4 oz.
S3-Surface	E111141-07A	Soil	11/23/21	11/24/21	Glass Jar, 4 oz.
S3-2'	E111141-08A	Soil	11/23/21	11/24/21	Glass Jar, 4 oz.
S3-4'	E111141-09A	Soil	11/23/21	11/24/21	Glass Jar, 4 oz.
S4-Surface	E111141-10A	Soil	11/23/21	11/24/21	Glass Jar, 4 oz.
S4-2'	E111141-11A	Soil	11/23/21	11/24/21	Glass Jar, 4 oz.
S4-4'	E111141-12A	Soil	11/23/21	11/24/21	Glass Jar, 4 oz.
SW1	E111141-13A	Soil	11/23/21	11/24/21	Glass Jar, 4 oz.
SW2	E111141-14A	Soil	11/23/21	11/24/21	Glass Jar, 4 oz.
SW3	E111141-15A	Soil	11/23/21	11/24/21	Glass Jar, 4 oz.
SW4	E111141-16A	Soil	11/23/21	11/24/21	Glass Jar, 4 oz.
SW5	E111141-17A	Soil	11/23/21	11/24/21	Glass Jar, 4 oz.



Sample Data

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

Project Name: Grave Digger St Com 3H
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
12/2/2021 4:34:39PM

S1-Surface

E111141-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Benzene	0.164	0.0250	1	11/24/21	12/01/21	
Ethylbenzene	0.434	0.0250	1	11/24/21	12/01/21	
Toluene	0.377	0.0250	1	11/24/21	12/01/21	
o-Xylene	0.411	0.0250	1	11/24/21	12/01/21	
p,m-Xylene	0.949	0.0500	1	11/24/21	12/01/21	
Total Xylenes	1.36	0.0250	1	11/24/21	12/01/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/24/21	12/01/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.5 %	70-130	11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2149037
Diesel Range Organics (C10-C28)	299	25.0	1	12/02/21	12/02/21	
Oil Range Organics (C28-C36)	191	50.0	1	12/02/21	12/02/21	
<i>Surrogate: n-Nonane</i>						
		107 %	50-200	12/02/21	12/02/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2148028
Chloride	6330	400	20	11/24/21	11/29/21	



Sample Data

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

Project Name: Grave Digger St Com 3H
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
12/2/2021 4:34:39PM

S1-2'

E111141-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Benzene	ND	0.0250	1	11/24/21	12/01/21	
Ethylbenzene	ND	0.0250	1	11/24/21	12/01/21	
Toluene	ND	0.0250	1	11/24/21	12/01/21	
o-Xylene	ND	0.0250	1	11/24/21	12/01/21	
p,m-Xylene	ND	0.0500	1	11/24/21	12/01/21	
Total Xylenes	ND	0.0250	1	11/24/21	12/01/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/24/21	12/01/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.7 %	70-130	11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2148029
Diesel Range Organics (C10-C28)	ND	25.0	1	11/24/21	11/29/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/24/21	11/29/21	
<i>Surrogate: n-Nonane</i>						
		119 %	50-200	11/24/21	11/29/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2148028
Chloride	11100	1000	50	11/24/21	11/29/21	



Sample Data

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

Project Name: Grave Digger St Com 3H
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
12/2/2021 4:34:39PM

S1-4'

E111141-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Benzene	ND	0.0250	1	11/24/21	12/01/21	
Ethylbenzene	ND	0.0250	1	11/24/21	12/01/21	
Toluene	ND	0.0250	1	11/24/21	12/01/21	
o-Xylene	ND	0.0250	1	11/24/21	12/01/21	
p,m-Xylene	ND	0.0500	1	11/24/21	12/01/21	
Total Xylenes	ND	0.0250	1	11/24/21	12/01/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/24/21	12/01/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.8 %	70-130	11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2148029
Diesel Range Organics (C10-C28)	28.4	25.0	1	11/24/21	11/29/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/24/21	11/29/21	
<i>Surrogate: n-Nonane</i>						
		123 %	50-200	11/24/21	11/29/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2148028
Chloride	2650	1000	50	11/24/21	11/29/21	



Sample Data

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

Project Name: Grave Digger St Com 3H
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
12/2/2021 4:34:39PM

S2-Surface

E111141-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Benzene	0.232	0.0250	1	11/24/21	12/01/21	
Ethylbenzene	0.271	0.0250	1	11/24/21	12/01/21	
Toluene	0.542	0.0250	1	11/24/21	12/01/21	
o-Xylene	0.317	0.0250	1	11/24/21	12/01/21	
p,m-Xylene	0.535	0.0500	1	11/24/21	12/01/21	
Total Xylenes	0.851	0.0250	1	11/24/21	12/01/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/24/21	12/01/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.6 %	70-130	11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2149037
Diesel Range Organics (C10-C28)	2630	25.0	1	12/02/21	12/02/21	
Oil Range Organics (C28-C36)	2020	50.0	1	12/02/21	12/02/21	
<i>Surrogate: n-Nonane</i>						
		122 %	50-200	12/02/21	12/02/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2148028
Chloride	9690	400	20	11/24/21	11/29/21	



Sample Data

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

Project Name: Grave Digger St Com 3H
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
12/2/2021 4:34:39PM

S2-2'

E111141-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Benzene	ND	0.0250	1	11/24/21	12/01/21	
Ethylbenzene	ND	0.0250	1	11/24/21	12/01/21	
Toluene	ND	0.0250	1	11/24/21	12/01/21	
o-Xylene	0.0429	0.0250	1	11/24/21	12/01/21	
p,m-Xylene	0.0689	0.0500	1	11/24/21	12/01/21	
Total Xylenes	0.112	0.0250	1	11/24/21	12/01/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/24/21	12/01/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.6 %	70-130	11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2148029
Diesel Range Organics (C10-C28)	39.6	25.0	1	11/24/21	11/30/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/24/21	11/30/21	
<i>Surrogate: n-Nonane</i>						
		120 %	50-200	11/24/21	11/30/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2148028
Chloride	6580	1000	50	11/24/21	11/29/21	



Sample Data

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

Project Name: Grave Digger St Com 3H
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
12/2/2021 4:34:39PM

S2-4'

E111141-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Benzene	ND	0.0250	1	11/24/21	12/01/21	
Ethylbenzene	ND	0.0250	1	11/24/21	12/01/21	
Toluene	ND	0.0250	1	11/24/21	12/01/21	
o-Xylene	ND	0.0250	1	11/24/21	12/01/21	
p,m-Xylene	ND	0.0500	1	11/24/21	12/01/21	
Total Xylenes	ND	0.0250	1	11/24/21	12/01/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/24/21	12/01/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.2 %	70-130	11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2148029
Diesel Range Organics (C10-C28)	ND	25.0	1	11/24/21	11/30/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/24/21	11/30/21	
<i>Surrogate: n-Nonane</i>						
		119 %	50-200	11/24/21	11/30/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2148028
Chloride	1200	400	20	11/24/21	11/29/21	



Sample Data

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

Project Name: Grave Digger St Com 3H
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
12/2/2021 4:34:39PM

S3-Surface

E111141-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Benzene	0.594	0.0250	1	11/24/21	12/01/21	
Ethylbenzene	0.314	0.0250	1	11/24/21	12/01/21	
Toluene	0.779	0.0250	1	11/24/21	12/01/21	
o-Xylene	0.378	0.0250	1	11/24/21	12/01/21	
p,m-Xylene	0.604	0.0500	1	11/24/21	12/01/21	
Total Xylenes	0.982	0.0250	1	11/24/21	12/01/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/24/21	12/01/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.7 %	70-130	11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2149037
Diesel Range Organics (C10-C28)	26400	500	20	12/02/21	12/02/21	
Oil Range Organics (C28-C36)	13300	1000	20	12/02/21	12/02/21	
<i>Surrogate: n-Nonane</i>						
		170 %	50-200	12/02/21	12/02/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2148028
Chloride	7420	400	20	11/24/21	11/29/21	



Sample Data

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

Project Name: Grave Digger St Com 3H
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
12/2/2021 4:34:39PM

S3-2'

E111141-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Benzene	ND	0.0250	1	11/24/21	12/01/21	
Ethylbenzene	ND	0.0250	1	11/24/21	12/01/21	
Toluene	ND	0.0250	1	11/24/21	12/01/21	
o-Xylene	ND	0.0250	1	11/24/21	12/01/21	
p,m-Xylene	ND	0.0500	1	11/24/21	12/01/21	
Total Xylenes	ND	0.0250	1	11/24/21	12/01/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/24/21	12/01/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.6 %	70-130	11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2148029
Diesel Range Organics (C10-C28)	59.5	25.0	1	11/24/21	11/30/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/24/21	11/30/21	
<i>Surrogate: n-Nonane</i>						
		118 %	50-200	11/24/21	11/30/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2148028
Chloride	7180	1000	50	11/24/21	11/29/21	



Sample Data

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

Project Name: Grave Digger St Com 3H
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
12/2/2021 4:34:39PM

S3-4'

E111141-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Benzene	ND	0.0250	1	11/24/21	12/01/21	
Ethylbenzene	ND	0.0250	1	11/24/21	12/01/21	
Toluene	ND	0.0250	1	11/24/21	12/01/21	
o-Xylene	ND	0.0250	1	11/24/21	12/01/21	
p,m-Xylene	ND	0.0500	1	11/24/21	12/01/21	
Total Xylenes	ND	0.0250	1	11/24/21	12/01/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/24/21	12/01/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.6 %	70-130	11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2148029
Diesel Range Organics (C10-C28)	ND	25.0	1	11/24/21	11/30/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/24/21	11/30/21	
<i>Surrogate: n-Nonane</i>						
		125 %	50-200	11/24/21	11/30/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2148028
Chloride	1460	400	20	11/24/21	11/29/21	



Sample Data

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

Project Name: Grave Digger St Com 3H
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
12/2/2021 4:34:39PM

S4-Surface

E111141-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Benzene	ND	0.0250	1	11/24/21	12/01/21	
Ethylbenzene	0.0253	0.0250	1	11/24/21	12/01/21	
Toluene	0.0576	0.0250	1	11/24/21	12/01/21	
o-Xylene	0.0649	0.0250	1	11/24/21	12/01/21	
p,m-Xylene	0.135	0.0500	1	11/24/21	12/01/21	
Total Xylenes	0.200	0.0250	1	11/24/21	12/01/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/24/21	12/01/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.7 %	70-130	11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2149037
Diesel Range Organics (C10-C28)	1450	50.0	2	12/02/21	12/02/21	
Oil Range Organics (C28-C36)	889	100	2	12/02/21	12/02/21	
<i>Surrogate: n-Nonane</i>						
		164 %	50-200	12/02/21	12/02/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2148028
Chloride	6150	400	20	11/24/21	11/29/21	



Sample Data

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

Project Name: Grave Digger St Com 3H
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
12/2/2021 4:34:39PM

S4-2'

E111141-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Benzene	ND	0.0250	1	11/24/21	12/01/21	
Ethylbenzene	ND	0.0250	1	11/24/21	12/01/21	
Toluene	ND	0.0250	1	11/24/21	12/01/21	
o-Xylene	ND	0.0250	1	11/24/21	12/01/21	
p,m-Xylene	ND	0.0500	1	11/24/21	12/01/21	
Total Xylenes	ND	0.0250	1	11/24/21	12/01/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/24/21	12/01/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.3 %	70-130	11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2148029
Diesel Range Organics (C10-C28)	151	25.0	1	11/24/21	11/30/21	
Oil Range Organics (C28-C36)	72.1	50.0	1	11/24/21	11/30/21	
<i>Surrogate: n-Nonane</i>						
		110 %	50-200	11/24/21	11/30/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2148028
Chloride	7180	1000	50	11/24/21	11/29/21	



Sample Data

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

Project Name: Grave Digger St Com 3H
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
12/2/2021 4:34:39PM

S4-4'

E111141-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Benzene	ND	0.0250	1	11/24/21	12/01/21	
Ethylbenzene	ND	0.0250	1	11/24/21	12/01/21	
Toluene	ND	0.0250	1	11/24/21	12/01/21	
o-Xylene	ND	0.0250	1	11/24/21	12/01/21	
p,m-Xylene	ND	0.0500	1	11/24/21	12/01/21	
Total Xylenes	ND	0.0250	1	11/24/21	12/01/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.3 %	70-130		11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/24/21	12/01/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.7 %	70-130		11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2148029
Diesel Range Organics (C10-C28)	ND	25.0	1	11/24/21	11/30/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/24/21	11/30/21	
<i>Surrogate: n-Nonane</i>						
	121 %	50-200		11/24/21	11/30/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2148028
Chloride	858	400	20	11/24/21	11/29/21	



Sample Data

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

Project Name: Grave Digger St Com 3H
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
12/2/2021 4:34:39PM

SW1

E111141-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Benzene	ND	0.0250	1	11/24/21	12/01/21	
Ethylbenzene	ND	0.0250	1	11/24/21	12/01/21	
Toluene	ND	0.0250	1	11/24/21	12/01/21	
o-Xylene	ND	0.0250	1	11/24/21	12/01/21	
p,m-Xylene	ND	0.0500	1	11/24/21	12/01/21	
Total Xylenes	ND	0.0250	1	11/24/21	12/01/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.9 %	70-130		11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/24/21	12/01/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.2 %	70-130		11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2149037
Diesel Range Organics (C10-C28)	241	25.0	1	12/02/21	12/02/21	
Oil Range Organics (C28-C36)	576	50.0	1	12/02/21	12/02/21	
<i>Surrogate: n-Nonane</i>						
	160 %	50-200		12/02/21	12/02/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2148028
Chloride	26.1	20.0	1	11/24/21	11/29/21	



Sample Data

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

Project Name: Grave Digger St Com 3H
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
12/2/2021 4:34:39PM

SW2

E111141-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Benzene	ND	0.0250	1	11/24/21	12/01/21	
Ethylbenzene	ND	0.0250	1	11/24/21	12/01/21	
Toluene	ND	0.0250	1	11/24/21	12/01/21	
o-Xylene	ND	0.0250	1	11/24/21	12/01/21	
p,m-Xylene	ND	0.0500	1	11/24/21	12/01/21	
Total Xylenes	ND	0.0250	1	11/24/21	12/01/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.6 %	70-130		11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/24/21	12/01/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2149037
Diesel Range Organics (C10-C28)	210	25.0	1	12/02/21	12/02/21	
Oil Range Organics (C28-C36)	564	50.0	1	12/02/21	12/02/21	
<i>Surrogate: n-Nonane</i>						
	150 %	50-200		12/02/21	12/02/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2148028
Chloride	26.1	20.0	1	11/24/21	11/29/21	



Sample Data

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

Project Name: Grave Digger St Com 3H
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
12/2/2021 4:34:39PM

SW3

E111141-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2148027	
Benzene	ND	0.0250	1	11/24/21	12/01/21	
Ethylbenzene	ND	0.0250	1	11/24/21	12/01/21	
Toluene	ND	0.0250	1	11/24/21	12/01/21	
o-Xylene	ND	0.0250	1	11/24/21	12/01/21	
p,m-Xylene	ND	0.0500	1	11/24/21	12/01/21	
Total Xylenes	ND	0.0250	1	11/24/21	12/01/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2148027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/24/21	12/01/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.4 %	70-130	11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2149037	
Diesel Range Organics (C10-C28)	210	25.0	1	12/02/21	12/02/21	
Oil Range Organics (C28-C36)	544	50.0	1	12/02/21	12/02/21	
<i>Surrogate: n-Nonane</i>						
		130 %	50-200	12/02/21	12/02/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2148028	
Chloride	22.9	20.0	1	11/24/21	11/29/21	



Sample Data

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

Project Name: Grave Digger St Com 3H
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
12/2/2021 4:34:39PM

SW4

E111141-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2148027	
Benzene	ND	0.0250	1	11/24/21	12/01/21	
Ethylbenzene	ND	0.0250	1	11/24/21	12/01/21	
Toluene	ND	0.0250	1	11/24/21	12/01/21	
o-Xylene	ND	0.0250	1	11/24/21	12/01/21	
p,m-Xylene	ND	0.0500	1	11/24/21	12/01/21	
Total Xylenes	ND	0.0250	1	11/24/21	12/01/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>98.6 %</i>	<i>70-130</i>		<i>11/24/21</i>	<i>12/01/21</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2148027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/24/21	12/01/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>93.4 %</i>	<i>70-130</i>		<i>11/24/21</i>	<i>12/01/21</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2149037	
Diesel Range Organics (C10-C28)	201	25.0	1	12/02/21	12/02/21	
Oil Range Organics (C28-C36)	525	50.0	1	12/02/21	12/02/21	
<i>Surrogate: n-Nonane</i>	<i>129 %</i>	<i>50-200</i>		<i>12/02/21</i>	<i>12/02/21</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2148028	
Chloride	33.7	20.0	1	11/24/21	11/29/21	



Sample Data

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

Project Name: Grave Digger St Com 3H
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
12/2/2021 4:34:39PM

SW5

E111141-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Benzene	ND	0.0250	1	11/24/21	12/01/21	
Ethylbenzene	ND	0.0250	1	11/24/21	12/01/21	
Toluene	ND	0.0250	1	11/24/21	12/01/21	
o-Xylene	ND	0.0250	1	11/24/21	12/01/21	
p,m-Xylene	ND	0.0500	1	11/24/21	12/01/21	
Total Xylenes	ND	0.0250	1	11/24/21	12/01/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.6 %	70-130		11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148027
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/24/21	12/01/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.5 %	70-130		11/24/21	12/01/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2149037
Diesel Range Organics (C10-C28)	226	25.0	1	12/02/21	12/02/21	
Oil Range Organics (C28-C36)	540	50.0	1	12/02/21	12/02/21	
<i>Surrogate: n-Nonane</i>						
	144 %	50-200		12/02/21	12/02/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2148028
Chloride	26.5	20.0	1	11/24/21	11/29/21	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Grave Digger St Com 3H	Reported:
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	12/2/2021 4:34:39PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2148027-BLK1)

Prepared: 11/24/21 Analyzed: 12/01/21

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.00		8.00		100	70-130			

LCS (2148027-BS1)

Prepared: 11/24/21 Analyzed: 12/01/21

Benzene	4.68	0.0250	5.00		93.5	70-130			
Ethylbenzene	4.61	0.0250	5.00		92.3	70-130			
Toluene	4.77	0.0250	5.00		95.4	70-130			
o-Xylene	4.75	0.0250	5.00		95.1	70-130			
p,m-Xylene	9.39	0.0500	10.0		93.9	70-130			
Total Xylenes	14.1	0.0250	15.0		94.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.23		8.00		103	70-130			

LCS Dup (2148027-BS1)

Prepared: 11/24/21 Analyzed: 12/01/21

Benzene	4.68	0.0250	5.00		93.5	70-130	0.0150	20	
Ethylbenzene	4.62	0.0250	5.00		92.4	70-130	0.103	20	
Toluene	4.76	0.0250	5.00		95.3	70-130	0.159	20	
o-Xylene	4.74	0.0250	5.00		94.8	70-130	0.297	20	
p,m-Xylene	9.39	0.0500	10.0		93.9	70-130	0.0192	20	
Total Xylenes	14.1	0.0250	15.0		94.2	70-130	0.112	20	
Surrogate: 4-Bromochlorobenzene-PID	8.12		8.00		102	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Grave Digger St Com 3H	Reported:
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	12/2/2021 4:34:39PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2148027-BLK1)

Prepared: 11/24/21 Analyzed: 12/01/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.4	70-130			

LCS (2148027-BS2)

Prepared: 11/24/21 Analyzed: 12/02/21

Gasoline Range Organics (C6-C10)	55.1	20.0	50.0		110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.3	70-130			

LCS Dup (2148027-BSD2)

Prepared: 11/24/21 Analyzed: 12/02/21

Gasoline Range Organics (C6-C10)	52.8	20.0	50.0		106	70-130	4.21	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.1	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Grave Digger St Com 3H	Reported:
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	12/2/2021 4:34:39PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2148029-BLK1)

Prepared: 11/24/21 Analyzed: 11/29/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.6		50.0		105	50-200			

LCS (2148029-BS1)

Prepared: 11/24/21 Analyzed: 11/29/21

Diesel Range Organics (C10-C28)	389	25.0	500		77.7	38-132			
Surrogate: n-Nonane	48.8		50.0		97.7	50-200			

Matrix Spike (2148029-MS1)

Source: E111141-01

Prepared: 11/24/21 Analyzed: 12/02/21

Diesel Range Organics (C10-C28)	1680	25.0	500	299	277	38-132			M2
Surrogate: n-Nonane	78.8		50.0		158	50-200			

Matrix Spike Dup (2148029-MSD1)

Source: E111141-01

Prepared: 11/24/21 Analyzed: 12/02/21

Diesel Range Organics (C10-C28)	914	25.0	500	299	123	38-132	59.2	20	R4
Surrogate: n-Nonane	55.6		50.0		111	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Grave Digger St Com 3H	Reported:
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	12/2/2021 4:34:39PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2149037-BLK1)

Prepared: 12/02/21 Analyzed: 12/02/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	71.3		50.0		143	50-200			

LCS (2149037-BS1)

Prepared: 12/02/21 Analyzed: 12/02/21

Diesel Range Organics (C10-C28)	517	25.0	500		103	38-132			
Surrogate: n-Nonane	66.7		50.0		133	50-200			

Matrix Spike (2149037-MS1)

Source: E111141-01RE1

Prepared: 12/02/21 Analyzed: 12/02/21

Diesel Range Organics (C10-C28)	1680	25.0	500	299	277	38-132			M2
Surrogate: n-Nonane	78.8		50.0		158	50-200			

Matrix Spike Dup (2149037-MSD1)

Source: E111141-01RE1

Prepared: 12/02/21 Analyzed: 12/02/21

Diesel Range Organics (C10-C28)	914	25.0	500	299	123	38-132	59.2	20	R4
Surrogate: n-Nonane	55.6		50.0		111	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Grave Digger St Com 3H	Reported:
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	12/2/2021 4:34:39PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2148028-BLK1)					Prepared: 11/24/21 Analyzed: 11/29/21				
Chloride	ND	20.0							
LCS (2148028-BS1)					Prepared: 11/24/21 Analyzed: 11/29/21				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2148028-MS1)					Source: E111141-01		Prepared: 11/24/21 Analyzed: 11/29/21		
Chloride	7170	400	250	6330	336	80-120			M5
Matrix Spike Dup (2148028-MSD1)					Source: E111141-01		Prepared: 11/24/21 Analyzed: 11/29/21		
Chloride	6410	400	250	6330	30.9	80-120	11.2	20	M5

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



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Grave Digger St Com 3H	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	12/02/21 16:34

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The associated LCS spike recovery was acceptable.

R4 The RPD exceeded the acceptance limit. Sample visually appears to be non-homogenous.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Project Information

Chain of Custody

Page 1 of 2

Client: Pima Environmental Services Project: <u>Grave Digger St. Com 3H</u> Project Manager: Tom Bynum Address: 1601 N Turner St., Suite 500 City, State, Zip: <u>Hobbs, NM, 88240</u> Phone: 580-748-1613 Email: <u>tom@pimaoil.com</u> Report due by:				Bill To Attention: Address: City, State, Zip Phone: Email: Pima Project #				Lab Use Only Lab WO# <u>E111141</u> Job Number <u>210604-0001</u> Analysis and Method						TAT 1D 2D 3D Standard				EPA Program CWA SDWA RCRA	
								State NM CO UT AZ TX X											
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks					
	11-23	soil	1-402	S1-Surface	1							X							
				S1-2'	2														
				S1-4'	3														
				S2-Surface	4														
				S2-2'	5														
				S2-4'	6														
				S3-Surface	7														
				S3-2'	8														
				S3-4'	9														
				S4-Surface	10														
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.											Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only											
<i>Sebastian C.</i>		11-23-21	1300	<i>P. Bynum</i>		11/23/21	1300	Received on ice: <u>Y</u> N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3											
<i>P. Bynum</i>		11-23-21	1800	<i>Sebastian C.</i>		11/24/21	12:00												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other											Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA								
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Project Information

Chain of Custody

Page 2 of 2

Client: Pima Environmental Services					Bill To		Lab Use Only				TAT				EPA Program			
Project: <u>Grave Digger St. Com 3H</u>					Attention:		Lab WO# <u>E111141</u>		Job Number <u>21004-0001</u>		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Tom Bynum					Address:		Analysis and Method										RCRA	
Address: 1601 N Turner St., Suite 500					City, State, Zip												State	
City, State, Zip: Hobbs, NM, 88240					Phone:		DRO/RO by 8015		GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	BDOC TX	Remarks		
Phone: 580-748-1613					Email:													
Email: tom@pimaoil.com					Pima Project #													
Report due by:																		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number													
	11-23	Soil	1-402	SH-2'	11	X												
				SH-4'	12													
				SW1	13													
				SW2	14													
				SW3	15													
				SW4	16													
				SW5	17													
Additional Instructions:																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.								
Sampled by:										Lab Use Only								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received on ice: <u>YY</u> N										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA								
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		

Envirotech Analytical Laboratory

Printed: 11/24/2021 12:53:35PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	11/24/21 12:00	Work Order ID:	E111141
Phone:	(575) 631-6977	Date Logged In:	11/24/21 11:57	Logged In By:	Alexa Michaels
Email:	tom@pimaoil.com	Due Date:	12/02/21 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



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

December 15, 2021

TOM BYNUM

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: GRAVEDIGGER ST. COM 3H

Enclosed are the results of analyses for samples received by the laboratory on 12/10/21 11:30.

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.

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: 12/10/2021
Reported: 12/15/2021
Project Name: GRAVEDIGGER ST. COM 3H
Project Number: 6-55
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/09/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S1 - 6' (H213567-01)

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	12/13/2021	ND	2.04	102	2.00	2.19	
Toluene*	<0.050	0.050	12/13/2021	ND	1.98	99.2	2.00	1.87	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.93	96.5	2.00	2.03	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.88	98.0	6.00	1.94	
Total BTX	<0.300	0.300	12/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 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	12/13/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2021	ND	211	105	200	1.94	
DRO >C10-C28*	<10.0	10.0	12/13/2021	ND	210	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	12/13/2021	ND					

Surrogate: 1-Chlorooctane 93.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.4 % 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: 12/10/2021
Reported: 12/15/2021
Project Name: GRAVEDIGGER ST. COM 3H
Project Number: 6-55
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/09/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S2 - 5' (H213567-02)

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	12/13/2021	ND	2.04	102	2.00	2.19	
Toluene*	<0.050	0.050	12/13/2021	ND	1.98	99.2	2.00	1.87	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.93	96.5	2.00	2.03	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.88	98.0	6.00	1.94	
Total BTEX	<0.300	0.300	12/13/2021	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	<16.0	16.0	12/13/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2021	ND	211	105	200	1.94	
DRO >C10-C28*	<10.0	10.0	12/13/2021	ND	210	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	12/13/2021	ND					

Surrogate: 1-Chlorooctane 90.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.9 % 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: 12/10/2021
Reported: 12/15/2021
Project Name: GRAVEDIGGER ST. COM 3H
Project Number: 6-55
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/09/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S3 - 5' (H213567-03)

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	12/13/2021	ND	2.04	102	2.00	2.19	
Toluene*	<0.050	0.050	12/13/2021	ND	1.98	99.2	2.00	1.87	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.93	96.5	2.00	2.03	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.88	98.0	6.00	1.94	
Total BTX	<0.300	0.300	12/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 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	12/13/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2021	ND	211	105	200	1.94	
DRO >C10-C28*	<10.0	10.0	12/13/2021	ND	210	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	12/13/2021	ND					

Surrogate: 1-Chlorooctane 94.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.7 % 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

Analytical Results For:

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

Received: 12/10/2021
Reported: 12/15/2021
Project Name: GRAVEDIGGER ST. COM 3H
Project Number: 6-55
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/09/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S4 - 5' (H213567-04)

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	12/13/2021	ND	2.04	102	2.00	2.19	
Toluene*	<0.050	0.050	12/13/2021	ND	1.98	99.2	2.00	1.87	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.93	96.5	2.00	2.03	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.88	98.0	6.00	1.94	
Total BTX	<0.300	0.300	12/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 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	12/13/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2021	ND	211	105	200	1.94	
DRO >C10-C28*	<10.0	10.0	12/13/2021	ND	210	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	12/13/2021	ND					

Surrogate: 1-Chlorooctane 83.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.4 % 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

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 "C. D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CARDINAL
Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Pima Environmental Services Project Manager: Tom Bynum Address: 1601 N Turner St., Suite 500 City: Hobbs State: NM Zip: 88240 Phone #: 575-964-7740 Fax #: Project #: 6-55 Project Owner: SPUR Energy Project Name: Traveligger St. Com 3H Project Location: Eddy, NM Sampler Name: Tristan Ines				BILL TO ANALYSIS REQUEST																																																															
P.O. #: Company: Pima Environmental Attn: Tom Bynum Address: City: State: Zip: Phone #: Fax #:				<div style="display: flex; justify-content: space-around; font-size: 2em; font-weight: bold;"> <div>TPH EXT</div> <div>BTEX</div> <div>Chlorides</div> </div>																																																															
<div style="display: flex; justify-content: space-between;"> <div style="width: 20%;">FOR LAB USE ONLY</div> <div style="width: 40%;"> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Lab I.D.</th> <th style="width: 15%;">Sample I.D.</th> <th style="width: 5%;">(GRAB OR (C)OMP.</th> <th style="width: 5%;"># CONTAINERS</th> <th style="width: 10%;">MATRIX</th> <th style="width: 10%;">PRESERV.</th> <th style="width: 10%;">SAMPLING</th> </tr> <tr> <th></th> <th></th> <th></th> <th></th> <th>GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:</th> <th>ACID/BASE; ICE / COOL OTHER:</th> <th>DATE TIME</th> </tr> </thead> <tbody> <tr> <td>H213567</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>51 - 6'</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>52 - 5'</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>53 - 5'</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>54 - 5'</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> </div> <div style="width: 20%;"> Date: 12-10-21 Time: 11:30 AM </div> </div>																			Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING					GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE; ICE / COOL OTHER:	DATE TIME	H213567							1	51 - 6'						2	52 - 5'						3	53 - 5'						4	54 - 5'					
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING																																																													
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3	53 - 5'																																																																		
4	54 - 5'																																																																		
Relinquished By: Relinquished By: _____ Date: _____ Time: _____ Delivered By: (Circle One) -5.3°C C-0.5°C Sampler - UPS - Bus - Other: -5.8°C #13																																																																			
Received By: Received By: _____ Date: _____ Time: _____ Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked By: (Initials) Y.D.																																																																			
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:																																																																			
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* Cardinal accepts no responsibility for changes. Please refer to the contract for full terms and conditions.																																																																			



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

January 06, 2022

TOM BYNUM

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: GRAVEDIGGER ST. COM 3H

Enclosed are the results of analyses for samples received by the laboratory on 01/03/22 15:25.

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.

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: 01/03/2022
Reported: 01/06/2022
Project Name: GRAVEDIGGER ST. COM 3H
Project Number: 6-55
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/31/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B - 1 (H220007-01)

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	01/04/2022	ND	2.06	103	2.00	6.04	
Toluene*	<0.050	0.050	01/04/2022	ND	2.01	101	2.00	7.52	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.98	99.2	2.00	6.87	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	6.06	101	6.00	6.82	
Total BTX	<0.300	0.300	01/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 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	320	16.0	01/04/2022	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	01/04/2022	ND	210	105	200	4.79	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	203	101	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

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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: 01/03/2022
Reported: 01/06/2022
Project Name: GRAVEDIGGER ST. COM 3H
Project Number: 6-55
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/31/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B - 2 (H220007-02)

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	01/04/2022	ND	2.06	103	2.00	6.04	
Toluene*	<0.050	0.050	01/04/2022	ND	2.01	101	2.00	7.52	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.98	99.2	2.00	6.87	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	6.06	101	6.00	6.82	
Total BTEX	<0.300	0.300	01/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	288	16.0	01/04/2022	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	01/04/2022	ND	210	105	200	4.79	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	203	101	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 93.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.5 % 59.5-142

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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: 01/03/2022
Reported: 01/06/2022
Project Name: GRAVEDIGGER ST. COM 3H
Project Number: 6-55
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/31/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B - 3 (H220007-03)

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	01/04/2022	ND	2.06	103	2.00	6.04	
Toluene*	<0.050	0.050	01/04/2022	ND	2.01	101	2.00	7.52	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.98	99.2	2.00	6.87	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	6.06	101	6.00	6.82	
Total BTEx	<0.300	0.300	01/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	01/04/2022	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	01/04/2022	ND	210	105	200	4.79	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	203	101	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 97.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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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: 01/03/2022
Reported: 01/06/2022
Project Name: GRAVEDIGGER ST. COM 3H
Project Number: 6-55
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/31/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B - 4 (H220007-04)

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	01/04/2022	ND	2.06	103	2.00	6.04		
Toluene*	<0.050	0.050	01/04/2022	ND	2.01	101	2.00	7.52		
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.98	99.2	2.00	6.87		
Total Xylenes*	<0.150	0.150	01/04/2022	ND	6.06	101	6.00	6.82		
Total BTEx	<0.300	0.300	01/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 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	304	16.0	01/04/2022	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	01/04/2022	ND	210	105	200	4.79	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	203	101	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 85.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.0 % 59.5-142

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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: 01/03/2022
Reported: 01/06/2022
Project Name: GRAVEDIGGER ST. COM 3H
Project Number: 6-55
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/31/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B - 5 (H220007-05)

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	01/04/2022	ND	2.06	103	2.00	6.04		
Toluene*	<0.050	0.050	01/04/2022	ND	2.01	101	2.00	7.52		
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.98	99.2	2.00	6.87		
Total Xylenes*	<0.150	0.150	01/04/2022	ND	6.06	101	6.00	6.82		
Total BTEx	<0.300	0.300	01/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 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	304	16.0	01/04/2022	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	01/04/2022	ND	210	105	200	4.79	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	203	101	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 84.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.8 % 59.5-142

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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: 01/03/2022
Reported: 01/06/2022
Project Name: GRAVEDIGGER ST. COM 3H
Project Number: 6-55
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/31/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B - 6 (H220007-06)

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	01/04/2022	ND	2.06	103	2.00	6.04		
Toluene*	<0.050	0.050	01/04/2022	ND	2.01	101	2.00	7.52		
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.98	99.2	2.00	6.87		
Total Xylenes*	<0.150	0.150	01/04/2022	ND	6.06	101	6.00	6.82		
Total BTEx	<0.300	0.300	01/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 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	400	16.0	01/04/2022	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	01/04/2022	ND	210	105	200	4.79	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	203	101	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 89.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.5 % 59.5-142

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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: 01/03/2022
Reported: 01/06/2022
Project Name: GRAVEDIGGER ST. COM 3H
Project Number: 6-55
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/31/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B - 7 (H220007-07)

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	01/04/2022	ND	2.06	103	2.00	6.04	
Toluene*	<0.050	0.050	01/04/2022	ND	2.01	101	2.00	7.52	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.98	99.2	2.00	6.87	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	6.06	101	6.00	6.82	
Total BTEx	<0.300	0.300	01/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	480	16.0	01/04/2022	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	01/04/2022	ND	210	105	200	4.79	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	203	101	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 92.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.1 % 59.5-142

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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: 01/03/2022
Reported: 01/06/2022
Project Name: GRAVEDIGGER ST. COM 3H
Project Number: 6-55
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/31/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B - 8 (H220007-08)

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	01/04/2022	ND	2.06	103	2.00	6.04		
Toluene*	<0.050	0.050	01/04/2022	ND	2.01	101	2.00	7.52		
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.98	99.2	2.00	6.87		
Total Xylenes*	<0.150	0.150	01/04/2022	ND	6.06	101	6.00	6.82		
Total BTEx	<0.300	0.300	01/04/2022	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	272	16.0	01/04/2022	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	01/04/2022	ND	210	105	200	4.79	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	203	101	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 82.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.9 % 59.5-142

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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: 01/03/2022
Reported: 01/06/2022
Project Name: GRAVEDIGGER ST. COM 3H
Project Number: 6-55
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/31/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B - 9 (H220007-09)

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	01/04/2022	ND	2.06	103	2.00	6.04		
Toluene*	<0.050	0.050	01/04/2022	ND	2.01	101	2.00	7.52		
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.98	99.2	2.00	6.87		
Total Xylenes*	<0.150	0.150	01/04/2022	ND	6.06	101	6.00	6.82		
Total BTEx	<0.300	0.300	01/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 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	624	16.0	01/04/2022	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	01/04/2022	ND	208	104	200	2.81	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	218	109	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 97.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.1 % 59.5-142

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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: 01/03/2022
Reported: 01/06/2022
Project Name: GRAVEDIGGER ST. COM 3H
Project Number: 6-55
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/31/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B - 10 (H220007-10)

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	01/04/2022	ND	2.06	103	2.00	6.04		
Toluene*	<0.050	0.050	01/04/2022	ND	2.01	101	2.00	7.52		
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.98	99.2	2.00	6.87		
Total Xylenes*	<0.150	0.150	01/04/2022	ND	6.06	101	6.00	6.82		
Total BTEx	<0.300	0.300	01/04/2022	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	416	16.0	01/04/2022	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	01/04/2022	ND	208	104	200	2.81	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	218	109	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 96.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.8 % 59.5-142

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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: 01/03/2022
Reported: 01/06/2022
Project Name: GRAVEDIGGER ST. COM 3H
Project Number: 6-55
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/31/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B - 11 (H220007-11)

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	01/04/2022	ND	2.06	103	2.00	6.04		
Toluene*	<0.050	0.050	01/04/2022	ND	2.01	101	2.00	7.52		
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.98	99.2	2.00	6.87		
Total Xylenes*	<0.150	0.150	01/04/2022	ND	6.06	101	6.00	6.82		
Total BTEx	<0.300	0.300	01/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 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	288	16.0	01/04/2022	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	01/04/2022	ND	208	104	200	2.81	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	218	109	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 92.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.9 % 59.5-142

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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: 01/03/2022
Reported: 01/06/2022
Project Name: GRAVEDIGGER ST. COM 3H
Project Number: 6-55
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/31/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B - 12 (H220007-12)

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	01/04/2022	ND	2.06	103	2.00	6.04		
Toluene*	<0.050	0.050	01/04/2022	ND	2.01	101	2.00	7.52		
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.98	99.2	2.00	6.87		
Total Xylenes*	<0.150	0.150	01/04/2022	ND	6.06	101	6.00	6.82		
Total BTEx	<0.300	0.300	01/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 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	304	16.0	01/04/2022	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	01/04/2022	ND	208	104	200	2.81	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	218	109	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 97.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.6 % 59.5-142

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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: 01/03/2022
Reported: 01/06/2022
Project Name: GRAVEDIGGER ST. COM 3H
Project Number: 6-55
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/31/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 1 (H220007-13)

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	01/04/2022	ND	2.06	103	2.00	6.04	
Toluene*	<0.050	0.050	01/04/2022	ND	2.01	101	2.00	7.52	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.98	99.2	2.00	6.87	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	6.06	101	6.00	6.82	
Total BTEX	<0.300	0.300	01/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 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	112	16.0	01/04/2022	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	01/04/2022	ND	208	104	200	2.81	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	218	109	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 100 % 59.5-142

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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: 01/03/2022
Reported: 01/06/2022
Project Name: GRAVEDIGGER ST. COM 3H
Project Number: 6-55
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/31/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 2 (H220007-14)

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	01/04/2022	ND	2.06	103	2.00	6.04	
Toluene*	<0.050	0.050	01/04/2022	ND	2.01	101	2.00	7.52	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.98	99.2	2.00	6.87	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	6.06	101	6.00	6.82	
Total BTEX	<0.300	0.300	01/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 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	112	16.0	01/04/2022	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	01/04/2022	ND	208	104	200	2.81	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	218	109	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 89.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.1 % 59.5-142

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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: 01/03/2022
Reported: 01/06/2022
Project Name: GRAVEDIGGER ST. COM 3H
Project Number: 6-55
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/31/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 3 (H220007-15)

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	01/04/2022	ND	2.06	103	2.00	6.04	
Toluene*	<0.050	0.050	01/04/2022	ND	2.01	101	2.00	7.52	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.98	99.2	2.00	6.87	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	6.06	101	6.00	6.82	
Total BTEX	<0.300	0.300	01/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 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	96.0	16.0	01/04/2022	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	01/04/2022	ND	208	104	200	2.81	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	218	109	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 90.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.4 % 59.5-142

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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: 01/03/2022
Reported: 01/06/2022
Project Name: GRAVEDIGGER ST. COM 3H
Project Number: 6-55
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/31/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 4 (H220007-16)

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	01/04/2022	ND	2.06	103	2.00	6.04		
Toluene*	<0.050	0.050	01/04/2022	ND	2.01	101	2.00	7.52		
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.98	99.2	2.00	6.87		
Total Xylenes*	<0.150	0.150	01/04/2022	ND	6.06	101	6.00	6.82		
Total BTX	<0.300	0.300	01/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 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	96.0	16.0	01/04/2022	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	01/04/2022	ND	208	104	200	2.81	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	218	109	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 98.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.7 % 59.5-142

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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: 01/03/2022
Reported: 01/06/2022
Project Name: GRAVEDIGGER ST. COM 3H
Project Number: 6-55
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/31/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 5 (H220007-17)

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	01/04/2022	ND	2.06	103	2.00	6.04		
Toluene*	<0.050	0.050	01/04/2022	ND	2.01	101	2.00	7.52		
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.98	99.2	2.00	6.87		
Total Xylenes*	<0.150	0.150	01/04/2022	ND	6.06	101	6.00	6.82		
Total BTX	<0.300	0.300	01/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 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	96.0	16.0	01/04/2022	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	01/04/2022	ND	208	104	200	2.81	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	218	109	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 93.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.0 % 59.5-142

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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: 01/03/2022
Reported: 01/06/2022
Project Name: GRAVEDIGGER ST. COM 3H
Project Number: 6-55
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 12/31/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 6 (H220007-18)

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	01/04/2022	ND	2.06	103	2.00	6.04		
Toluene*	<0.050	0.050	01/04/2022	ND	2.01	101	2.00	7.52		
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.98	99.2	2.00	6.87		
Total Xylenes*	<0.150	0.150	01/04/2022	ND	6.06	101	6.00	6.82		
Total BTEx	<0.300	0.300	01/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	128	16.0	01/05/2022	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	01/04/2022	ND	208	104	200	2.81	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	218	109	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 87.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.0 % 59.5-142

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*=Accredited Analyte

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



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

Notes and Definitions

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 "Mike Snyder", is written over a horizontal line.

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



CARDINAL

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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

Company Name: Pima Environmental Services				BILL TO		ANALYSIS REQUEST											
Project Manager: Tom Bynum				P.O. #:													
Address: 5614 N. Lovington Hwy				Company: SPUR													
City: Hobbs State: NM Zip: 88240				Attn:													
Phone #: 575-964-7740 Fax #:				Address:													
Project #: 6-55 Project Owner: SPUR				City:													
Project Name: Grave Digger St Con 341				State: Zip:													
Project Location: Eddy County				Phone #:													
Sampler Name: TRISTAN JONES				Fax #:													
FOR LAB USE ONLY												TOP EXT		BTEX		Chloride	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING							
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME			
4220007	B-1												12/31	8:00			
1	B-2												12/31	8:05			
2	B-3												12/31	8:10			
3	B-4												12/31	8:15			
4	B-5												12/31	8:20			
5	B-6												12/31	8:25			
6	B-7												12/31	8:30			
7	B-8												12/31	8:35			
8	B-9												12/31	8:40			
9	B-10												12/31	8:45			

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Relinquished By: <i>Neil Jones</i>	Date: 1-3-22 Time: 1525	Received By: <i>Janora Oldaker</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) -4.3°C -0.5°C	Time:	Sample Condition	REMARKS:	
Sampler - UPS - Bus - Other: -4.8°C #113		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	BILL TO SPUR	
		Checked By: (Initials) TO		

† 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: Pima Environmental Services Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy City: Hobbs State: NM Zip: 88240 Phone #: 575-964-7740 Fax #: Project #: 6-55 Project Owner: SPUR Project Name: Garagedigger ST CON 3H Project Location: Eddy County Sampler Name: TRISTAN JONES				BILL TO P.O. #: Company: SPUR Attn: Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST																			
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(GRAB OR C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME													
H220007															TPX EXT	BTEV	CHLORIDE										
11	B-10												12/31	8:50													
12	B-11												12/31	8:55													
13	B-12												12/31	9:00													
14	SW-1												12/31	9:05													
15	SW-2												12/31	9:10													
16	SW-3												12/31	9:15													
17	SW-4												12/31	9:20													
18	SW-5												12/31	9:25													
19	SW-6												12/31	9:30													

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Relinquished By: Relinquished By:	Date: 12-21 Time: 15:25 Date: Time:	Received By: 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: BILL TO SPUR
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	-4.3°C C-0.5 -4.8°C #113	Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: (Initials)

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



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

January 11, 2022

TOM BYNUM

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: GRAVEDIGGER ST. COM 3H

Enclosed are the results of analyses for samples received by the laboratory on 01/07/22 10:35.

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.

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: 01/07/2022
Reported: 01/11/2022
Project Name: GRAVEDIGGER ST. COM 3H
Project Number: 6-55
Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 01/06/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B - 9 (H220069-01)**Chloride, SM4500Cl-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	01/10/2022	ND	416	104	400	3.92	

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



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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

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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



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>1-7-22</i>	Received By: <i>Samara Stakely</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: <i>1035</i>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS:	
Time:				<i>TAT - Standard</i>	
Delivered By: (Circle One) <i>4.7c</i>		<i>C-0.52</i>	Sample Condition	CHECKED BY:	
Sampler - UPS - Bus - Other:			Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	(Initials)	
<i>4.2c #113</i>			<input type="checkbox"/> Yes <input type="checkbox"/> No	<i>TS</i>	

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

District I

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

811 S. First St., Artesia, NM 88210
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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 97022

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 97022
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2133477894 GRAVE DIGGER STATE COM #003H WATER TRANSFER LINE, thank you. This closure is approved.	7/11/2022