

**Raybaw Operating, LLC.
2626 Cole Ave., Suite 300
Dallas, TX 75204
214-800-2301**

January 31, 2024

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

**RE: Site Assessment, Remediation Work Plan, and Variance Request
State EF Com #001
API No. 30-025-01821
GPS: Latitude 33.389492 Longitude -103.5441055
UL "P", Section 6, Township 11S, Range 34E,
Lea County, NM
NMOCD Reference No. nAPP2323540131**

Raybaw Operating, LLC (Raybaw) has contracted Pima Environmental Services, LLC (Pima) to perform a site assessment, prepare this remediation work plan, and variance request for an unknown release that was found during an inspection at the State EF Com #001 (State). An initial C-141 was submitted on August 25, 2023, and can be found in Appendix C. This incident was assigned Incident ID nAPP2323540131, by the New Mexico Oil Conservation Division (NMOCD).

Site Information and Site Characterization

The State is located approximately fifteen and a half (15.5) miles northwest of Tatum, NM. This spill site is in Unit P, Section 6, Township 11S, Range 34E, Latitude 33.389492 Longitude -103.5441055, Lea County, NM. A Location Map can be found in Figure 1.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology in this area is in the Ogallala Formation. Alluvial and eolian deposits, and petrocalcic soils of the southern High Plains. Locally includes Qoa. The soil in this area is made up of Portales Loam and Kimbrough gravelly loam, dry, both having 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 for both soil types are well drained. There is a low potential for karst geology to be present around the State (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 85 feet below grade surface (BGS). According to the United States Geological Survey well water data, depth to the nearest groundwater in this area is 32 feet BGS. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29

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

nAPP2323540131: On August 2, 2023, NMOCD field inspection – cEZB2322846169 – Inspector cited: 19.15.29 Releases Surface Leaks/Spills Remove contamination and dispose, per rule requirements.

Site Assessment

On August 23, 2023, Pima mobilized personnel to perform a site assessment and collect soil samples. Grab soil samples were collected within and around the impacted area due north of the wellhead utilizing a hand auger. The laboratory results from this sampling event can be found in the following data table.

8-23-23 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
RAYBAW OPERATING, LLC - STATE EF COM #1								
Date: 8/23/23		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	Surface	ND	ND	ND	26.5	ND	26.5	1550
	2'	ND	ND	ND	ND	ND	0	374
	4'	ND	ND	ND	ND	ND	0	ND
S-2	Surface	ND	ND	ND	ND	ND	0	723
	2'	ND	ND	ND	ND	ND	0	444
	4'	ND	ND	ND	ND	ND	0	445
S-3	Surface	ND	ND	ND	102	92.3	194.3	2270
	2'	ND	ND	ND	ND	ND	0	452
	4'	ND	ND	ND	ND	ND	0	ND
S-4	Surface	ND	ND	ND	ND	ND	0	806
	2'	ND	ND	ND	ND	ND	0	466
	4'	ND	ND	ND	ND	ND	0	ND
S-5	Surface	ND	ND	ND	ND	ND	0	659
	2'	ND	ND	ND	ND	ND	0	436
	4'	ND	ND	ND	ND	ND	0	ND
S-6	Surface	ND	ND	ND	ND	ND	0	802
	2'	ND	ND	ND	ND	ND	0	386
	4'	ND	ND	ND	ND	ND	0	ND
S-7	Surface	ND	ND	ND	ND	ND	0	744
	2'	ND	ND	ND	ND	ND	0	423
	4'	ND	ND	ND	ND	ND	0	ND
S-8	Surface	ND	ND	ND	ND	ND	0	728
	2'	ND	ND	ND	ND	ND	0	424
	4'	ND	ND	ND	ND	ND	0	ND
S-9	Surface	ND	ND	ND	92.5	76.7	169.2	2360
	2'	ND	ND	ND	ND	ND	0	429
	4'	ND	ND	ND	ND	ND	0	ND

ND – Non-Detect

On January 22, 2024, due to a rejection of the previously submitted remediation plan, Pima personnel returned to the site to complete horizontal delineation of the area. We collected 6 composite soil samples and one background soil sample. The samples were immediately put on ice, transferred into sample jars, prepared and delivered to an NMOCD-approved laboratory. The results from this sampling event can be seen in the following data table. A Horizontal Delineation Map can be found in Figure 4.

1-22-24 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
RAYBAW OPERATING, LLC - STATE EF COM #1								
Date: 1/22/24		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
SW1-COMP	Sur, 1', 2', 3', 4'	ND	ND	ND	ND	ND	0	ND
SW2-COMP	Sur, 1', 2', 3', 4'	ND	ND	ND	ND	ND	0	ND
SW3-COMP	Sur, 1', 2', 3', 4'	ND	ND	ND	ND	ND	0	ND
SW4-COMP	Sur, 1', 2', 3', 4'	ND	ND	ND	ND	ND	0	ND
SW5-COMP	Sur, 1', 2', 3', 4'	ND	ND	ND	ND	ND	0	ND
SW6-COMP	Sur, 1', 2', 3', 4'	ND	ND	ND	ND	ND	0	ND
BG1	6"	ND	ND	ND	ND	ND	0	ND

ND = Non-Detect

Remediation Work Plan

On behalf of Raybaw, Pima proposes to remediate this area by the following method:

1. Submit a one-call through the NM811 system.
2. The estimated volume of soil to be remediated is approximately 556 cubic yards. This is based on a 15,000 square foot area and an average depth of 1' bgs.
3. We propose to use excavate the entire area and dispose of the contaminated soil at an NMOCD-approved disposal facility.
4. Samples will be collected from the base and sidewalls of the excavated area then field screened using a silver nitrate titration kit.
5. If contamination levels are found to be under closure criteria per Table 1 of 19.15.29 NMAC, a 48-hour notification will be issued to NMOCD for confirmation sampling of the area.

Variance Request

Based on the large area associated with this release, nAPP2323540131, Raybaw would like to request a variance regarding the number of 5-point composite confirmation samples required for closure. The current release area is approximately 15,000 feet squared, requiring 75 confirmation base samples and 4 confirmation sidewall samples, following the 200 square foot rule. We believe we can obtain an accurate representation of the remediated area by collecting 5-point composite confirmation samples every 400 square feet. If further contamination is encountered, the number of required samples will be adjusted to maintain representation of every 400 square feet. Maps and data will be adjusted to accurately reflect the field information. A Variance Request Map is included as Figure 5. A Written Demonstration of Equal Protection can be found in Figure 6.

Upon completion of this scope of work and confirmation sampling event, a full revised closure report and closure request will be submitted, documenting remediation/reclamation activities and results of confirmation soil samples.

For questions or additional information, please feel free to contact:

Raybaw Operating – Nancy Winn – 281-793-5452 or nwinn@sbcglobal.net.

Pima Environmental – Tom Bynum – 580-748-1613 or tom@pimaoil.com.

Attachments

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Horizontal Delineation Map
- 5- Variance Request Map
- 6- Written Demonstration of Equal Protection

Appendices:

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



Pima Environmental Services

Figures:

- 1 - Location Map
- 2 - Topographic Map
- 3 - Karst Map
- 4 - Horizontal Delineation Map
- 5 - Variance Request Map
- 6 - Written Demonstration of Equal Protection

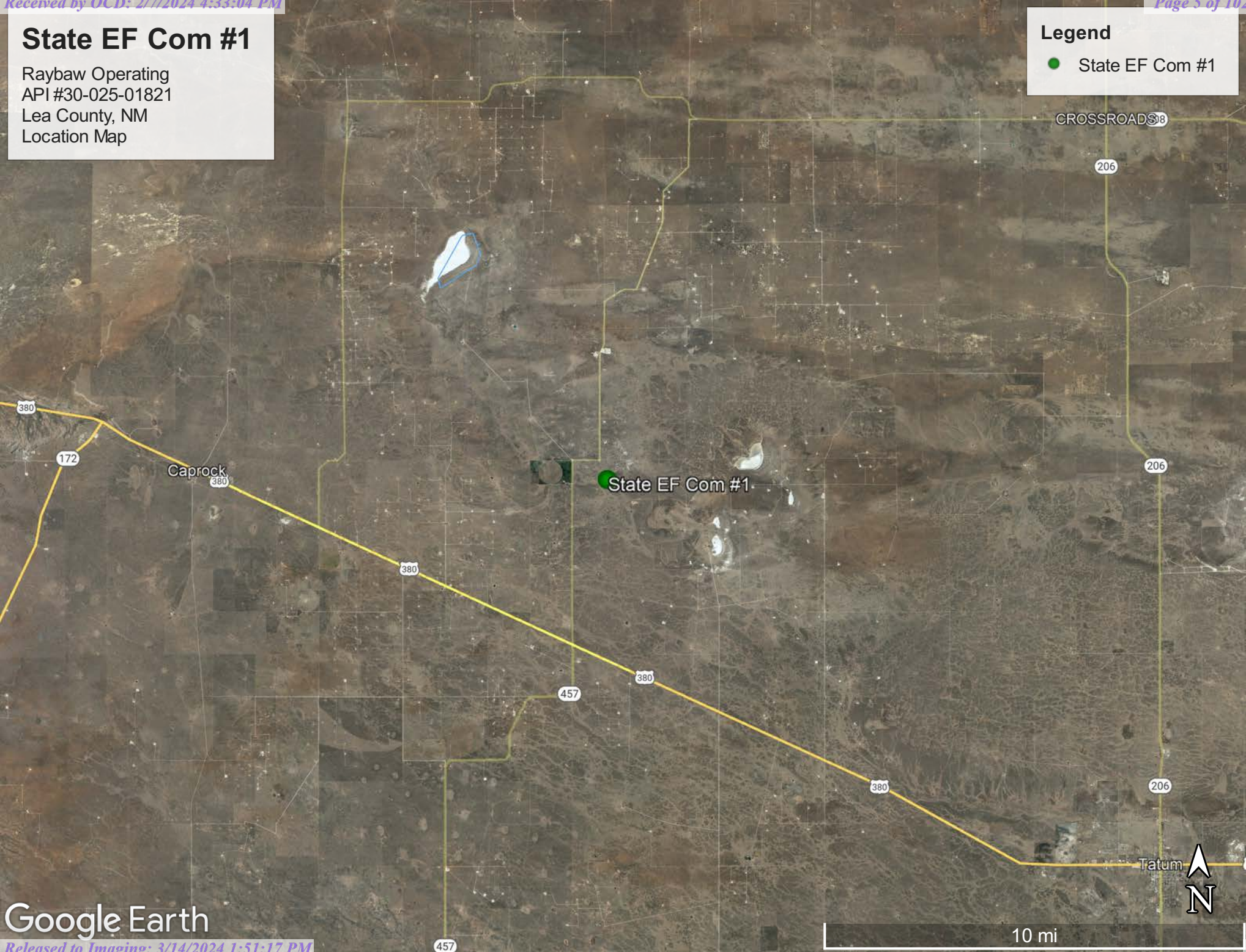
State EF Com #1

Raybaw Operating
API #30-025-01821
Lea County, NM
Location Map

Legend

●

State EF Com #1

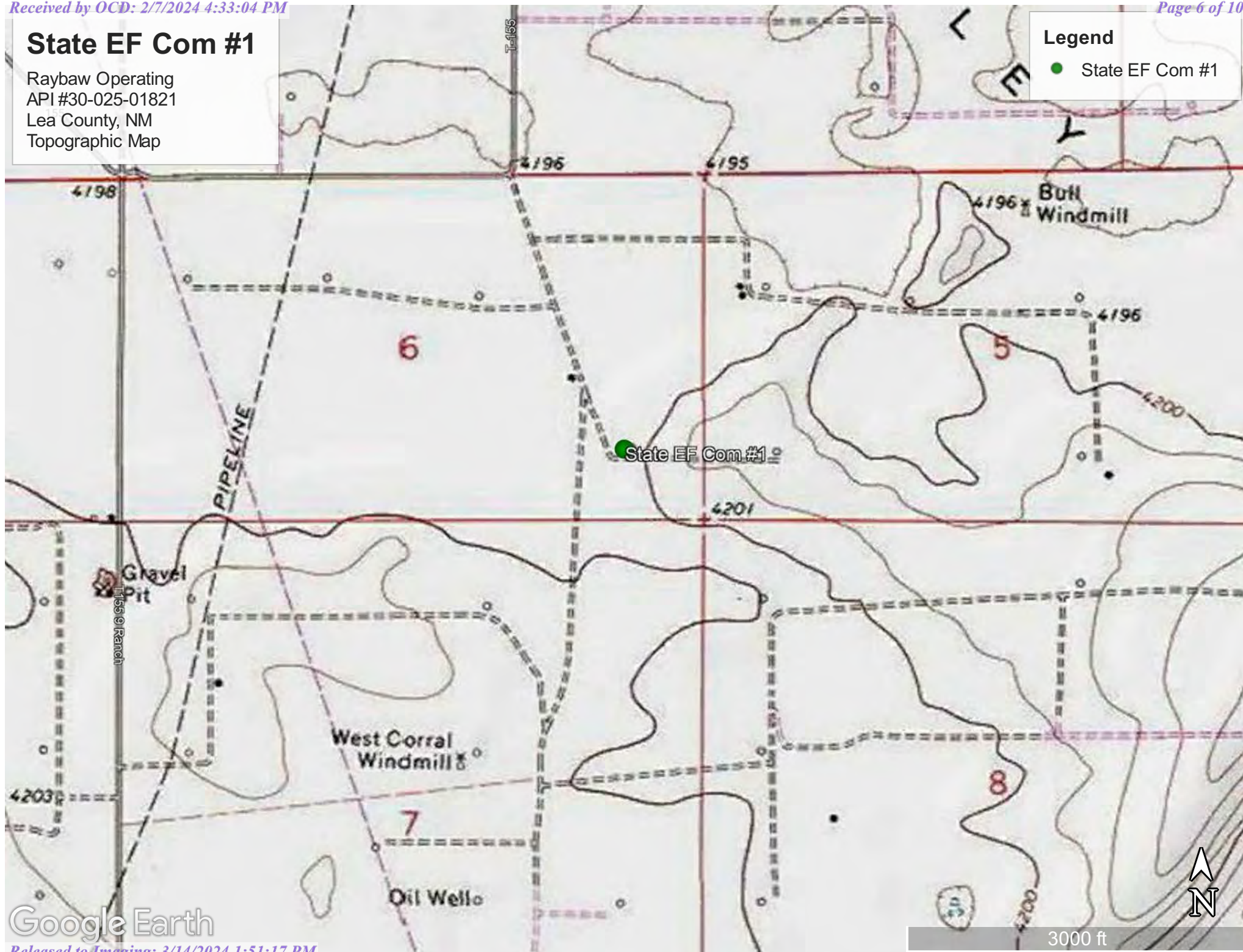


State EF Com #1

Raybaw Operating
API #30-025-01821
Lea County, NM
Topographic Map

Legend

● State EF Com #1



State EF Com #1

Raybaw Operating
API #30-025-01821
Lea County, NM
Karst Map

155

Legend

- High Karst
- Low Karst
- Medium Karst

State EF Com #1

157

380

157

380

457

380

Google Earth



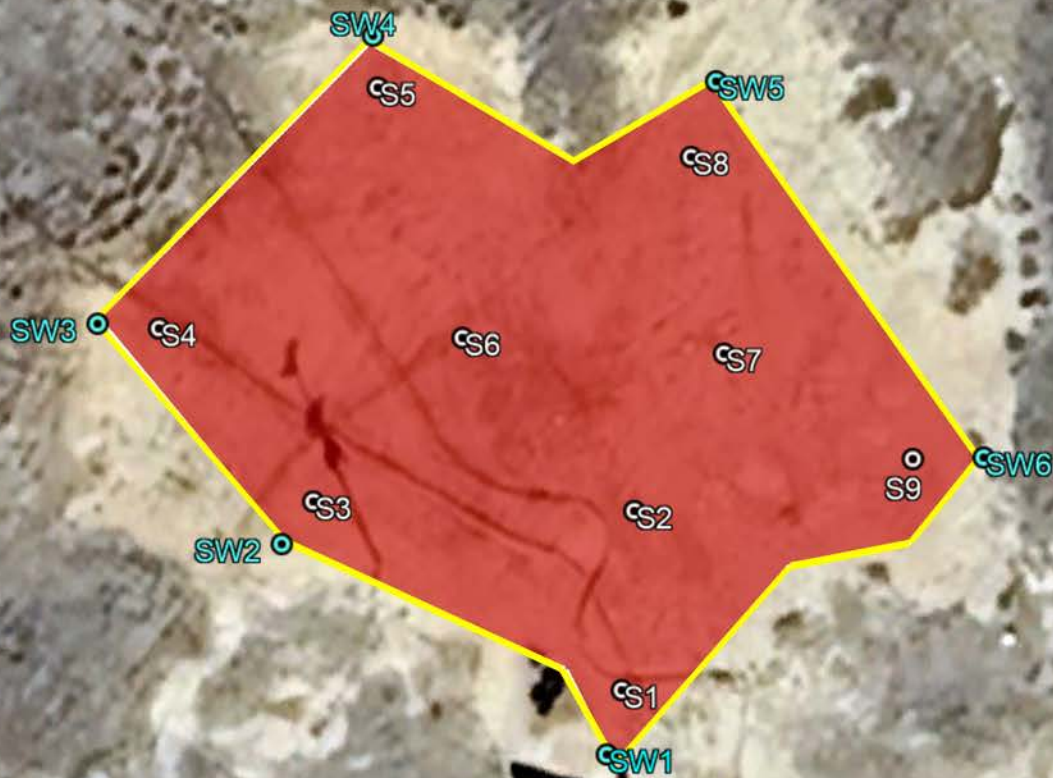
4 mi

State EF Com #1

Raybaw Operating
API #30-025-01821
Lea County, NM
Horizontal Delineation Map

Legend

- Horizontal Delineation Samples
- Horizontal Delineation-15,000 SqFt
- Vertical Delineation Samples



State EF Com #1



2000 ft

State EF Com #1

Raybaw Operating
API #30-025-01821
Lea County, NM
Variance Request Map

Legend

- Composite Base Samples
- Composite Sidewall Samples
- Lack of Growth Area-15,000 SqFt



Written Demonstration of Equal Protection

The purpose of this demonstration is to provide sufficient evidence that samples taken from every 400 square feet versus samples taken from every 200 square feet would provide equal or better protection of fresh water, public health, and the environment.

1. This site lies in a low karst zone. The nearest medium or high karst zone is greater than 10 miles in any direction. (Figure 3).
2. The nearest surface water feature to this site is Middle Lake and is approximately 2.71 miles to the southeast (Appendix A).
3. According to FEMA, this site is in a minimal flood hazard area (Appendix B).
4. According to the U.S. Fish and Wildlife Service - National Wetlands Inventory, this site is approximately 2.68 miles northwest of a freshwater pond (Appendix B).
5. According to the United States Geological Survey, there is 1 water well within .81 miles from this site. The last recorded depth to groundwater was 32' bgs (Appendix A).
6. According to the Office of the State Engineer, there is 1 water well within 1,107 feet from this site. POD number L 05023 was drilled to a depth of 140' bgs, encountering water at 85' (Appendix A).
7. The impacted difference in collecting 5-point composite samples from every 400 square feet versus every 200 square feet can be seen in the following illustrations.



200 Square Foot



400 Square Foot

For Sidewall Samples



Top Line = 200 Square Foot

Bottom Line = 400 Square Foot



Pima Environmental Services

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
L 05023		L	LE	2	2	07	11S	34E		635415	3695003*	369	140	85	55
L 14744 POD1		L	LE	3	1	4	05	11S	34E	636414	3695683	1081	80	20	60
L 06458		L	LE	1	2	08	11S	34E		636622	3695021*	1291	90	32	58
L 10201		L	LE	2	3	07	11S	34E		634623	3694178*	1411	80	50	30
L 06076		L	LE	4	4	4	01	11S	33E	633947	3695271*	1434	95	40	55
L 05002		L	LE	2	2	12	11S	33E		633853	3694971*	1576	50	25	25
L 00147	R	L	LE	1	2	12	11S	33E		633450	3694966*	1970	55	51	4
L 01242		L	LE	1	4	01	11S	33E		633439	3695769*	1979	40	22	18

Average Depth to Water: **40 feet**

Minimum Depth: **20 feet**

Maximum Depth: **85 feet**

Record Count: 8

UTM NAD83 Radius Search (in meters):

Easting (X): 635378.19

Northing (Y): 3695370.46

Radius: 2000

*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.

9/1/23 11:29 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater


Geographic Area:

United States

GO

Click to hide News Bulletins

❗ How are we doing? We want to hear from you. Take our quick [survey](#) to tell us what you think.

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

Groundwater levels for the Nation

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

Search Results -- 1 sites found

site_no list =

- 332343103315101

Minimum number of levels = 1

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

USGS 332343103315101 11S.34E.05.21114

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 12080004

Latitude 33°23'43", Longitude 103°31'51" NAD27

Land-surface elevation 4,197 feet above NAVD88

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

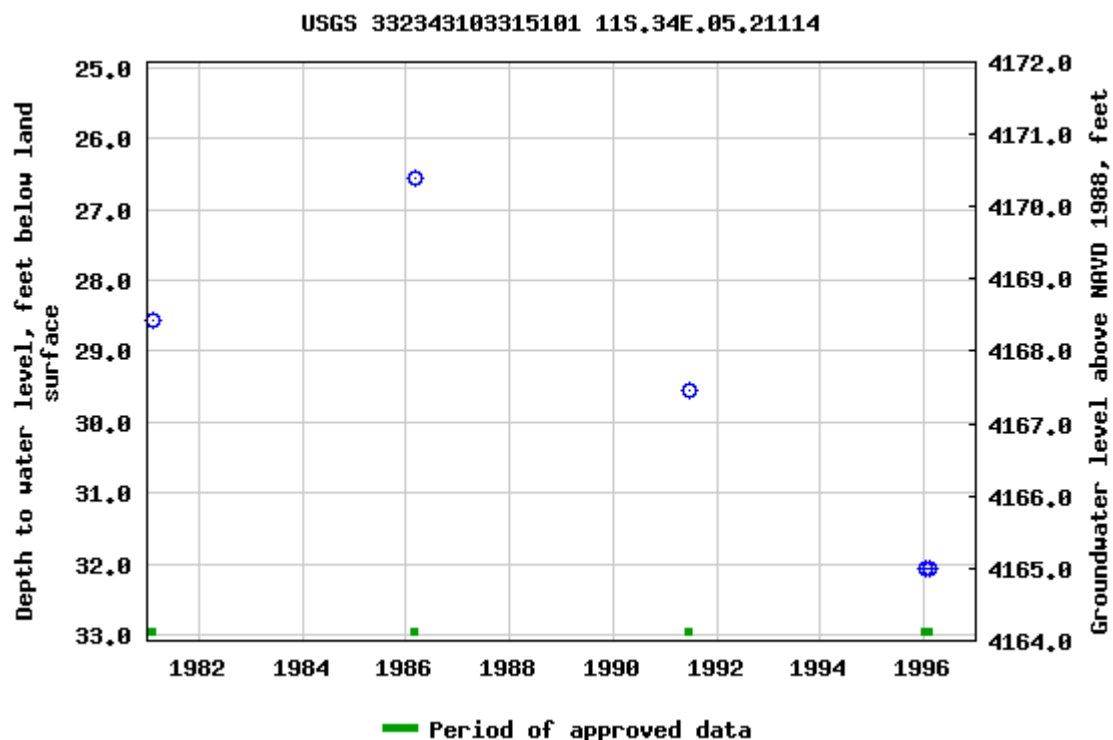
Output formats

[Table of data](#)

[Tab-separated data](#)

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

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Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2023-08-31 13:34:54 EDT

0.61 0.53 nadww02

State EF Com #1

Raybaw Operating
API #30-025-01821
Lea County, NM
Surface Water Map

Legend

- 2.71 Miles
- Middle Lake

State EF Com #1

Middle Lake

Google Earth

1 mi





Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

Map Unit Description: Portales loam, 0 to 3 percent slopes---Lea County, New Mexico

Lea County, New Mexico

PC—Portales loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tmpb

Elevation: 2,500 to 5,300 feet

Mean annual precipitation: 14 to 17 inches

Mean annual air temperature: 57 to 64 degrees F

Frost-free period: 185 to 220 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Portales, dry, and similar soils: 85 percent

Minor components: 15 percent

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

Description of Portales, Dry

Setting

Landform: Playa slopes, interdunes, plains

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Calcareous loamy eolian deposits and/or lacustrine deposits

Typical profile

A - 0 to 14 inches: loam

Bk1 - 14 to 35 inches: clay loam

Bk2 - 35 to 43 inches: loam

Bkk - 43 to 80 inches: clay loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.57 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 75 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 3.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Moderate (about 7.6 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Map Unit Description: Portales loam, 0 to 3 percent slopes---Lea County, New Mexico

Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: B
Ecological site: R077DY042TX - Limy Upland 12-17" PZ
Hydric soil rating: No

Minor Components

Midessa, dry

Percent of map unit: 8 percent
Landform: Playa slopes, plains
Down-slope shape: Concave, convex
Across-slope shape: Linear
Ecological site: R077DY042TX - Limy Upland 12-17" PZ
Hydric soil rating: No

Posey, dry

Percent of map unit: 3 percent
Landform: Plains, playa slopes
Down-slope shape: Convex, concave
Across-slope shape: Linear
Ecological site: R077DY042TX - Limy Upland 12-17" PZ
Hydric soil rating: No

Stegall, dry

Percent of map unit: 2 percent
Landform: Plains
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: R077CY022TX - Deep Hardland 16-21" PZ
Hydric soil rating: No

Acuff, dry

Percent of map unit: 2 percent
Landform: Playa slopes, plains
Down-slope shape: Concave, convex
Across-slope shape: Linear
Ecological site: R077CY022TX - Deep Hardland 16-21" PZ
Hydric soil rating: No

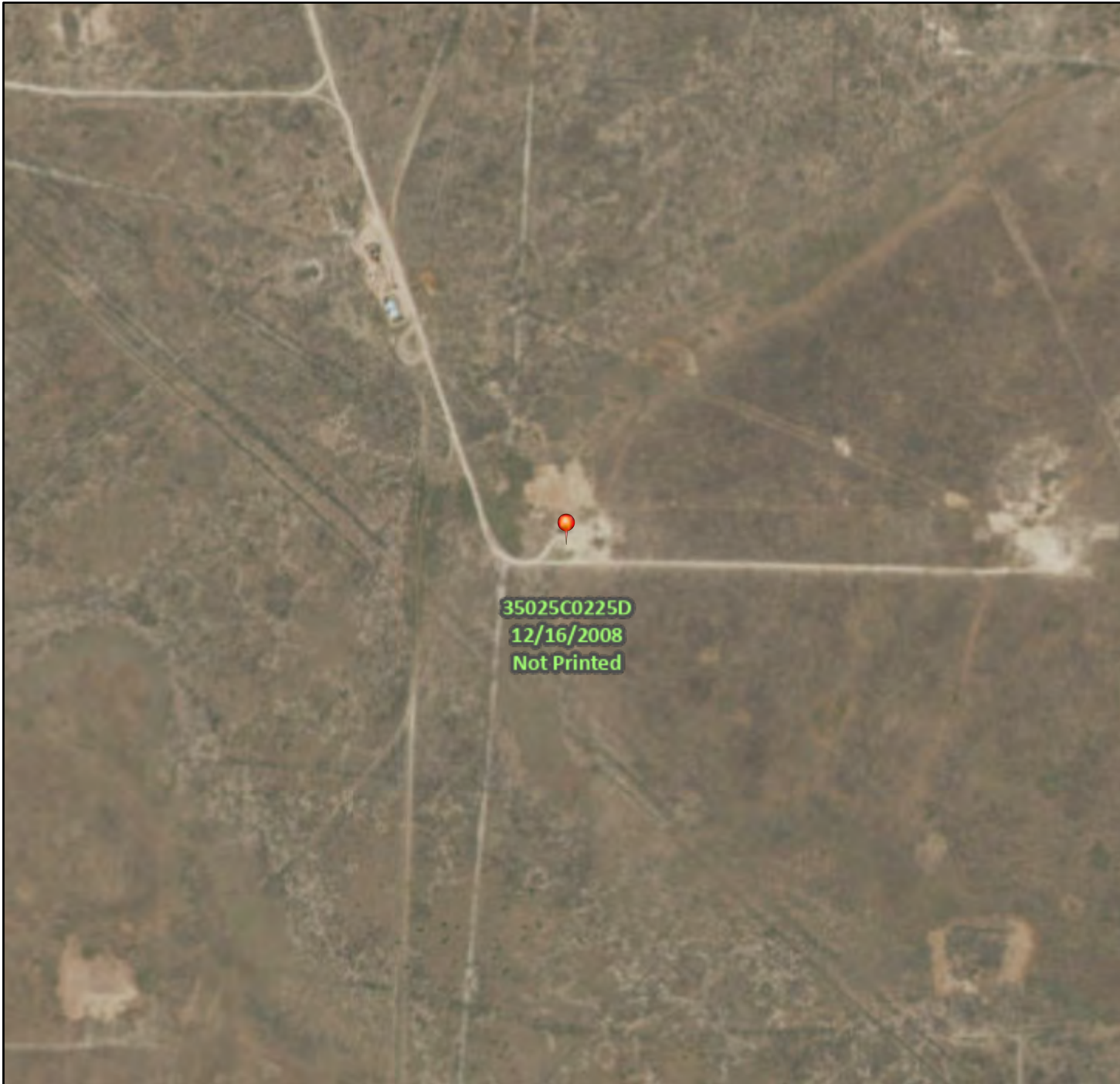
Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 19, Sep 8, 2022

National Flood Hazard Layer FIRMette



103°32'58"W 33°23'36"N



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

1:6,000

103°32'20"W 33°23'6"N

Released to Imaging: 3/14/2024 1:31:17 PM

Basemap Imagery Source: USGS National Map 2023

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		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 Cross Sections with 1% Annual Chance Water Surface Elevation
		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

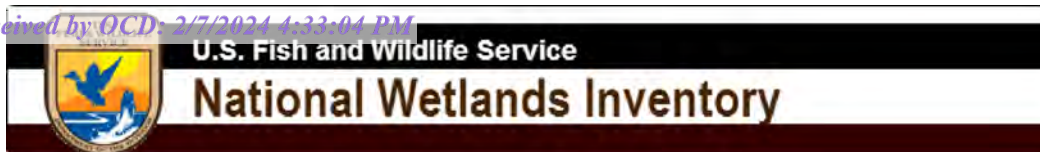


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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 8/31/2023 at 1:46 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



Wetlands Map



September 1, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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



Pima Environmental Services

Appendix C

C-141 Form

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	nAPP2323540131
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Raybaw Operating, LLC	OGRID 330220
Contact Name Nancy Winn	Contact Telephone 281-793-5452
Contact email nwinn@sbcglobal.net	Incident # (assigned by OCD) nAPP2323540131
Contact mailing address 2626 Cole Avenue, Dallas, TX 75204	

Location of Release Source

Latitude 33.389492 Longitude -103.5441055
(NAD 83 in decimal degrees to 5 decimal places)

Site Name State EF Com #1	Site Type Oil
Date Release Discovered 8/2/23	API# (if applicable) 30-025-01821

Unit Letter	Section	Township	Range	County
P	06	11S	34E	Lea

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 checked="" type="checkbox"/> Other (describe)	Volume/Weight Released (provide units) Unknown	Volume/Weight Recovered (provide units)

Cause of Release NMOCD Field Inspection - cEZB2322846169 - Inspector cited: 19.15.29 Releases Surface Leaks /Spills Remove contamination and dispose, per rule requirements.

Form C-141

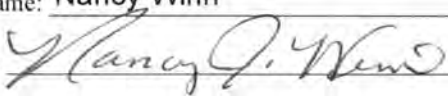
State of New Mexico
Oil Conservation Division

Page 2

Incident ID	NAPP2323540131
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 checked="" 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 checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Nancy Winn</u>	Title: <u>Geoscience Analyst</u>
Signature: <u></u>	Date: <u>8/22/2023</u>
email: <u>nwinn@sbcglobal.net</u>	Telephone: <u>281-793-5452</u>
<u>OCD Only</u>	
Received by: <u>Shelly Wells</u>	Date: <u>8/25/2023</u>

Incident ID	nAPP2323540131
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><50</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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nAPP2323540131
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: Nancy Winn Title: Geoscience AnalystSignature:  Date: 9/12/2023email: mwinn@sbcglobal.net Telephone: 281-793-5452**OCD Only**

Received by: _____ Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

Page 5

Incident ID	nAPP2323540131
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Nancy WinnTitle: Geoscience AnalystSignature: Date: 01/31/2024email: nwinn@sbcglobal.netTelephone: 218-793-5452**OCD Only**

Received by: _____ Date: _____

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

Signature: _____

Date: _____

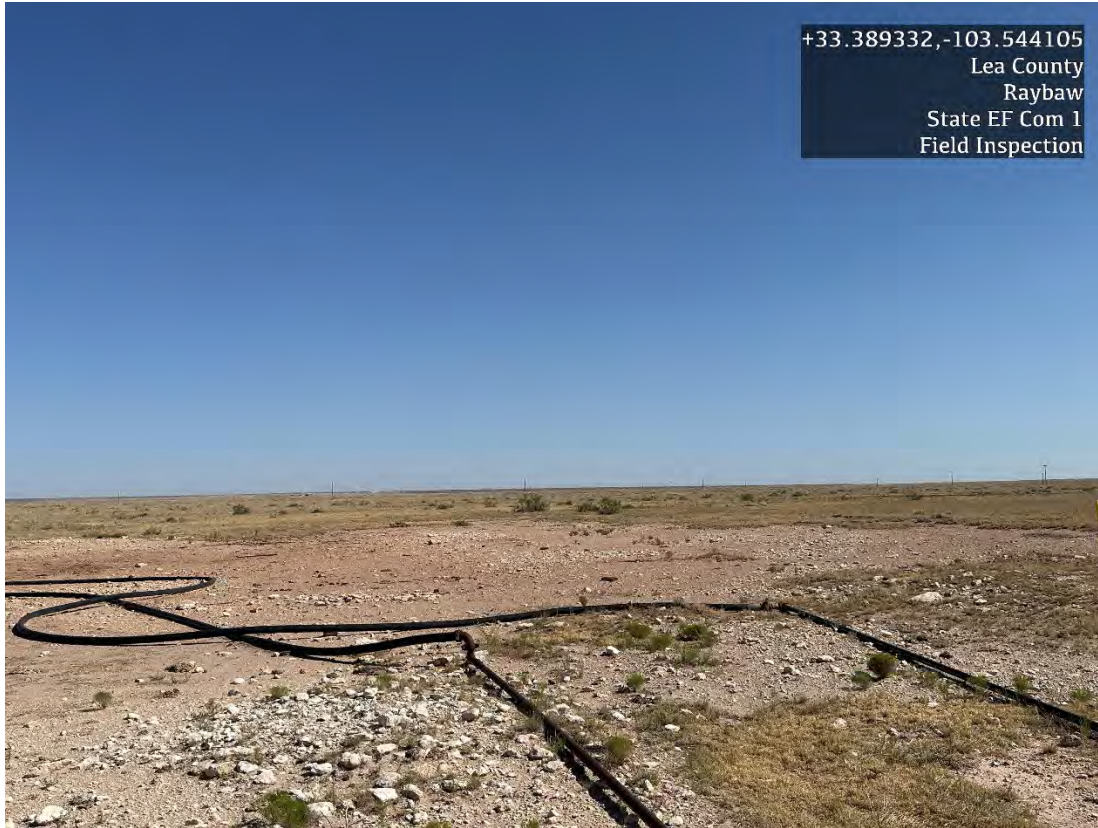


Pima Environmental Services

Appendix D

Photographic Documentation











Pima Environmental Services

Appendix E

Laboratory Reports

Report to:
Tom Bynum



5796 U.S. Hwy 64
Farmington, NM 87401

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: State EF Com #1

Work Order: E308187

Job Number: 21064-0001

Received: 8/25/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/31/23

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.

Date Reported: 8/31/23

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: State EF Com #1
Workorder: E308187
Date Received: 8/25/2023 5:30:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/25/2023 5:30:00AM, under the Project Name: State EF Com #1.

The analytical test results summarized in this report with the Project Name: State EF Com #1 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:

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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:	State EF Com #1	Reported: 08/31/23 17:02
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - Surface	E308187-01A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
S2 - Surface	E308187-02A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
S3 - Surface	E308187-03A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
S4 - Surface	E308187-04A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
S5 - Surface	E308187-05A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
S6 - Surface	E308187-06A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
S7 - Surface	E308187-07A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
S8 - Surface	E308187-08A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
S9 - Surface	E308187-09A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
S1 - 2'	E308187-10A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
S2 - 2'	E308187-11A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
S3 - 2'	E308187-12A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
S4 - 2'	E308187-13A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
S5 - 2'	E308187-14A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
S6 - 2'	E308187-15A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
S7 - 2'	E308187-16A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
S8 - 2'	E308187-17A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
S9 - 2'	E308187-18A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
S1 - 4'	E308187-19A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
S2 - 4'	E308187-20A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
S3 - 4'	E308187-21A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
S4 - 4'	E308187-22A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
S5 - 4'	E308187-23A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
S6 - 4'	E308187-24A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
S7 - 4'	E308187-25A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
S8 - 4'	E308187-26A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.
S9 - 4'	E308187-27A	Soil	08/23/23	08/25/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: State EF Com #1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
8/31/2023 5:02:16PM

S1 - Surface

E308187-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.3 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2335047	
Diesel Range Organics (C10-C28)	26.5	25.0	1	08/29/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	96.6 %	50-200		08/29/23	08/30/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2335032	
Chloride	1550	200	10	08/29/23	08/30/23	



Sample Data

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

Project Name: State EF Com #1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
8/31/2023 5:02:16PM

S2 - Surface

E308187-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2334087
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2334087
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.1 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2335047
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	98.1 %	50-200		08/29/23	08/30/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2335032
Chloride	723	200	10	08/29/23	08/29/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 8/31/2023 5:02:16PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S3 - Surface
E308187-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
Surrogate: 4-Bromochlorobenzene-PID	93.9 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.0 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2335047	
Diesel Range Organics (C10-C28)	102	25.0	1	08/29/23	08/30/23	
Oil Range Organics (C28-C36)	92.3	50.0	1	08/29/23	08/30/23	
Surrogate: n-Nonane	97.6 %	50-200		08/29/23	08/30/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2335032	
Chloride	2270	400	20	08/29/23	08/29/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 8/31/2023 5:02:16PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S4 - Surface
E308187-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
Surrogate: 4-Bromochlorobenzene-PID	92.6 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.9 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2335047	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/30/23	
Surrogate: n-Nonane	102 %	50-200		08/29/23	08/30/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2335032	
Chloride	806	20.0	1	08/29/23	08/29/23	



Sample Data

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

Project Name: State EF Com #1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
8/31/2023 5:02:16PM

S5 - Surface

E308187-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.5 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2335047	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	97.9 %	50-200		08/29/23	08/30/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2335032	
Chloride	659	200	10	08/29/23	08/29/23	



Sample Data

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

Project Name: State EF Com #1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
8/31/2023 5:02:16PM

S6 - Surface

E308187-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.1 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2335047	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	97.7 %	50-200		08/29/23	08/30/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2335032	
Chloride	802	20.0	1	08/29/23	08/29/23	



Sample Data

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

Project Name: State EF Com #1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
8/31/2023 5:02:16PM

S7 - Surface

E308187-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.2 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.1 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2335047	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	99.1 %	50-200		08/29/23	08/30/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2335032	
Chloride	744	20.0	1	08/29/23	08/29/23	



Sample Data

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

Project Name: State EF Com #1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
8/31/2023 5:02:16PM

S8 - Surface

E308187-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2334087
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		93.5 %	70-130	08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2334087
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.2 %	70-130	08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2335047
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	08/29/23	08/30/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2335032
Chloride	728	20.0	1	08/29/23	08/29/23	



Sample Data

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

Project Name: State EF Com #1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
8/31/2023 5:02:16PM

S9 - Surface

E308187-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.9 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.5 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2335047	
Diesel Range Organics (C10-C28)	92.5	25.0	1	08/29/23	08/30/23	
Oil Range Organics (C28-C36)	76.7	50.0	1	08/29/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	96.1 %	50-200		08/29/23	08/30/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2335032	
Chloride	2360	200	10	08/29/23	08/29/23	



Sample Data

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

Project Name: State EF Com #1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
8/31/2023 5:02:16PM

S1 - 2'

E308187-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.3 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.8 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2335047	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	92.2 %	50-200		08/29/23	08/30/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2335032	
Chloride	374	20.0	1	08/29/23	08/29/23	



Sample Data

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

Project Name: State EF Com #1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
8/31/2023 5:02:16PM

S2 - 2'

E308187-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.0 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2335047	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	95.3 %	50-200		08/29/23	08/30/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2335032	
Chloride	444	20.0	1	08/29/23	08/29/23	



Sample Data

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

Project Name: State EF Com #1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
8/31/2023 5:02:16PM

S3 - 2'

E308187-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.1 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.0 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2335047	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	95.6 %	50-200		08/29/23	08/30/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2335032	
Chloride	452	20.0	1	08/29/23	08/30/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 8/31/2023 5:02:16PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S4 - 2'

E308187-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.6 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.2 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2335047	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	91.8 %	50-200		08/29/23	08/30/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2335032	
Chloride	466	20.0	1	08/29/23	08/30/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 8/31/2023 5:02:16PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S5 - 2'

E308187-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.4 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2335047	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	95.0 %	50-200		08/29/23	08/30/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2335032	
Chloride	436	20.0	1	08/29/23	08/30/23	



Sample Data

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

Project Name: State EF Com #1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
8/31/2023 5:02:16PM

S6 - 2'

E308187-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.5 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.2 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2335047	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	96.1 %	50-200		08/29/23	08/30/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2335032	
Chloride	386	20.0	1	08/29/23	08/30/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 8/31/2023 5:02:16PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S7 - 2'

E308187-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
Surrogate: 4-Bromochlorobenzene-PID	95.3 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.7 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2335047	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/30/23	
Surrogate: n-Nonane	95.0 %	50-200		08/29/23	08/30/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2335032	
Chloride	423	20.0	1	08/29/23	08/30/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 8/31/2023 5:02:16PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S8 - 2'

E308187-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
Surrogate: 4-Bromochlorobenzene-PID	94.8 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.6 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2335047	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/30/23	
Surrogate: n-Nonane	92.5 %	50-200		08/29/23	08/30/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2335032	
Chloride	424	20.0	1	08/29/23	08/30/23	



Sample Data

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

Project Name: State EF Com #1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
8/31/2023 5:02:16PM

S9 - 2'

E308187-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.0 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.5 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2335047	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	91.1 %	50-200		08/29/23	08/30/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2335032	
Chloride	429	20.0	1	08/29/23	08/30/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 8/31/2023 5:02:16PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S1 - 4'

E308187-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Benzene	ND	0.0250	1	08/25/23	08/26/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/26/23	
Toluene	ND	0.0250	1	08/25/23	08/26/23	
o-Xylene	ND	0.0250	1	08/25/23	08/26/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/26/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/26/23	
Surrogate: 4-Bromochlorobenzene-PID	94.6 %	70-130		08/25/23	08/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.0 %	70-130		08/25/23	08/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2335047	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/30/23	
Surrogate: n-Nonane	97.9 %	50-200		08/29/23	08/30/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2335032	
Chloride	ND	20.0	1	08/29/23	08/30/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 8/31/2023 5:02:16PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S2 - 4'

E308187-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Benzene	ND	0.0250	1	08/25/23	08/26/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/26/23	
Toluene	ND	0.0250	1	08/25/23	08/26/23	
o-Xylene	ND	0.0250	1	08/25/23	08/26/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/26/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/26/23	
Surrogate: 4-Bromochlorobenzene-PID	95.5 %	70-130		08/25/23	08/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2334087	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.6 %	70-130		08/25/23	08/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2335047	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/30/23	
Surrogate: n-Nonane	96.5 %	50-200		08/29/23	08/30/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2335032	
Chloride	445	20.0	1	08/29/23	08/30/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 8/31/2023 5:02:16PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S3 - 4'

E308187-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	0.0459	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.4 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	83.9 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2335049	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/31/23	
<i>Surrogate: n-Nonane</i>						
	96.5 %	50-200		08/29/23	08/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2335034	
Chloride	ND	20.0	1	08/29/23	08/30/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 8/31/2023 5:02:16PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S4 - 4'

E308187-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
Surrogate: 4-Bromochlorobenzene-PID	93.0 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	83.7 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2335049	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/31/23	
Surrogate: n-Nonane	98.5 %	50-200		08/29/23	08/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2335034	
Chloride	ND	20.0	1	08/29/23	08/30/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 8/31/2023 5:02:16PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S5 - 4'

E308187-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
Surrogate: 4-Bromochlorobenzene-PID	93.4 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	83.6 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2335049	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/31/23	
Surrogate: n-Nonane	115 %	50-200		08/29/23	08/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2335034	
Chloride	ND	20.0	1	08/29/23	08/30/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 8/31/2023 5:02:16PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S6 - 4'

E308187-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
Surrogate: 4-Bromochlorobenzene-PID	93.6 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	83.9 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2335049	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/31/23	
Surrogate: n-Nonane	99.2 %	50-200		08/29/23	08/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2335034	
Chloride	ND	20.0	1	08/29/23	08/31/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 8/31/2023 5:02:16PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S7 - 4'

E308187-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Benzene	ND	0.0250	1	08/25/23	08/25/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/25/23	
Toluene	ND	0.0250	1	08/25/23	08/25/23	
o-Xylene	ND	0.0250	1	08/25/23	08/25/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/25/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/25/23	
Surrogate: 4-Bromochlorobenzene-PID	93.5 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	83.9 %	70-130		08/25/23	08/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2335049	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/31/23	
Surrogate: n-Nonane	103 %	50-200		08/29/23	08/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2335034	
Chloride	ND	20.0	1	08/29/23	08/31/23	



Sample Data

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

Project Name: State EF Com #1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
8/31/2023 5:02:16PM

S8 - 4'

E308187-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Benzene	ND	0.0250	1	08/25/23	08/26/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/26/23	
Toluene	ND	0.0250	1	08/25/23	08/26/23	
o-Xylene	ND	0.0250	1	08/25/23	08/26/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/26/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/26/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		08/25/23	08/26/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/26/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.2 %	70-130		08/25/23	08/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2335049	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/31/23	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		08/29/23	08/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2335034	
Chloride	ND	20.0	1	08/29/23	08/31/23	



Sample Data

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

Project Name: State EF Com #1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
8/31/2023 5:02:16PM

S9 - 4'

E308187-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Benzene	ND	0.0250	1	08/25/23	08/26/23	
Ethylbenzene	ND	0.0250	1	08/25/23	08/26/23	
Toluene	ND	0.0250	1	08/25/23	08/26/23	
o-Xylene	ND	0.0250	1	08/25/23	08/26/23	
p,m-Xylene	ND	0.0500	1	08/25/23	08/26/23	
Total Xylenes	ND	0.0250	1	08/25/23	08/26/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.7 %	70-130		08/25/23	08/26/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2334085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/23	08/26/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	83.9 %	70-130		08/25/23	08/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2335049	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/23	08/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/23	08/31/23	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		08/29/23	08/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2335034	
Chloride	ND	20.0	1	08/29/23	08/31/23	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 8/31/2023 5:02:16PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Volatile Organics by EPA 8021B

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 (2334085-BLK1) Prepared: 08/25/23 Analyzed: 08/25/23

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	7.24		8.00		90.5	70-130			

LCS (2334085-BS1) Prepared: 08/25/23 Analyzed: 08/25/23

Benzene	4.96	0.0250	5.00		99.3	70-130			
Ethylbenzene	4.86	0.0250	5.00		97.3	70-130			
Toluene	5.02	0.0250	5.00		100	70-130			
o-Xylene	4.99	0.0250	5.00		99.8	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.27		8.00		90.8	70-130			

Matrix Spike (2334085-MS1) Source: E308183-01 Prepared: 08/25/23 Analyzed: 08/25/23

Benzene	4.93	0.0250	5.00	ND	98.7	54-133			
Ethylbenzene	4.85	0.0250	5.00	ND	97.0	61-133			
Toluene	5.00	0.0250	5.00	ND	100	61-130			
o-Xylene	4.98	0.0250	5.00	ND	99.6	63-131			
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131			
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	70-130			

Matrix Spike Dup (2334085-MSD1) Source: E308183-01 Prepared: 08/25/23 Analyzed: 08/25/23

Benzene	4.94	0.0250	5.00	ND	98.8	54-133	0.130	20	
Ethylbenzene	4.84	0.0250	5.00	ND	96.9	61-133	0.0929	20	
Toluene	5.00	0.0250	5.00	ND	100	61-130	0.00300	20	
o-Xylene	4.99	0.0250	5.00	ND	99.9	63-131	0.240	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	0.122	20	
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131	0.00199	20	
Surrogate: 4-Bromochlorobenzene-PID	7.34		8.00		91.8	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 8/31/2023 5:02:16PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Volatile Organics by EPA 8021B

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 (2334087-BLK1) Prepared: 08/25/23 Analyzed: 08/25/23

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	7.43		8.00		92.8	70-130			

LCS (2334087-BS1) Prepared: 08/25/23 Analyzed: 08/25/23

Benzene	5.07	0.0250	5.00		101	70-130			
Ethylbenzene	5.10	0.0250	5.00		102	70-130			
Toluene	5.14	0.0250	5.00		103	70-130			
o-Xylene	5.12	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.6	70-130			

Matrix Spike (2334087-MS1) Source: E308187-04 Prepared: 08/25/23 Analyzed: 08/25/23

Benzene	4.88	0.0250	5.00	ND	97.6	54-133			
Ethylbenzene	4.94	0.0250	5.00	ND	98.8	61-133			
Toluene	4.96	0.0250	5.00	ND	99.2	61-130			
o-Xylene	4.96	0.0250	5.00	ND	99.3	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.57		8.00		94.6	70-130			

Matrix Spike Dup (2334087-MSD1) Source: E308187-04 Prepared: 08/25/23 Analyzed: 08/25/23

Benzene	5.08	0.0250	5.00	ND	102	54-133	3.89	20	
Ethylbenzene	5.13	0.0250	5.00	ND	103	61-133	3.88	20	
Toluene	5.16	0.0250	5.00	ND	103	61-130	3.94	20	
o-Xylene	5.16	0.0250	5.00	ND	103	63-131	3.77	20	
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131	4.04	20	
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131	3.95	20	
Surrogate: 4-Bromochlorobenzene-PID	7.42		8.00		92.7	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 8/31/2023 5:02:16PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

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 (2334085-BLK1) Prepared: 08/25/23 Analyzed: 08/25/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.68		8.00		83.5	70-130			

LCS (2334085-BS2) Prepared: 08/25/23 Analyzed: 08/25/23

Gasoline Range Organics (C6-C10)	47.4	20.0	50.0		94.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.76		8.00		84.5	70-130			

Matrix Spike (2334085-MS2) Source: E308183-01 Prepared: 08/25/23 Analyzed: 08/25/23

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.83		8.00		85.3	70-130			

Matrix Spike Dup (2334085-MSD2) Source: E308183-01 Prepared: 08/25/23 Analyzed: 08/25/23

Gasoline Range Organics (C6-C10)	49.9	20.0	50.0	ND	99.8	70-130	3.17	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.91		8.00		86.4	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 8/31/2023 5:02:16PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

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 (2334087-BLK1) Prepared: 08/25/23 Analyzed: 08/25/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.18		8.00		89.8	70-130			

LCS (2334087-BS2) Prepared: 08/25/23 Analyzed: 08/25/23

Gasoline Range Organics (C6-C10)	54.0	20.0	50.0		108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			

Matrix Spike (2334087-MS2) Source: E308187-04 Prepared: 08/25/23 Analyzed: 08/25/23

Gasoline Range Organics (C6-C10)	54.3	20.0	50.0	ND	109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130			

Matrix Spike Dup (2334087-MSD2) Source: E308187-04 Prepared: 08/25/23 Analyzed: 08/25/23

Gasoline Range Organics (C6-C10)	55.1	20.0	50.0	ND	110	70-130	1.38	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 8/31/2023 5:02:16PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

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 (2335047-BLK1)					Prepared: 08/29/23 Analyzed: 08/30/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.6		50.0		99.2	50-200			

LCS (2335047-BS1)					Prepared: 08/29/23 Analyzed: 08/30/23				
Diesel Range Organics (C10-C28)	241	25.0	250		96.2	38-132			
Surrogate: n-Nonane	47.0		50.0		93.9	50-200			

Matrix Spike (2335047-MS1)					Source: E308187-07		Prepared: 08/29/23 Analyzed: 08/30/23		
Diesel Range Organics (C10-C28)	247	25.0	250	ND	99.0	38-132			
Surrogate: n-Nonane	47.9		50.0		95.9	50-200			

Matrix Spike Dup (2335047-MSD1)					Source: E308187-07		Prepared: 08/29/23 Analyzed: 08/30/23		
Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.8	38-132	0.206	20	
Surrogate: n-Nonane	47.9		50.0		95.8	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 8/31/2023 5:02:16PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

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 (2335049-BLK1)					Prepared: 08/29/23 Analyzed: 08/31/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.5		50.0		115	50-200			

LCS (2335049-BS1)					Prepared: 08/29/23 Analyzed: 08/31/23				
Diesel Range Organics (C10-C28)	256	25.0	250		102	38-132			
Surrogate: n-Nonane	53.1		50.0		106	50-200			

Matrix Spike (2335049-MS1)					Source: E308183-12		Prepared: 08/29/23 Analyzed: 08/31/23		
Diesel Range Organics (C10-C28)	271	25.0	250	ND	109	38-132			
Surrogate: n-Nonane	49.8		50.0		99.7	50-200			

Matrix Spike Dup (2335049-MSD1)					Source: E308183-12		Prepared: 08/29/23 Analyzed: 08/31/23		
Diesel Range Organics (C10-C28)	266	25.0	250	ND	107	38-132	1.91	20	
Surrogate: n-Nonane	46.8		50.0		93.6	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 8/31/2023 5:02:16PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Anions by EPA 300.0/9056A

Analyst: BA

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 (2335032-BLK1)					Prepared: 08/29/23 Analyzed: 08/29/23				
Chloride	ND	20.0							
LCS (2335032-BS1)					Prepared: 08/29/23 Analyzed: 08/29/23				
Chloride	267	20.0	250		107	90-110			
Matrix Spike (2335032-MS1)					Source: E308187-01		Prepared: 08/29/23 Analyzed: 08/30/23		
Chloride	2120	200	250	1550	226	80-120			M4
Matrix Spike Dup (2335032-MSD1)					Source: E308187-01		Prepared: 08/29/23 Analyzed: 08/30/23		
Chloride	1980	200	250	1550	169	80-120	6.94	20	M4



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported:
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/31/2023 5:02:16PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2335034-BLK1)					Prepared: 08/29/23 Analyzed: 08/30/23				
Chloride	ND	20.0							
LCS (2335034-BS1)					Prepared: 08/29/23 Analyzed: 08/31/23				
Chloride	258	20.0	250		103	90-110			
Matrix Spike (2335034-MS1)					Source: E308183-01		Prepared: 08/29/23 Analyzed: 08/30/23		
Chloride	1980	40.0	250	1800	74.5	80-120			M4
Matrix Spike Dup (2335034-MSD1)					Source: E308183-01		Prepared: 08/29/23 Analyzed: 08/30/23		
Chloride	1810	40.0	250	1800	3.87	80-120	9.31	20	M4

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:	State EF Com #1	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	08/31/23 17:02

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- 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 2 of 3

Client: Pima Environmental Services Project: State EF Com #1 Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:					Bill To Attention: Address: City, State, Zip: Phone: Email: Pima Project # 216-10					Lab Use Only Lab WO# E308187 Job Number 1210104-0001					TAT 1D 2D 3D Standard				EPA Program CWA SDWA	
Analysis and Method DRO/DRO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8250 Metals 6010 Chloride 300.0 BGDOC NM BGDOC TX										State NM CO UT AZ TX		RCRA								
Remarks																				

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number
2:50	8/23/24	S	1	S2-2'	11
2:55				S3-2'	12
3:00				S4-2'	13
3:05				S5-2'	14
3:10				S6-2'	15
3:15				S7-2'	16
3:20				S8-2'	17
3:25				S9-2'	18
3:30				S1-4'	19
3:35				S2-4'	20

Additional Instructions: Billing #: Pima

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.

Relinquished by: (Signature) APB Date 8-24-23 Time 2:00 Received by: (Signature) Audriana Benavidez Date 8-24-23 Time 1400

Relinquished by: (Signature) Michelle Gonzalez Date 8-24-23 Time 1630 Received by: (Signature) Adrian Miso Date 8-24-23 Time 1715

Relinquished by: (Signature) Adrian Miso Date 8-24-23 Time 2345 Received by: (Signature) Carth Man Date 8-25-23 Time 5:30

Sample Matrix: S - Soil, SL - Solid, SG - Sludge, A - Aqueous, O - Other

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.

Received on ice: Y/N

AVG Temp °C 4

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Project Information

Chain of Custody

Page 1 of 3

Client: Pima Environmental Services Project: State EF CDM #1 Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:					Attention: P Address: City, State, Zip: Phone: Email: Pima Project # 26-10					Lab Use Only Lab WO# E308187 Job Number 21004-0001 Analysis and Method					TAT 1D 2D 3D Standard X				EPA Program CWA SDWA RCRA	
														State NM CO UT AZ TX X		Remarks				
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							
2:00	8/23/23	S	1	S1-Surface	1							X								
2:05				S2-Surface	2															
2:10				S3-Surface	3															
2:15				S4-Surface	4															
2:20				S5-Surface	5															
2:25				S6-Surface	6															
2:30				S7-Surface	7															
2:35				S8-Surface	8															
2:40				S9-Surface	9															
2:45				S1-2'	10															
Additional Instructions: Billing #: Pima																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																				
Relinquished by: (Signature) <i>[Signature]</i> Date 8-24-23 Time 2:00 Received by: (Signature) <i>[Signature]</i> Date 8-24-23 Time 1:00																				
Relinquished by: (Signature) <i>[Signature]</i> Date 8-24-23 Time 1630 Received by: (Signature) <i>[Signature]</i> Date 8-24-23 Time 1715																				
Relinquished by: (Signature) <i>[Signature]</i> Date 8-24-23 Time 2345 Received by: (Signature) <i>[Signature]</i> Date 8/25/23 Time 5:30																				
Sample Matrix: S - Soil, SD - Solid, Sg - Sludge, A - Aqueous, O - Other																				
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.																				
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																				

Project Information

Chain of Custody

Page 3 of 3

Client: Pima Environmental Services Project: State EF Com #1 Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip Hobbs, NM, 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:					Bill To Attention: Address: City, State, Zip Phone: Email: Pima Project # 26-10					Lab Use Only Lab WO# F308187 Job Number 21064-0001 Analysis and Method DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 NM BGDOC BGDOC TX					TAT 1D 2D 3D Standard X				EPA Program CWA SDWA RCRA	
										State NM CO UT AZ TX X				Remarks						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number															
3:40	8/23/24	S	1	S3-4'	21															
3:45				S4-4'	22															
3:50				S5-4'	23															
3:55				S6-4'	24															
4:10				S7-4'	25															
4:05				S8-4'	26															
4:10				S9-4'	27															
Additional Instructions: Billing #: Pima																				
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.																				
Relinquished by: (Signature) <u>AS</u> Date <u>8-24-23</u> Time <u>2:00</u> Received by: (Signature) <u>Michelle Cripe</u> Date <u>8-24-23</u> Time <u>1400</u>																				
Relinquished by: (Signature) <u>Michelle Cripe</u> Date <u>8-24-23</u> Time <u>1630</u> Received by: (Signature) <u>Michelle Cripe</u> Date <u>8-24-23</u> Time <u>1715</u>																				
Relinquished by: (Signature) <u>Michelle Cripe</u> Date <u>8-24-23</u> Time <u>2345</u> Received by: (Signature) <u>Michelle Cripe</u> Date <u>8-25-23</u> Time <u>5:30</u>																				
Sample Matrix: S - Soil, Sa - Solid, Sg - Sludge, A - Aqueous, O - Other																				
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																				
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				



Envirotech Analytical Laboratory

Printed: 8/25/2023 10:32:14AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	08/25/23 05:30	Work Order ID:	E308187
Phone:	(575) 631-6977	Date Logged In:	08/24/23 15:29	Logged In By:	Caitlin Mars
Email:	tom@pimaoil.com	Due Date:	08/31/23 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: CourierComments/ResolutionSample 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? Yes

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.

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: State EF Com #1

Work Order: E401140

Job Number: 21064-0001

Received: 1/23/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/29/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 1/29/24

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: State EF Com #1
Workorder: E401140
Date Received: 1/23/2024 6:00:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/23/2024 6:00:00AM, under the Project Name: State EF Com #1.

The analytical test results summarized in this report with the Project Name: State EF Com #1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 01/29/24 14:57
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW1 - COMP	E401140-01A	Soil	01/22/24	01/23/24	Glass Jar, 2 oz.
SW2 - COMP	E401140-02A	Soil	01/22/24	01/23/24	Glass Jar, 2 oz.
SW3 - COMP	E401140-03A	Soil	01/22/24	01/23/24	Glass Jar, 2 oz.
SW4 - COMP	E401140-04A	Soil	01/22/24	01/23/24	Glass Jar, 2 oz.
SW5 - COMP	E401140-05A	Soil	01/22/24	01/23/24	Glass Jar, 2 oz.
SW6 - COMP	E401140-06A	Soil	01/22/24	01/23/24	Glass Jar, 2 oz.
BG1	E401140-07A	Soil	01/22/24	01/23/24	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/29/2024 2:57:09PM

SW1 - COMP

E401140-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2404028
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	93.2 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2404028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.3 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404042
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/26/24	
Surrogate: n-Nonane	117 %	50-200		01/24/24	01/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2404039
Chloride	ND	20.0	1	01/24/24	01/24/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 1/29/2024 2:57:09PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

SW2 - COMP
E401140-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404028	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	95.2 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.3 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404042	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/24/24	
Surrogate: n-Nonane	122 %	50-200		01/24/24	01/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404039	
Chloride	ND	20.0	1	01/24/24	01/24/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 1/29/2024 2:57:09PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

SW3 - COMP
E401140-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404028	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	94.6 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.1 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404042	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/24/24	
Surrogate: n-Nonane	106 %	50-200		01/24/24	01/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404039	
Chloride	ND	20.0	1	01/24/24	01/24/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 1/29/2024 2:57:09PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

SW4 - COMP
E401140-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2404028	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	97.2 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2404028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.6 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404042	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/24/24	
Surrogate: n-Nonane	105 %	50-200		01/24/24	01/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404039	
Chloride	ND	20.0	1	01/24/24	01/24/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 1/29/2024 2:57:09PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

SW5 - COMP
E401140-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404028	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	94.3 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.4 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404042	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/24/24	
Surrogate: n-Nonane	129 %	50-200		01/24/24	01/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404039	
Chloride	ND	20.0	1	01/24/24	01/24/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 1/29/2024 2:57:09PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

SW6 - COMP
E401140-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404028	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	96.6 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.7 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404042	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/24/24	
Surrogate: n-Nonane	126 %	50-200		01/24/24	01/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404039	
Chloride	ND	20.0	1	01/24/24	01/24/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 1/29/2024 2:57:09PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

BG1

E401140-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404028	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	95.1 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.7 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404042	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/24/24	
Surrogate: n-Nonane	108 %	50-200		01/24/24	01/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404039	
Chloride	ND	20.0	1	01/24/24	01/24/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 1/29/2024 2:57:09PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Volatile Organics by EPA 8021B

Analyst: EG

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 (2404028-BLK1) Prepared: 01/23/24 Analyzed: 01/23/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.1	70-130			

LCS (2404028-BS1) Prepared: 01/23/24 Analyzed: 01/24/24

Benzene	4.41	0.0250	5.00		88.2	70-130			
Ethylbenzene	4.32	0.0250	5.00		86.5	70-130			
Toluene	4.39	0.0250	5.00		87.7	70-130			
o-Xylene	4.35	0.0250	5.00		87.0	70-130			
p,m-Xylene	8.81	0.0500	10.0		88.1	70-130			
Total Xylenes	13.2	0.0250	15.0		87.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.4	70-130			

Matrix Spike (2404028-MS1) Source: E401126-08 Prepared: 01/23/24 Analyzed: 01/24/24

Benzene	4.87	0.0250	5.00	ND	97.4	54-133			
Ethylbenzene	4.77	0.0250	5.00	ND	95.4	61-133			
Toluene	4.84	0.0250	5.00	ND	96.8	61-130			
o-Xylene	4.79	0.0250	5.00	ND	95.9	63-131			
p,m-Xylene	9.69	0.0500	10.0	ND	96.9	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.4	70-130			

Matrix Spike Dup (2404028-MSD1) Source: E401126-08 Prepared: 01/23/24 Analyzed: 01/24/24

Benzene	5.05	0.0250	5.00	ND	101	54-133	3.67	20	
Ethylbenzene	4.97	0.0250	5.00	ND	99.3	61-133	3.99	20	
Toluene	5.03	0.0250	5.00	ND	101	61-130	3.78	20	
o-Xylene	4.98	0.0250	5.00	ND	99.5	63-131	3.73	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	3.98	20	
Total Xylenes	15.1	0.0250	15.0	ND	100	63-131	3.90	20	
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.5	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 1/29/2024 2:57:09PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

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 (2404028-BLK1) Prepared: 01/23/24 Analyzed: 01/23/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.2	70-130			

LCS (2404028-BS2) Prepared: 01/23/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	46.5	20.0	50.0		93.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			

Matrix Spike (2404028-MS2) Source: E401126-08 Prepared: 01/23/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.1	70-130			

Matrix Spike Dup (2404028-MSD2) Source: E401126-08 Prepared: 01/23/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	48.6	20.0	50.0	ND	97.2	70-130	6.44	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.3	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported: 1/29/2024 2:57:09PM
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

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 (2404042-BLK1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.4		50.0		105	50-200			

LCS (2404042-BS1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Diesel Range Organics (C10-C28)	258	25.0	250		103	38-132			
Surrogate: n-Nonane	51.7		50.0		103	50-200			

Matrix Spike (2404042-MS1)					Source: E401147-04		Prepared: 01/24/24 Analyzed: 01/26/24		
Diesel Range Organics (C10-C28)	5040	500	250	5740	NR	38-132			M4
Surrogate: n-Nonane	47.7		50.0		95.4	50-200			

Matrix Spike Dup (2404042-MSD1)					Source: E401147-04		Prepared: 01/24/24 Analyzed: 01/26/24		
Diesel Range Organics (C10-C28)	5800	500	250	5740	25.1	38-132	14.1	20	M4
Surrogate: n-Nonane	50.0		50.0		100	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	Reported:
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/29/2024 2:57:09PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2404039-BLK1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Chloride	ND	20.0							
LCS (2404039-BS1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Chloride	245	20.0	250		98.1	90-110			
Matrix Spike (2404039-MS1)					Source: E401139-04		Prepared: 01/24/24 Analyzed: 01/24/24		
Chloride	314	20.0	250	64.5	99.6	80-120			
Matrix Spike Dup (2404039-MSD1)					Source: E401139-04		Prepared: 01/24/24 Analyzed: 01/24/24		
Chloride	314	20.0	250	64.5	99.9	80-120	0.181	20	

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



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	State EF Com #1	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	01/29/24 14:57

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Project Information

Chain of Custody

Page 1 of 1

Client: Pima Environmental Services					Bill To		Lab Use Only				TAT				EPA Program							
Project: <u>State EF Com. #1</u>					Attention: <u>Ray Daw</u>		Lab WO# <u>E 401140</u>		Job Number <u>210640001</u>		1D	2D	3D	Standard	CWA	SDWA						
Project Manager: Tom Bynum					Address:		Analysis and Method								RCRA							
Address: 5614 N. Lovington Hwy.					City, State, Zip																	
City, State, Zip: Hobbs, NM, 88240					Phone:		DRO/ORO by 8015		GRO/DRO by 8015		BTX by 8021		VOC by 8260		Metals 6010		Chloride 300.0		BGDOC NM		BGDOC TX	
Phone: 580-748-1613					Email:																	
Email: tom@pimaoil.com					Pima Project # <u>26-10</u>																	
Report due by:																						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks																
8:31	1/22	S		SW1-Comp.	1	X																
8:49				SW2-Comp.	2																	
8:51				SW3-Comp.	3																	
9:13				SW4-Comp.	4																	
9:28				SW5-Comp.	5																	
9:35				SW6-Comp.	6																	
9:56				BGI	7																	

Additional Instructions:

Bill to Pima Environmental

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

Sampled by:

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

Relinquished by: (Signature) <u>Karime Adame</u>	Date <u>1/22/24</u>	Time <u>2:15</u>	Received by: (Signature) <u>Nichelle Rayk</u>	Date <u>1-22-24</u>	Time <u>1415</u>	Lab Use Only	
Relinquished by: (Signature) <u>Nichelle Rayk</u>	Date <u>1-22-24</u>	Time <u>1630</u>	Received by: (Signature) <u>Andrew Hill</u>	Date <u>1-22-24</u>	Time <u>1730</u>	Received on ice: <u>Y</u> / N	
Relinquished by: (Signature) <u>Andrew Hill</u>	Date <u>1-22-24</u>	Time <u>2400</u>	Received by: (Signature) <u>Kayla R. Hall</u>	Date <u>1-23-24</u>	Time <u>0600</u>	T1 _____ T2 _____ T3 _____	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____						AVG Temp °C <u>4</u>	
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

Envirotech Analytical Laboratory

Printed: 1/24/2024 9:05:32AM

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:	01/23/24 06:00	Work Order ID:	E401140
Phone:	(575) 631-6977	Date Logged In:	01/22/24 16:20	Logged In By:	Alexa Michaels
Email:	tom@pimaoil.com	Due Date:	01/29/24 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: CourierComments/ResolutionSample 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? Yes

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.

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

QUESTIONS

Action 312253

QUESTIONS

Operator: RAYBAW Operating, LLC 2626 Cole Avenue Dallas, TX 75204	OGRID:
	330220
	Action Number:
	312253
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2323540131
Incident Name	NAPP2323540131 STATE EF COM #001 @ 30-025-01821
Incident Type	Release Other
Incident Status	Remediation Plan Received
Incident Well	[30-025-01821] STATE EF COM #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	STATE EF COM #001
Date Release Discovered	08/02/2023
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Other Valve Crude Oil Released: 5 BBL Recovered: 0 BBL Lost: 5 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	This was a small release discovered during a recent inspection that has most likely been there for a long time. It was not caught by previous inspections, but not sure why. We have no way of knowing date of release or volume of oil or water, but believe it was from a valve leak (best guess).

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QUESTIONS, Page 2

Action 312253

QUESTIONS (continued)

Operator: RAYBAW Operating, LLC 2626 Cole Avenue Dallas, TX 75204	OGRID:
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[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Michael Lee Title: COO Email: michael@raybawoperating.com Date: 02/07/2024
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QUESTIONS, Page 3

Action 312253

QUESTIONS (continued)

Operator: RAYBAW Operating, LLC 2626 Cole Avenue Dallas, TX 75204	OGRID:
	330220
	Action Number:
	312253
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS**Site Characterization**

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

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

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
---	-----

Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.

Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

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

Chloride (EPA 300.0 or SM4500 Cl B)	2360
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	194.3
GRO+DRO (EPA SW-846 Method 8015M)	102
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	02/05/2024
On what date will (or did) the final sampling or liner inspection occur	02/09/2024
On what date will (or was) the remediation complete(d)	02/16/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	15000
What is the estimated volume (in cubic yards) that will be remediated	556

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

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

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QUESTIONS, Page 4

Action 312253

QUESTIONS (continued)

Operator: RAYBAW Operating, LLC 2626 Cole Avenue Dallas, TX 75204	OGRID:	330220
	Action Number:	312253
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	GANDY MARLEY LANDFARM/LANDFILL [FEEM0112338393]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Michael Lee Title: COO Email: michael@raybawoperating.com Date: 02/07/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 312253

QUESTIONS (continued)

Operator: RAYBAW Operating, LLC 2626 Cole Avenue Dallas, TX 75204	OGRID:
	330220
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	312253
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

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

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QUESTIONS, Page 6

Action 312253

QUESTIONS (continued)

Operator: RAYBAW Operating, LLC 2626 Cole Avenue Dallas, TX 75204	OGRID: 330220
	Action Number: 312253
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 312253

CONDITIONS

Operator: RAYBAW Operating, LLC 2626 Cole Avenue Dallas, TX 75204	OGRID:
	330220
	Action Number:
	312253
Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation Plan Approved with Conditions. At time of review, OCD will not approve proposed number of samples as illustrated on Variance Request Map as site conditions may change during remediation/excavation but the variance request is approved to collect confirmation samples no more than 400 square feet. Pursuant to what was found in inspection on 8/2/2023, the 20X20 stain around wellhead (east of the pumpjack) also needs to be addressed during the remediation. Submit remediation closure report by 6/12/24.	3/14/2024