

Incident ID	nAPP2309134922
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>51-100'</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 <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico  
Oil Conservation Division

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

Printed Name: Dale Woodall Title: Environmental Professional  
Signature: Dale Woodall Date: 6/12/2023  
email: dale.woodall@dv.com Telephone: 575-748-1839

**OCD Only**

Received by: Jocelyn Harimon Date: 06/12/2023

Incident ID	nAPP2309134922
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## Closure

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

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

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

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

Printed Name: Dale Woodall Title: Environmental Professional  
Signature: Dale Woodall Date: 6/12/2023  
email: dale.woodall@dvn.com Telephone: 575-748-1839

**OCD Only**

Received by: Jocelyn Harimon Date: 06/12/2023

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

Closure Approved by: Nelson Velez Date: 09/12/2023  
Printed Name: Nelson Velez Title: Environmental Specialist - Adv



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

June 8, 2023

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

**Re: Site Assessment, Remediation, and Closure Report**  
**Cobber 21 33 Federal Com #3H**  
**API No. 30-025-46920**  
**GPS: Latitude 32.035538 Longitude -103.47832**  
**UL -- C, 21, T26S, R34E**  
**Lea County, NM**  
**NMOCD Ref. No. NAPP2309134922**

Pima Environmental Services, LLC. (Pima) has been contracted by Devon Energy Production Company, LP (Devon) to perform a surface-stained soils assessment, remediation activities, and submit this closure report for a surface-stained writing noticed by the BLM, the release that occurred at the Cobber 21 33 Federal Com #3H (Cobber). The initial C-141 was submitted on April 7, 2023 (Appendix C). This incident was assigned Incident IDNAPP2309134922 by the New Mexico Oil Conservation Division (NMOCD).

#### Site Characterization

The Cobber is located approximately seventeen (17) miles southwest of Jal, NM. This spill site is in Unit C, Section 21, Township 26S, Range 34E, Latitude 32.035538 Longitude -103.47832, Lea County, NM. Figure 1 references a Location Map.

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

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 200 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 80 feet BGS. The closest waterway is a Red Bluff Reservoir located approximately 26.1 miles to the southwest of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29

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

Cobber 21 33 Federal Com #3H | [Devon Energy](#)



**Release Information**

**NAPP2309134922:** On March 28, 2023, The US BLM sent a written notice order on 3/28/2023 of surface-stained soils for the location. The released fluids were calculated to be approximately 9.9 barrels (bbls) of fluid.

**Remediation Activities, Site Assessment, and Soil Sampling Results**

On April 7, 2023, Pima mobilized personnel to the site to begin collecting soil samples from stained area. The laboratory results of this sampling event can be found in the following data table. A Site Map can be found in Figure 4.

4/7/2023 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY -COBBER 21 33 FEDERAL COM #003H								
Sample Date: 4/7/2023 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	1'	ND	ND	ND	81.3	74.8	156.1	793
	2'	ND	ND	ND	37.3	ND	37.3	135
	3'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
S-2	1'	ND	ND	ND	57.9	ND	57.9	924
	2'	ND	ND	ND	34	ND	34	130
	3'	ND	ND	ND	ND	ND	0	33
	4'	ND	ND	ND	ND	ND	0	ND
S-3	1'	ND	ND	ND	32.1	ND	32.1	132
	2'	ND	ND	ND	295	ND	295	137
	3'	ND	ND	ND	ND	ND	0	31
	4'	ND	ND	ND	ND	ND	0	ND
S-4	1'	ND	ND	ND	32.9	ND	32.9	177
	2'	ND	ND	ND	ND	ND	0	24.3
	3'	ND	ND	ND	ND	ND	0	31.6
	4'	ND	ND	ND	ND	ND	0	ND
S-5	1'	ND	ND	ND	29	ND	29	623
	2'	ND	ND	ND	31	ND	31	127
	3'	ND	ND	ND	ND	ND	0	27.5
	4'	ND	ND	ND	ND	ND	0	ND
S6	1'	ND	ND	ND	54.7	62.1	116.8	786
	2'	ND	ND	ND	37.5	57.9	95.4	131
	3'	ND	ND	ND	ND	ND	0	31.5
	4'	ND	ND	ND	ND	ND	0	ND
S7	1'	ND	ND	ND	46.1	51	97.1	617
	2'	ND	ND	ND	ND	ND	0	ND
	3'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
S8	1'	ND	ND	ND	57.3	70.4	127.7	834
	2'	ND	ND	ND	65.4	90.5	155.9	132
	3'	ND	ND	ND	ND	ND	0	29.4
	4'	ND	ND	ND	ND	ND	0	ND
S9	1'	ND	ND	ND	48.4	63	111.4	1120
	2'	ND	ND	ND	31.5	ND	31.5	133
	3'	ND	ND	ND	ND	ND	0	32
	4'	ND	ND	ND	ND	ND	0	ND
SW 1	6"	ND	ND	ND	ND	ND	0	ND
SW 2	6"	ND	ND	ND	ND	ND	0	ND
SW 3	6"	ND	ND	ND	ND	ND	0	ND
SW 4	6"	ND	ND	ND	ND	ND	0	ND
SW 5	6"	ND	ND	ND	ND	ND	0	ND
SW 6	6"	ND	ND	ND	ND	ND	0	ND
SW 7	6"	ND	ND	ND	ND	ND	0	ND
SW 8	6"	ND	ND	ND	ND	ND	0	ND
BG 1	6"	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

On May 28, 2023, the Devon Construction Department mobilized personnel and equipment to begin remediation activities. They began excavating the area to a depth of 2' BGS. The contaminated soil, 1,000 cubic yards was hauled to an approved, lined disposal facility and clean backfill material was brought in.

On June 1 & 2, 2023, after sending a 48-hour notification (Appendix C), Pima returned to the site to begin collecting confirmation samples of the excavation. The results of this sampling event can be found in the following table. A Confirmation Sample Map can be found in Figure 5.

6-1 &amp; 2 -2023 Confirmation Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50")									
DEVON ENERGY - COBBER 21 33 FEDERAL COM #003H									
NM Approved Laboratory Results									
Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
CS 1	6/1/2023	2'	ND	ND	ND	ND	ND	0	ND
CS 2		2'	ND	ND	ND	ND	ND	0	ND
CS 3		2'	ND	ND	ND	ND	ND	0	ND
CS 4		2'	ND	ND	ND	ND	ND	0	ND
CS 5		2'	ND	ND	ND	ND	ND	0	ND
CS 6		2'	ND	ND	ND	ND	ND	0	ND
CS 7		2'	ND	ND	ND	ND	ND	0	ND
CS 8		2'	ND	ND	ND	ND	ND	0	ND
CSW 1	6/2/2023	2'	ND	ND	ND	ND	ND	0	ND
CSW 2		2'	ND	ND	ND	ND	ND	0	ND
CSW 3		2'	ND	ND	ND	ND	ND	0	ND
CSW 4		2'	ND	ND	ND	ND	ND	0	ND
CSW 5		2'	ND	ND	ND	ND	ND	0	ND
CSW 6		2'	ND	ND	ND	ND	ND	0	ND
CSW 7		2'	ND	ND	ND	ND	ND	0	ND
CSW 8		2'	ND	ND	ND	ND	ND	0	ND
CSW 9		2'	ND	ND	ND	ND	ND	0	ND
CSW 10		2'	ND	ND	ND	ND	ND	0	ND
CSW 11		2'	ND	ND	ND	ND	ND	0	ND
CSW 12		2'	ND	ND	ND	ND	ND	0	ND
CSW 13		2'	ND	ND	ND	ND	ND	0	ND
CSW 14		2'	ND	ND	ND	ND	ND	0	ND
CSW 15		2'	ND	ND	ND	ND	ND	0	ND
CSW 16		2'	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

Based on the sample results, the bottoms and sidewalls were below NMOCD Closure Criteria 19.15.29 NMAC. The contaminated material was sufficiently removed then transported to an NMOCD approved disposal site. The excavation was then backfilled with clean like material, machine compacted and returned to its previous state. See Appendix D for Photographic Documentation.

#### Closure Request

After careful review, Pima requests that this incident, NAPP2309134922, be closed. Devon has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

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

Respectfully,

*Gio Gomez*

Gio Gomez

Project Manager

Pima Environmental Services,

**Attachments**

Figures:

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

Appendices:

- Appendix A – Referenced Water Surveys
- Appendix B – Soil Survey and Geological Data
- Appendix C – C-141 Form and 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-Site Map

5-Confirmation Sample Map



Devon Energy  
API: 30-025-46920  
Lea County, NM  
Location Map

Legend

- 17 Miles SW of Jal, NM
- Cobber 21 33 Federal Com #003H






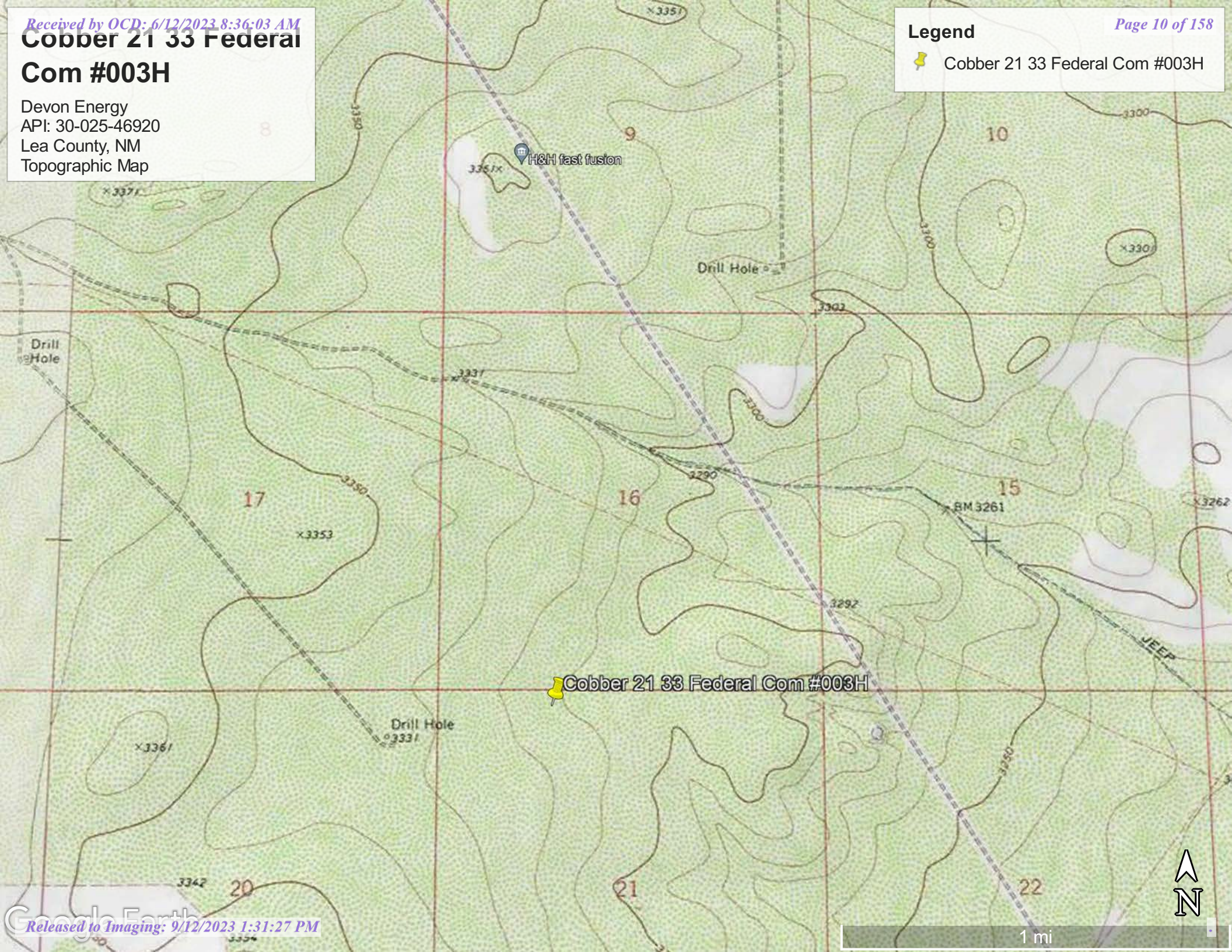
# Cobber 21 33 Federal

## Com #003H

Devon Energy  
API: 30-025-46920  
Lea County, NM  
Topographic Map

### Legend

 Cobber 21 33 Federal Com #003H



1 mi







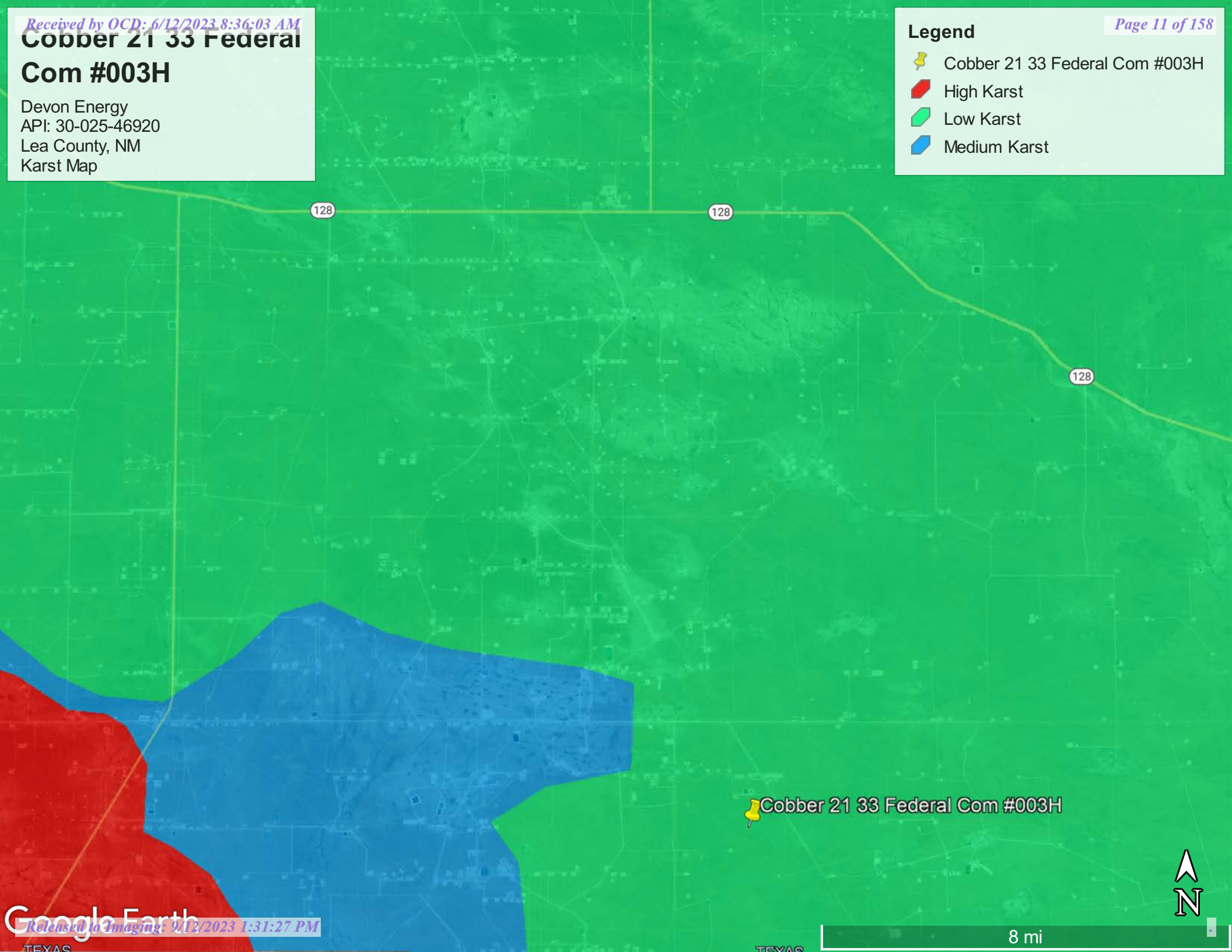
# Cobber 21 33 Federal

## Com #003H

Devon Energy  
API: 30-025-46920  
Lea County, NM  
Karst Map

### Legend





-  Cobber 21 33 Federal Com #003H
-  High Karst
-  Low Karst
-  Medium Karst



# COBBER 21 33 FEDERAL COM 3H

Devon Energy  
API: 30-025-46920  
Lea County, NM  
Site Map  
32.035538,-103.47832

## Legend

-  Cobber 21 33 Federal Com #003H
-  Samples
-  Sidewalls/Backgrounds
-  Stained Area







# Cobber 21 33 Federal Com 3H

Devon Energy  
API:30-025-46920  
Lea County, NM  
Confirmation Sample Map

## Legend

-  Cobber 21 33 Federal Com #3H
-  Confirmation Samples

Cobber 21 33 Federal Com #3H

CSW15 CSW16 CSW1 CSW3 CSW4  
CS1 CS2 CS3 CSW5  
CSW14 CS6 CSW6  
CSW13 CS4 CS5 CS7  
CSW12 CS8 CSW8 CSW7  
CSW11 CSW10

Google Earth



200 ft



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
<a href="#">C_04583 POD1</a>		CUB	LE	3	3	3	15	26S	34E	644920	3545643	1262	55		
<a href="#">C_04626 POD1</a>		CUB	LE	4	2	1	18	26S	34E	640644	3546672	3300			
<a href="#">C_02295</a>		CUB	LE	2	2	4	12	26S	33E	639865	3547624	4426	250	200	50

Average Depth to Water: **200 feet**

Minimum Depth: **200 feet**

Maximum Depth: **200 feet**

**Record Count:** 3

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

**Easting (X):** 643683.65

**Northing (Y):** 3545386.47

**Radius:** 5000

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

4/3/23 2:41 PM

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

- 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 =

- 320056103333501

Minimum number of levels = 1

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

### USGS 320056103333501 26S.33E.27.21132

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070001

Latitude 32°00'56", Longitude 103°33'35" NAD27

Land-surface elevation 3,273 feet above NAVD88

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

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

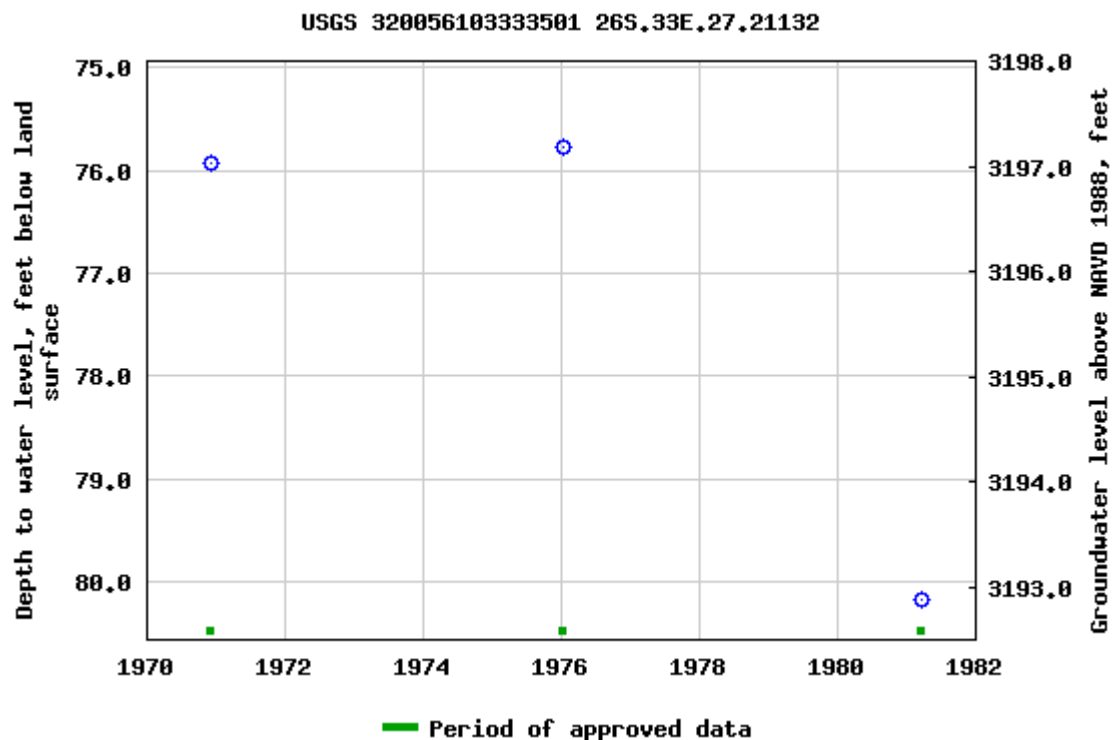
#### Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.  
[Download a presentation-quality graph](#)

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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: 2023-04-03 16:40:11 EDT

0.55 0.47 nadww01






# Cobber 21 33 Federal

## Com #003H

Devon Energy  
API: 30-025-46920  
Lea County, NM  
Surface Water Map

### Legend

-  26.01 Miles
-  Cobber 21 33 Federal Com #003H







Pima Environmental Services

**Appendix B**

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

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## Lea County, New Mexico

### PU—Pyote and Maljamar fine sands

#### Map Unit Setting

*National map unit symbol:* dmqq

*Elevation:* 3,000 to 3,900 feet

*Mean annual precipitation:* 10 to 12 inches

*Mean annual air temperature:* 60 to 62 degrees F

*Frost-free period:* 190 to 205 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Pyote and similar soils:* 46 percent

*Maljamar and similar soils:* 44 percent

*Minor components:* 10 percent

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

#### Description of Pyote

##### Setting

*Landform:* Plains

*Landform position (three-dimensional):* Rise

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Sandy eolian deposits derived from sedimentary rock

##### Typical profile

*A - 0 to 30 inches:* fine sand

*Bt - 30 to 60 inches:* fine sandy loam

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* Negligible

*Capacity of the most limiting layer to transmit water (Ksat):* High  
(2.00 to 6.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 5 percent

*Gypsum, maximum content:* 1 percent

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

*Sodium adsorption ratio, maximum:* 2.0

*Available water supply, 0 to 60 inches:* Low (about 5.1 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 6e



Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

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*Land capability classification (nonirrigated): 7s*  
*Hydrologic Soil Group: A*  
*Ecological site: R070BD003NM - Loamy Sand*  
*Hydric soil rating: No*

### **Description of Maljamar**

#### **Setting**

*Landform: Plains*  
*Landform position (three-dimensional): Rise*  
*Down-slope shape: Linear*  
*Across-slope shape: Linear*  
*Parent material: Sandy eolian deposits derived from sedimentary rock*

#### **Typical profile**

*A - 0 to 24 inches: fine sand*  
*Bt - 24 to 50 inches: sandy clay loam*  
*Bkm - 50 to 60 inches: cemented material*

#### **Properties and qualities**

*Slope: 0 to 3 percent*  
*Depth to restrictive feature: 40 to 60 inches to petrocalcic*  
*Drainage class: Well drained*  
*Runoff class: Very low*  
*Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)*  
*Depth to water table: More than 80 inches*  
*Frequency of flooding: None*  
*Frequency of ponding: None*  
*Calcium carbonate, maximum content: 5 percent*  
*Gypsum, maximum content: 1 percent*  
*Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)*  
*Sodium adsorption ratio, maximum: 2.0*  
*Available water supply, 0 to 60 inches: Low (about 5.6 inches)*

#### **Interpretive groups**

*Land capability classification (irrigated): 6e*  
*Land capability classification (nonirrigated): 7e*  
*Hydrologic Soil Group: B*  
*Ecological site: R070BD003NM - Loamy Sand*  
*Hydric soil rating: No*

### **Minor Components**

#### **Kermit**

*Percent of map unit: 10 percent*  
*Ecological site: R070BC022NM - Sandhills*

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

---

*Hydric soil rating:* No

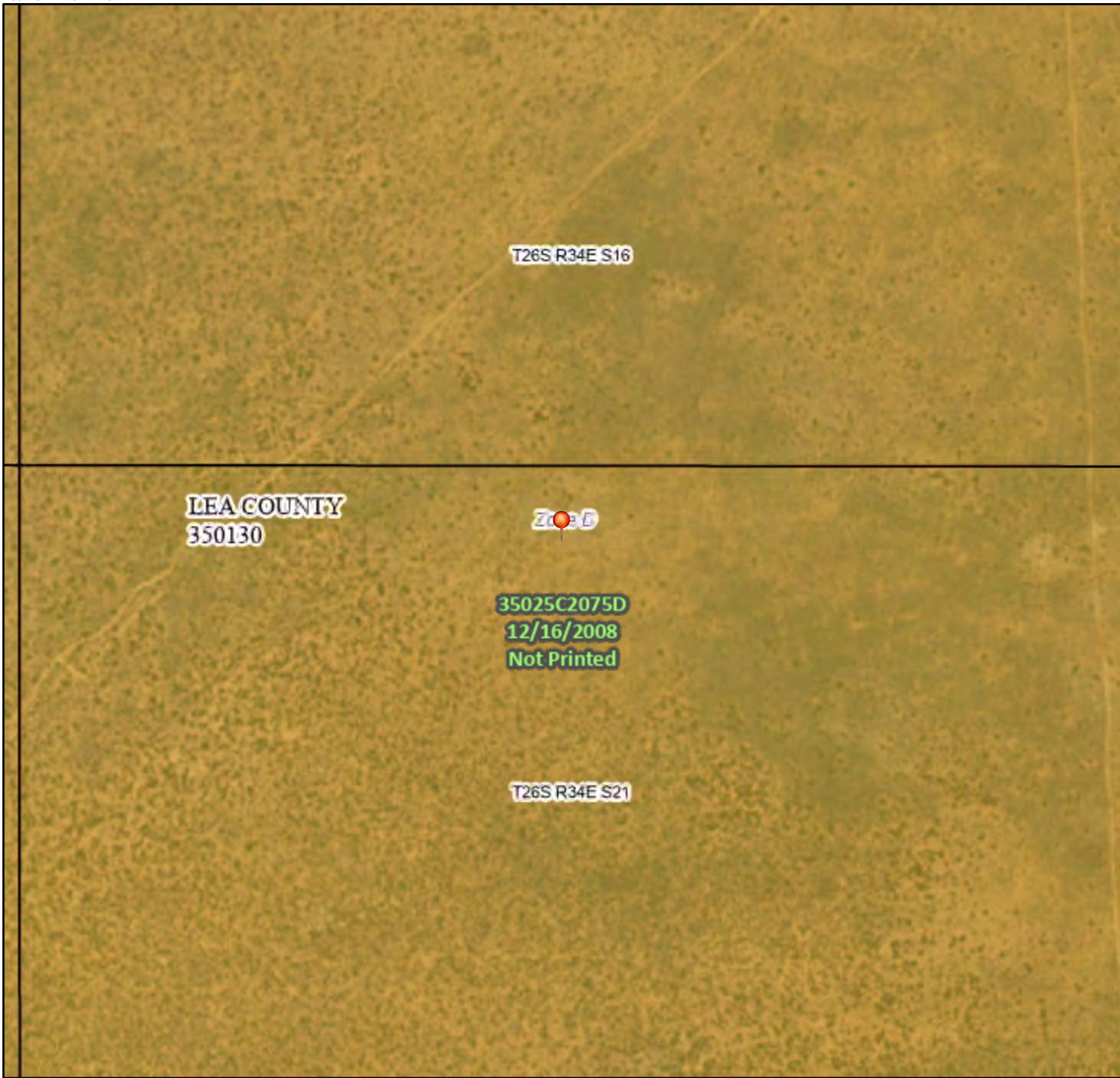
## Data Source Information

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

# National Flood Hazard Layer FIRMette



103°29'1"W 32°2'23"N



## Legend

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

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



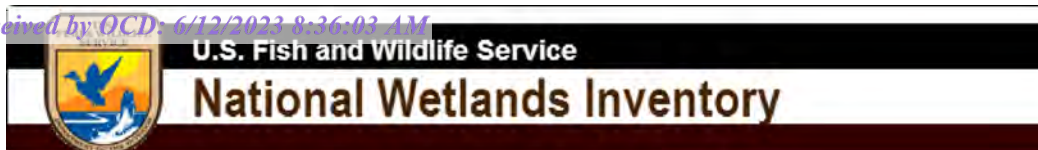
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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 4/3/2023 at 4:43 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



April 3, 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	nAPP2309134922
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Dale Woodall	Contact Telephone 575-748-1838
Contact email dale.woodall@dvn.com	Incident # (assigned by OCD) nAPP2309134922
Contact mailing address 205 E. Bender Road # 150; Hobbs, NM 88240	

### Location of Release Source

Latitude 32.035538 Longitude -103.47832  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name COBBER 21 33 FEDERAL COM #003H	Site Type oil
Date Release Discovered 3/28/2023	API# (if applicable) 30-025-46920

Unit Letter	Section	Township	Range	County
c	21	26S	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 total dissolved solids (TDS) 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) 9.9	Volume/Weight Recovered (provide units) 0

Cause of Release

The US BLM sent a notice of written order received on 3/28/2023 of surface stained soils for the location. Measurements of the impacted area indicate that 4,454 square feet were impacted. zero fluids recovered. estimated release is 9.9 bbls of liquids

Incident ID	nAPP2309134922
District RP	
Facility ID	
Application ID	

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

## Initial Response

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

<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Dale Woodall</u> Signature: <u><i>Dale Woodall</i></u> email: <u>dale.woodall@dvn.com</u>	Title: <u>Environmental Professional</u> Date: <u>4/7/2023</u> Telephone: <u>575-748-1838</u>
<b><u>OCD Only</u></b>	
Received by: <u>Jocelyn Harimon</u> Date: _____	

COBBER 21 33 FEDERAL COM #003H

OCD incident #nAPP2309134922

<b>Spill Volume(Bbls) Calculator</b>	
<i>Inputs in blue, Outputs in red</i>	
<i>Contaminated Soil measurement</i>	
Area (Ft <sup>2</sup> )	Depth (in)
<u>4454</u>	<u>1.000</u>
Cubic Feet of Soil Impacted	<u>371.167</u>
Barrels of Soil Impacted	<u>66.16</u>
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	<u>9.92</u>



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

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

CONDITIONS  
  
Action 205113

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 205113
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	4/10/2023

Incident ID	nAPP2309134922
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>51-100'</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 <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	nAPP2309134922
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: Dale Woodall Title: Environmental Professional  
Signature: Dale Woodall Date: 6/12/2023  
email: dale.woodall@dvn.com Telephone: 575-748-1839

**OCD Only**

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



Incident ID	nAPP2309134922
District RP	
Facility ID	
Application ID	

## Closure

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

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

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

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

Printed Name: Dale Woodall Title: Environmental Professional  
Signature: Dale Woodall Date: 6/12/2023  
email: dale.woodall@dvn.com Telephone: 575-748-1839

**OCD Only**

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

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_



Pima Environmental Services

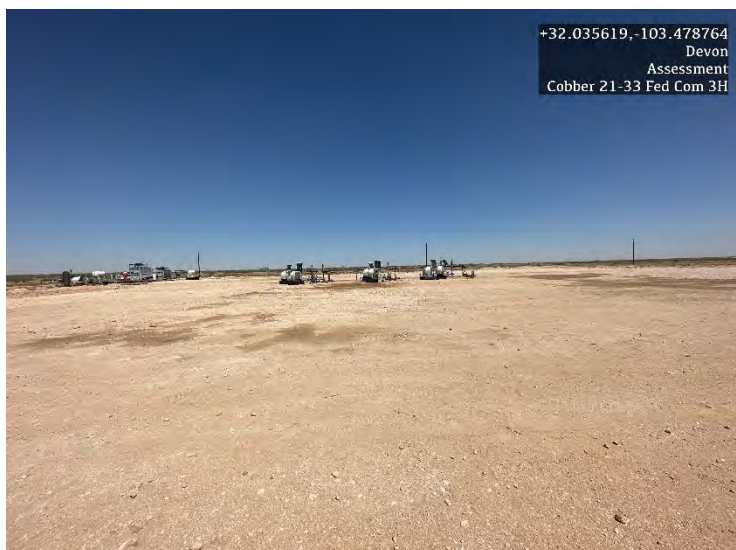
## **Appendix D**

Photographic Documentation



**SITE PHOTOGRAPHS  
DEVON ENERGY  
COBBER 21 33 FEDERAL COM #003H**

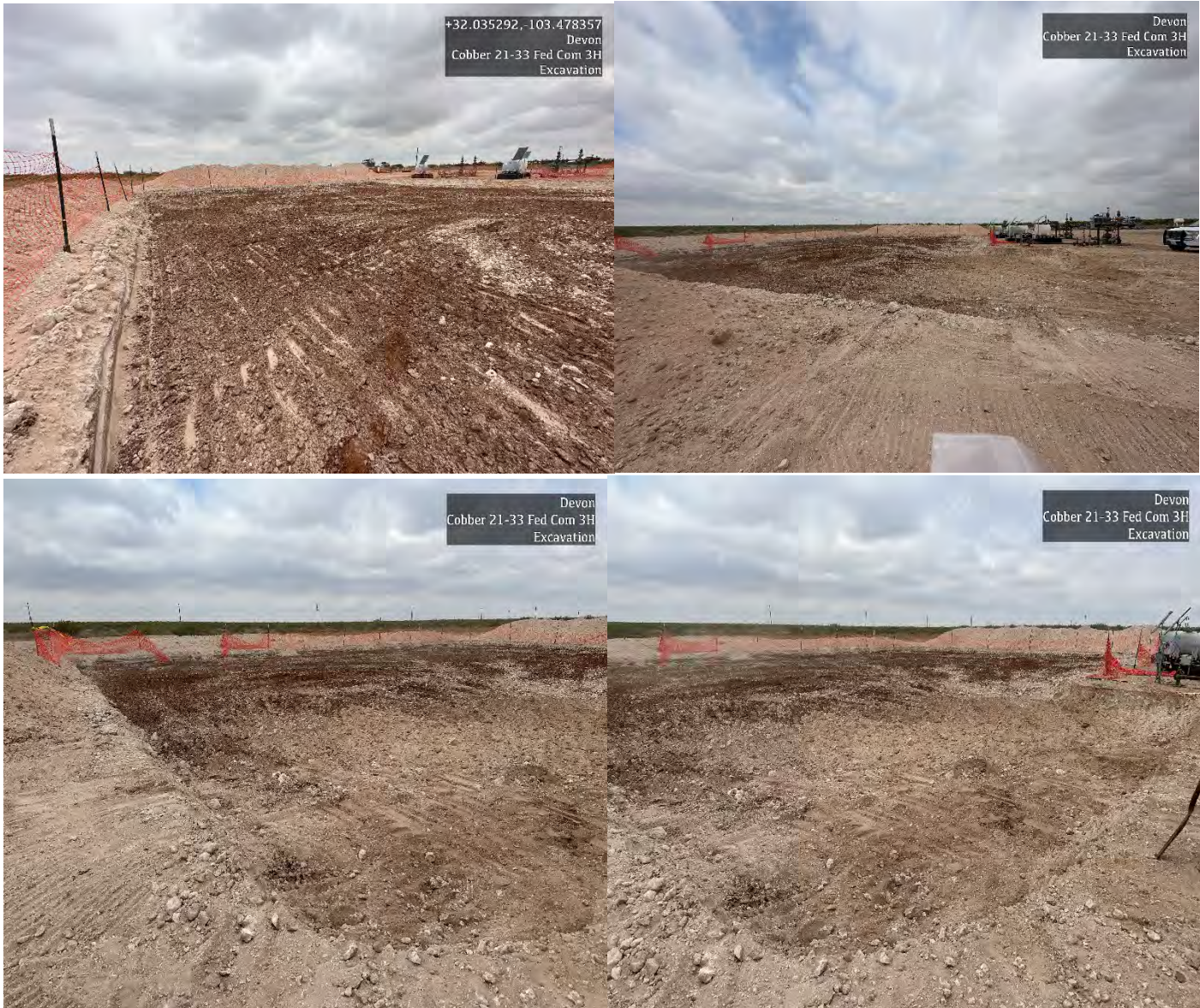
**Site Assessment**



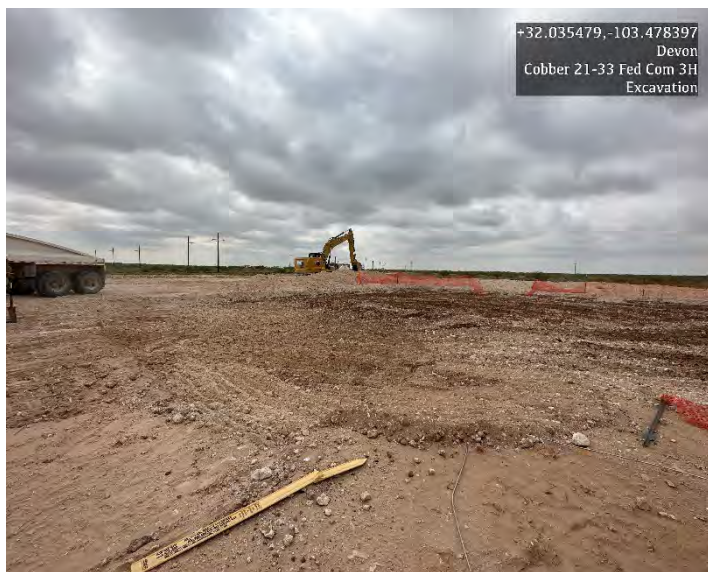




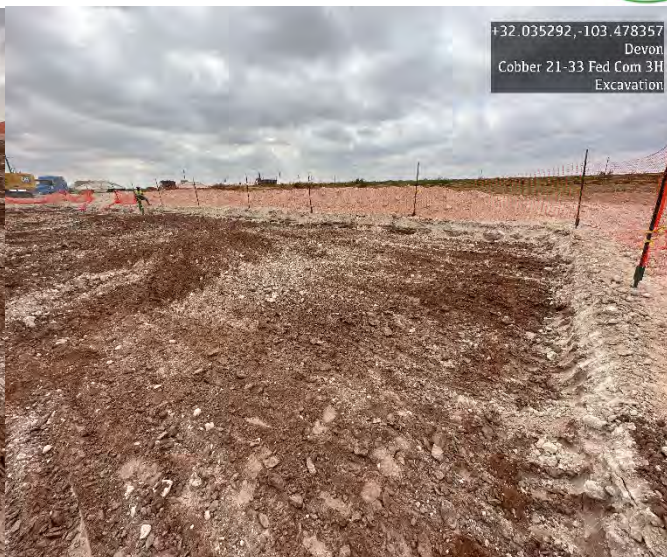
Excavation







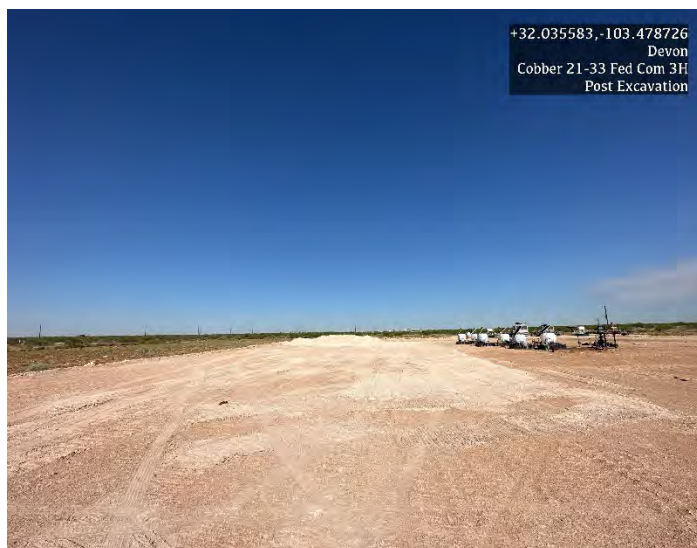








Post Excavation





Pima Environmental Services

## **Appendix E**

Laboratory Reports



Report to:  
Tom Bynum



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Cobber 21-33 3H

Work Order: E304037

Job Number: 01058-0007

Received: 4/11/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
4/17/23

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: 4/17/23



Tom Bynum  
PO Box 247  
Plains, TX 79355-0247

Project Name: Cobber 21-33 3H  
Workorder: E304037  
Date Received: 4/11/2023 7:15:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/11/2023 7:15:00AM, under the Project Name: Cobber 21-33 3H.

The analytical test results summarized in this report with the Project Name: Cobber 21-33 3H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

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

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## Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Cobber 21-33 3H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	04/17/23 09:10

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - 1'	E304037-01A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S1 - 2'	E304037-02A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S1 - 3'	E304037-03A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S1 - 4'	E304037-04A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S2 - 1'	E304037-05A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S2 - 2'	E304037-06A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S2 - 3'	E304037-07A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S2 - 4'	E304037-08A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S3 - 1'	E304037-09A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S3 - 2'	E304037-10A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S3 - 3'	E304037-11A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S3 - 4'	E304037-12A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S4 - 1'	E304037-13A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S4 - 2'	E304037-14A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S4 - 3'	E304037-15A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S4 - 4'	E304037-16A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S5 - 1'	E304037-17A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S5 - 2'	E304037-18A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S5 - 3'	E304037-19A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S5 - 4'	E304037-20A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:10:30AM

S1 - 1'

E304037-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	94.0 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	94.0 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315045
Diesel Range Organics (C10-C28)	81.3	25.0	1	04/11/23	04/11/23	
Oil Range Organics (C28-C36)	74.8	50.0	1	04/11/23	04/11/23	
Surrogate: n-Nonane	103 %	50-200		04/11/23	04/11/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315032
Chloride	793	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:10:30AM

S1 - 2'

E304037-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.9 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.9 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315045
Diesel Range Organics (C10-C28)	37.3	25.0	1	04/11/23	04/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/11/23	
Surrogate: n-Nonane	101 %	50-200		04/11/23	04/11/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315032
Chloride	135	20.0	1	04/11/23	04/11/23	





## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:10:30AM

S1 - 3'

E304037-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	94.4 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	103 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	94.4 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	103 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315045
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/11/23	
Surrogate: n-Nonane	96.5 %	50-200		04/11/23	04/11/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315032
Chloride	ND	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:10:30AM

S1 - 4'

E304037-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	95.7 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	95.7 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315045
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/11/23	
Surrogate: n-Nonane	102 %	50-200		04/11/23	04/11/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315032
Chloride	ND	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:10:30AM

S2 - 1'

E304037-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.1 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.1 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315045
Diesel Range Organics (C10-C28)	57.9	25.0	1	04/11/23	04/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/11/23	
Surrogate: n-Nonane	97.4 %	50-200		04/11/23	04/11/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315032
Chloride	924	20.0	1	04/11/23	04/11/23	





## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:10:30AM

S2 - 2'

E304037-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	94.0 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	94.0 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315045
Diesel Range Organics (C10-C28)	34.0	25.0	1	04/11/23	04/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/11/23	
Surrogate: n-Nonane	99.7 %	50-200		04/11/23	04/11/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315032
Chloride	130	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:10:30AM

S2 - 3'

E304037-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	94.0 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	94.0 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315045
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/11/23	
Surrogate: n-Nonane	102 %	50-200		04/11/23	04/11/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315032
Chloride	33.0	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:10:30AM

S2 - 4'

E304037-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.5 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.5 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315045
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/11/23	
Surrogate: n-Nonane	100 %	50-200		04/11/23	04/11/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315032
Chloride	ND	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:10:30AM

S3 - 1'

E304037-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	92.9 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	92.9 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315045
Diesel Range Organics (C10-C28)	32.1	25.0	1	04/11/23	04/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/11/23	
Surrogate: n-Nonane	98.3 %	50-200		04/11/23	04/11/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315032
Chloride	132	20.0	1	04/11/23	04/11/23	





## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:10:30AM

S3 - 2'

E304037-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.6 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.6 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315045
Diesel Range Organics (C10-C28)	29.5	25.0	1	04/11/23	04/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/11/23	
Surrogate: n-Nonane	93.7 %	50-200		04/11/23	04/11/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315032
Chloride	137	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:10:30AM

S3 - 3'

E304037-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.4 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.4 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315045
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane	96.3 %	50-200		04/11/23	04/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315032
Chloride	31.0	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:10:30AM

S3 - 4'

E304037-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.0 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.0 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315045
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane	99.8 %	50-200		04/11/23	04/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315032
Chloride	ND	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:10:30AM

S4 - 1'

E304037-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.8 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.8 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315045
Diesel Range Organics (C10-C28)	32.9	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane	74.7 %	50-200		04/11/23	04/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315032
Chloride	177	20.0	1	04/11/23	04/11/23	





## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:10:30AM

S4 - 2'

E304037-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.2 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.2 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315045
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane	100 %	50-200		04/11/23	04/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315032
Chloride	24.3	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:10:30AM

S4 - 3'

E304037-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.5 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.5 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315045
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane	100 %	50-200		04/11/23	04/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315032
Chloride	31.6	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:10:30AM

S4 - 4'

E304037-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	92.9 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	92.9 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315045
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane	101 %	50-200		04/11/23	04/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315032
Chloride	ND	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:10:30AM

S5 - 1'

E304037-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2315017	
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	92.4 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2315017	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	92.4 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2315045	
Diesel Range Organics (C10-C28)	29.0	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane	101 %	50-200		04/11/23	04/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2315032	
Chloride	623	20.0	1	04/11/23	04/11/23	





## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:10:30AM

S5 - 2'

E304037-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.3 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.3 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315045
Diesel Range Organics (C10-C28)	31.0	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane	99.6 %	50-200		04/11/23	04/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315032
Chloride	127	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:10:30AM

S5 - 3'

E304037-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.2 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.2 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315045
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane	99.5 %	50-200		04/11/23	04/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315032
Chloride	27.5	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:10:30AM

S5 - 4'

E304037-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.4 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315017
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.4 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315045
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane	96.3 %	50-200		04/11/23	04/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315032
Chloride	ND	20.0	1	04/11/23	04/11/23	





## QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cobber 21-33 3H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/17/2023 9:10:30AM

## Volatile Organic Compounds by EPA 8260B

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

## Blank (2315017-BLK1)

Prepared: 04/11/23 Analyzed: 04/12/23

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: Bromofluorobenzene	0.467		0.500		93.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.3	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

## LCS (2315017-BS1)

Prepared: 04/11/23 Analyzed: 04/12/23

Benzene	2.25	0.0250	2.50		90.0	70-130			
Ethylbenzene	2.24	0.0250	2.50		89.8	70-130			
Toluene	2.21	0.0250	2.50		88.5	70-130			
o-Xylene	2.26	0.0250	2.50		90.3	70-130			
p,m-Xylene	4.46	0.0500	5.00		89.2	70-130			
Total Xylenes	6.72	0.0250	7.50		89.6	70-130			
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			

## Matrix Spike (2315017-MS1)

Source: E304037-02

Prepared: 04/11/23 Analyzed: 04/12/23

Benzene	2.19	0.0250	2.50	ND	87.7	48-131			
Ethylbenzene	2.19	0.0250	2.50	ND	87.7	45-135			
Toluene	2.17	0.0250	2.50	ND	86.8	48-130			
o-Xylene	2.19	0.0250	2.50	ND	87.6	43-135			
p,m-Xylene	4.34	0.0500	5.00	ND	86.8	43-135			
Total Xylenes	6.53	0.0250	7.50	ND	87.1	43-135			
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			

## Matrix Spike Dup (2315017-MSD1)

Source: E304037-02

Prepared: 04/11/23 Analyzed: 04/12/23

Benzene	2.23	0.0250	2.50	ND	89.3	48-131	1.76	23	
Ethylbenzene	2.21	0.0250	2.50	ND	88.5	45-135	0.931	27	
Toluene	2.19	0.0250	2.50	ND	87.5	48-130	0.757	24	
o-Xylene	2.22	0.0250	2.50	ND	88.7	43-135	1.22	27	
p,m-Xylene	4.39	0.0500	5.00	ND	87.7	43-135	1.11	27	
Total Xylenes	6.61	0.0250	7.50	ND	88.1	43-135	1.15	27	
Surrogate: Bromofluorobenzene	0.490		0.500		98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.1	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			



## QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cobber 21-33 3H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/17/2023 9:10:30AM

## 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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

## Blank (2315017-BLK1)

Prepared: 04/11/23 Analyzed: 04/12/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.467		0.500		93.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.3	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

## LCS (2315017-BS2)

Prepared: 04/11/23 Analyzed: 04/12/23

Gasoline Range Organics (C6-C10)	40.6	20.0	50.0		81.2	70-130			
Surrogate: Bromofluorobenzene	0.492		0.500		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

## Matrix Spike (2315017-MS2)

Source: E304037-02

Prepared: 04/11/23 Analyzed: 04/12/23

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0	ND	89.3	70-130			
Surrogate: Bromofluorobenzene	0.490		0.500		97.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.4	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

## Matrix Spike Dup (2315017-MSD2)

Source: E304037-02

Prepared: 04/11/23 Analyzed: 04/12/23

Gasoline Range Organics (C6-C10)	42.4	20.0	50.0	ND	84.8	70-130	5.18	20	
Surrogate: Bromofluorobenzene	0.494		0.500		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cobber 21-33 3H	Reported:  4/17/2023 9:10:30AM
PO Box 247	Project Number:	01058-0007	
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 (2315045-BLK1)					Prepared: 04/11/23 Analyzed: 04/11/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.1		50.0		96.2	50-200			

LCS (2315045-BS1)					Prepared: 04/11/23 Analyzed: 04/11/23				
Diesel Range Organics (C10-C28)	258	25.0	250		103	38-132			
Surrogate: n-Nonane	48.9		50.0		97.7	50-200			

Matrix Spike (2315045-MS1)					Source: E304037-01		Prepared: 04/11/23 Analyzed: 04/11/23		
Diesel Range Organics (C10-C28)	313	25.0	250	81.3	92.5	38-132			
Surrogate: n-Nonane	48.9		50.0		97.7	50-200			

Matrix Spike Dup (2315045-MSD1)					Source: E304037-01		Prepared: 04/11/23 Analyzed: 04/11/23		
Diesel Range Organics (C10-C28)	306	25.0	250	81.3	89.8	38-132	2.20	20	
Surrogate: n-Nonane	49.3		50.0		98.6	50-200			





QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cobber 21-33 3H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/17/2023 9:10:30AM

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 (2315032-BLK1)					Prepared: 04/11/23 Analyzed: 04/11/23				
Chloride	ND	20.0							
LCS (2315032-BS1)					Prepared: 04/11/23 Analyzed: 04/11/23				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2315032-MS1)					Source: E304037-01		Prepared: 04/11/23 Analyzed: 04/11/23		
Chloride	1040	20.0	250	793	99.5	80-120			
Matrix Spike Dup (2315032-MSD1)					Source: E304037-01		Prepared: 04/11/23 Analyzed: 04/11/23		
Chloride	1030	20.0	250	793	93.2	80-120	1.51	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:	Cobber 21-33 3H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	04/17/23 09:10

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



## Project Information

## Chain of Custody

Page 1 of 5

Client: Pima Environmental Services  
 Project: Copper 21-33 3H  
 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: Devon

Address:

City, State, Zip

Phone:

Email:

Pima Project # 286

## Lab Use Only

Lab WO#

E304048 0038-0037

Job Number

E304037

Analysis and Method

## TAT

1D

2D

3D

Standard

X

## EPA Program

CWA

SDWA

RCRA

## State

NM

CO

UT

AZ

TX

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	Remarks
12:00	4/7/23	S	1	S1-1'	1							X		
12:05				S1-2'	2									
12:10				S1-3'	3									
12:15				S1-4'	4									
12:20				S2-1'	5									
12:25				S2-2'	6									
12:30				S2-3'	7									
12:35				S2-4'	8									
12:40				S3-1'	9									
12:45	✓	✓	✓	S3-2'	10							✓		

## Additional Instructions:

Billing #: 21146772

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:

Andrew Franco

Relinquished by: (Signature)

Date

Time

Received by: (Signature)

Date

Time

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

Relinquished by: (Signature)

Date

Time

Received by: (Signature)

Date

Time

Lab Use Only

Received on ice: Y N

Relinquished by: (Signature)

Date

Time

Received by: (Signature)

Date

Time

T1 T2 T3

Sample Matrix (S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other)

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

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech



Project Information

Chain of Custody

Client: Pima Environmental Services					Bill To					Lab Use Only					TAT				EPA Program		
Project: <u>Copper 21-53 3H</u>					Attention: <u>Devon</u>					Lab WO# <u>E304048</u> Job Number <u>01058-0007</u>					1D 2D 3D Standard <u>X</u>				CWA SDWA		
Project Manager: Tom Bynum					Address:					<u>E304037</u> Analysis and Method									RCRA		
Address: <u>5614 N. Lovington Hwy.</u>					City, State, Zip																
City, State, Zip <u>Hobbs, NM, 88240</u>					Phone:																
Phone: <u>580-748-1613</u>					Email:																
Email: <u>tom@pimaoil.com</u>					Pima Project # <u>286</u>																
Report due by:																					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks							
12:50	4/7/23	S	1	53-3'	11							X									
12:55				53-4'	12																
1:00				54-1'	13																
1:05				54-2'	14																
1:10				54-3'	15																
1:15				54-4'	16																
1:20				55-1'	17																
1:25				55-2'	18																
1:30				55-3'	19																
1:35	✓	✓	✓	55-4'	20							✓									
Additional Instructions:																					
Billing#: 21146772																					
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.																					
Sampled by: <u>Andrew Franco</u>																					
Relinquished by: (Signature) <u>AF</u>					Date <u>4-10-23</u>		Time <u>2:00</u>		Received by: (Signature) <u>Michelle Guay</u>					Date <u>4-10-23</u>		Time <u>16:40</u>		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 5 °C on subsequent days.			
Relinquished by: (Signature) <u>Michelle Guay</u>					Date <u>4-10-23</u>		Time <u>1830</u>		Received by: (Signature) <u>Lorenzo</u>					Date <u>4-10-23</u>		Time <u>1830</u>		Received on ice: <u>Y</u> /N			
Relinquished by: (Signature) <u>Lorenzo</u>					Date <u>4-10-23</u>		Time <u>2415</u>		Received by: (Signature) <u>Andrew</u>					Date <u>4-11-23</u>		Time <u>7:15</u>		T1 T2 T3			
Sample Matrix: <u>S</u> - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																					
Container Type: <u>g</u> - 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: 4/11/2023 11:36:23AM

## 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:	04/11/23 07:15	Work Order ID:	E304037
Phone:	(575) 631-6977	Date Logged In:	04/11/23 08:25	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	04/17/23 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/Resolution

Project Cobber 21-33 3H has been separated into 2 reports due to sample volume. Workorders are as follows: E304037 & E304038.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:  
Tom Bynum



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Cobber 21-33 3H

Work Order: E304038

Job Number: 01058-0007

Received: 4/11/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
4/17/23

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: 4/17/23



Tom Bynum  
PO Box 247  
Plains, TX 79355-0247

Project Name: Cobber 21-33 3H  
Workorder: E304038  
Date Received: 4/11/2023 7:15:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/11/2023 7:15:00AM, under the Project Name: Cobber 21-33 3H.

The analytical test results summarized in this report with the Project Name: Cobber 21-33 3H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
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**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

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



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## Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Cobber 21-33 3H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	04/17/23 09:27

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S6 - 1'	E304038-01A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S6 - 2'	E304038-02A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S6 - 3'	E304038-03A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S6 - 4'	E304038-04A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S7 - 1'	E304038-05A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S7 - 2'	E304038-06A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S7 - 3'	E304038-07A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S7 - 4'	E304038-08A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S8 - 1'	E304038-09A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S8 - 2'	E304038-10A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S8 - 3'	E304038-11A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S8 - 4'	E304038-12A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S9 - 1'	E304038-13A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S9 - 2'	E304038-14A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S9 - 3'	E304038-15A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
S9 - 4'	E304038-16A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
SW1	E304038-17A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
SW2	E304038-18A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
SW3	E304038-19A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
SW4	E304038-20A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
SW5	E304038-21A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
SW6	E304038-22A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
SW7	E304038-23A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
SW8	E304038-24A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.
BG1	E304038-25A	Soil	04/07/23	04/11/23	Glass Jar, 2 oz.



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:27:58AM

S6 - 1'

E304038-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Benzene	ND	0.0250	1	04/11/23	04/11/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/11/23	
Toluene	ND	0.0250	1	04/11/23	04/11/23	
o-Xylene	ND	0.0250	1	04/11/23	04/11/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/11/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene	94.8 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/11/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene	94.8 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/11/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315046
Diesel Range Organics (C10-C28)	54.7	25.0	1	04/11/23	04/11/23	
Oil Range Organics (C28-C36)	62.1	50.0	1	04/11/23	04/11/23	
Surrogate: n-Nonane	109 %	50-200		04/11/23	04/11/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315033
Chloride	786	20.0	1	04/11/23	04/11/23	





## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:27:58AM

S6 - 2'

E304038-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Benzene	ND	0.0250	1	04/11/23	04/11/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/11/23	
Toluene	ND	0.0250	1	04/11/23	04/11/23	
o-Xylene	ND	0.0250	1	04/11/23	04/11/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/11/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene	94.8 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/11/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene	94.8 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/11/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315046
Diesel Range Organics (C10-C28)	37.5	25.0	1	04/11/23	04/11/23	
Oil Range Organics (C28-C36)	57.9	50.0	1	04/11/23	04/11/23	
Surrogate: n-Nonane	108 %	50-200		04/11/23	04/11/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315033
Chloride	131	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:27:58AM

S6 - 3'

E304038-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Benzene	ND	0.0250	1	04/11/23	04/11/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/11/23	
Toluene	ND	0.0250	1	04/11/23	04/11/23	
o-Xylene	ND	0.0250	1	04/11/23	04/11/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/11/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene	94.4 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/11/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene	94.4 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/11/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315046
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/11/23	
Surrogate: n-Nonane	106 %	50-200		04/11/23	04/11/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315033
Chloride	31.5	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:27:58AM

S6 - 4'

E304038-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Benzene	ND	0.0250	1	04/11/23	04/11/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/11/23	
Toluene	ND	0.0250	1	04/11/23	04/11/23	
o-Xylene	ND	0.0250	1	04/11/23	04/11/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/11/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene	93.2 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/11/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene	93.2 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/11/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315046
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/11/23	
Surrogate: n-Nonane	108 %	50-200		04/11/23	04/11/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315033
Chloride	ND	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:27:58AM

S7 - 1'

E304038-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Benzene	ND	0.0250	1	04/11/23	04/11/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/11/23	
Toluene	ND	0.0250	1	04/11/23	04/11/23	
o-Xylene	ND	0.0250	1	04/11/23	04/11/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/11/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene	93.0 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/11/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene	93.0 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/11/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315046
Diesel Range Organics (C10-C28)	46.1	25.0	1	04/11/23	04/11/23	
Oil Range Organics (C28-C36)	51.0	50.0	1	04/11/23	04/11/23	
Surrogate: n-Nonane	108 %	50-200		04/11/23	04/11/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315033
Chloride	617	20.0	1	04/11/23	04/11/23	





## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:27:58AM

S7 - 2'

E304038-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Benzene	ND	0.0250	1	04/11/23	04/11/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/11/23	
Toluene	ND	0.0250	1	04/11/23	04/11/23	
o-Xylene	ND	0.0250	1	04/11/23	04/11/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/11/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene	94.9 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/11/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene	94.9 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/11/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315046
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/11/23	
Surrogate: n-Nonane	108 %	50-200		04/11/23	04/11/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315033
Chloride	ND	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:27:58AM

S7 - 3'

E304038-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Benzene	ND	0.0250	1	04/11/23	04/11/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/11/23	
Toluene	ND	0.0250	1	04/11/23	04/11/23	
o-Xylene	ND	0.0250	1	04/11/23	04/11/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/11/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene	92.6 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/11/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene	92.6 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/11/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315046
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/11/23	
Surrogate: n-Nonane	96.9 %	50-200		04/11/23	04/11/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315033
Chloride	ND	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:27:58AM

S7 - 4'

E304038-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2315021	
Benzene	ND	0.0500	2	04/11/23	04/11/23	
Ethylbenzene	ND	0.0500	2	04/11/23	04/11/23	
Toluene	ND	0.0500	2	04/11/23	04/11/23	
o-Xylene	ND	0.0500	2	04/11/23	04/11/23	
p,m-Xylene	ND	0.100	2	04/11/23	04/11/23	
Total Xylenes	ND	0.0500	2	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene	92.6 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/11/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2315021	
Gasoline Range Organics (C6-C10)	ND	40.0	2	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene	92.6 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/11/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2315046	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/11/23	
Surrogate: n-Nonane	108 %	50-200		04/11/23	04/11/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2315033	
Chloride	ND	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:27:58AM

S8 - 1'

E304038-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Benzene	ND	0.0250	1	04/11/23	04/11/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/11/23	
Toluene	ND	0.0250	1	04/11/23	04/11/23	
o-Xylene	ND	0.0250	1	04/11/23	04/11/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/11/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene	92.2 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/11/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene	92.2 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/11/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315046
Diesel Range Organics (C10-C28)	57.3	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	70.4	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane	109 %	50-200		04/11/23	04/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315033
Chloride	834	20.0	1	04/11/23	04/11/23	





## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:27:58AM

S8 - 2'

E304038-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.5 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	96.3 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.5 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	96.3 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315046
Diesel Range Organics (C10-C28)	65.4	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	90.5	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane	106 %	50-200		04/11/23	04/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315033
Chloride	132	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:27:58AM

S8 - 3'

E304038-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	94.3 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	94.3 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315046
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane	109 %	50-200		04/11/23	04/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315033
Chloride	29.4	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:27:58AM

S8 - 4'

E304038-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	94.4 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	94.4 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315046
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane	111 %	50-200		04/11/23	04/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315033
Chloride	ND	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:27:58AM

S9 - 1'

E304038-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.8 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.8 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315046
Diesel Range Organics (C10-C28)	48.4	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	63.0	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane	109 %	50-200		04/11/23	04/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315033
Chloride	1120	20.0	1	04/11/23	04/11/23	





## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:27:58AM

S9 - 2'

E304038-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	92.6 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	103 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	92.6 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	103 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315046
Diesel Range Organics (C10-C28)	31.5	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane	108 %	50-200		04/11/23	04/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315033
Chloride	133	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:27:58AM

S9 - 3'

E304038-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	92.7 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	92.7 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315046
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane	106 %	50-200		04/11/23	04/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315033
Chloride	32.0	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:27:58AM

S9 - 4'

E304038-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	91.6 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	100 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	91.6 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	100 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315046
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane	109 %	50-200		04/11/23	04/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315033
Chloride	ND	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:27:58AM

## SW1

## E304038-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	92.7 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	92.7 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	101 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315046
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane	109 %	50-200		04/11/23	04/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315033
Chloride	ND	20.0	1	04/11/23	04/11/23	





## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:27:58AM

## SW2

## E304038-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.0 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.0 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315046
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane	110 %	50-200		04/11/23	04/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315033
Chloride	ND	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:27:58AM

## SW3

## E304038-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.3 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	103 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	93.3 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	103 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315046
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane	109 %	50-200		04/11/23	04/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315033
Chloride	ND	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:27:58AM

## SW4

## E304038-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	92.6 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315021
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	92.6 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315046
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane	110 %	50-200		04/11/23	04/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315033
Chloride	ND	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:27:58AM

## SW5

## E304038-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2315030
Benzene	ND	0.0250	1	04/11/23	04/11/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/11/23	
Toluene	ND	0.0250	1	04/11/23	04/11/23	
o-Xylene	ND	0.0250	1	04/11/23	04/11/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/11/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene		101 %	70-130	04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4		114 %	70-130	04/11/23	04/11/23	
Surrogate: Toluene-d8		102 %	70-130	04/11/23	04/11/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2315030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene		101 %	70-130	04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4		114 %	70-130	04/11/23	04/11/23	
Surrogate: Toluene-d8		102 %	70-130	04/11/23	04/11/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315047
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane		111 %	50-200	04/11/23	04/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315034
Chloride	ND	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:27:58AM

## SW6

## E304038-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2315030
Benzene	ND	0.0250	1	04/11/23	04/11/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/11/23	
Toluene	ND	0.0250	1	04/11/23	04/11/23	
o-Xylene	ND	0.0250	1	04/11/23	04/11/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/11/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene	99.4 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4	112 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8	104 %	70-130		04/11/23	04/11/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2315030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene	99.4 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4	112 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8	104 %	70-130		04/11/23	04/11/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315047
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane	110 %	50-200		04/11/23	04/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315034
Chloride	ND	20.0	1	04/11/23	04/11/23	





## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:27:58AM

SW7

E304038-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2315030
Benzene	ND	0.0250	1	04/11/23	04/11/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/11/23	
Toluene	ND	0.0250	1	04/11/23	04/11/23	
o-Xylene	ND	0.0250	1	04/11/23	04/11/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/11/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene	97.8 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4	112 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/11/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2315030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene	97.8 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4	112 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/11/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315047
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane	111 %	50-200		04/11/23	04/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315034
Chloride	ND	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:27:58AM

## SW8

## E304038-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2315030
Benzene	ND	0.0250	1	04/11/23	04/11/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/11/23	
Toluene	ND	0.0250	1	04/11/23	04/11/23	
o-Xylene	ND	0.0250	1	04/11/23	04/11/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/11/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene	98.8 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4	115 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8	104 %	70-130		04/11/23	04/11/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2315030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene	98.8 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4	115 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8	104 %	70-130		04/11/23	04/11/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315047
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane	113 %	50-200		04/11/23	04/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315034
Chloride	ND	20.0	1	04/11/23	04/11/23	



## Sample Data

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

Project Name: Cobber 21-33 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/17/2023 9:27:58AM

## BG1

## E304038-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2315030
Benzene	ND	0.0250	1	04/11/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/12/23	
Toluene	ND	0.0250	1	04/11/23	04/12/23	
o-Xylene	ND	0.0250	1	04/11/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	99.5 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2315030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/12/23	
Surrogate: Bromofluorobenzene	99.5 %	70-130		04/11/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130		04/11/23	04/12/23	
Surrogate: Toluene-d8	102 %	70-130		04/11/23	04/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315047
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane	111 %	50-200		04/11/23	04/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315034
Chloride	ND	20.0	1	04/11/23	04/11/23	



## QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cobber 21-33 3H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/17/2023 9:27:58AM

## Volatile Organic Compounds by EPA 8260B

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 (2315021-BLK1)

Prepared: 04/11/23 Analyzed: 04/11/23

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: Bromofluorobenzene	0.468		0.500		93.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.6	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			

## LCS (2315021-BS1)

Prepared: 04/11/23 Analyzed: 04/11/23

Benzene	2.21	0.0250	2.50		88.3	70-130			
Ethylbenzene	2.22	0.0250	2.50		88.9	70-130			
Toluene	2.19	0.0250	2.50		87.6	70-130			
o-Xylene	2.23	0.0250	2.50		89.1	70-130			
p,m-Xylene	4.40	0.0500	5.00		88.1	70-130			
Total Xylenes	6.63	0.0250	7.50		88.4	70-130			
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			

## Matrix Spike (2315021-MS1)

Source: E304038-02

Prepared: 04/11/23 Analyzed: 04/11/23

Benzene	2.31	0.0250	2.50	ND	92.2	48-131			
Ethylbenzene	2.29	0.0250	2.50	ND	91.5	45-135			
Toluene	2.25	0.0250	2.50	ND	89.9	48-130			
o-Xylene	2.30	0.0250	2.50	ND	92.0	43-135			
p,m-Xylene	4.54	0.0500	5.00	ND	90.7	43-135			
Total Xylenes	6.84	0.0250	7.50	ND	91.2	43-135			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		96.0	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

## Matrix Spike Dup (2315021-MSD1)

Source: E304038-02

Prepared: 04/11/23 Analyzed: 04/11/23

Benzene	2.29	0.0250	2.50	ND	91.6	48-131	0.653	23	
Ethylbenzene	2.29	0.0250	2.50	ND	91.6	45-135	0.109	27	
Toluene	2.25	0.0250	2.50	ND	89.9	48-130	0.0667	24	
o-Xylene	2.29	0.0250	2.50	ND	91.7	43-135	0.392	27	
p,m-Xylene	4.54	0.0500	5.00	ND	90.7	43-135	0.00	27	
Total Xylenes	6.83	0.0250	7.50	ND	91.1	43-135	0.132	27	
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		96.0	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			



## QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cobber 21-33 3H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/17/2023 9:27:58AM

## Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2315030-BLK1)

Prepared: 04/11/23 Analyzed: 04/11/23

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: Bromofluorobenzene	0.491		0.500		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.556		0.500		111	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			

## LCS (2315030-BS1)

Prepared: 04/11/23 Analyzed: 04/11/23

Benzene	2.54	0.0250	2.50		102	70-130			
Ethylbenzene	2.52	0.0250	2.50		101	70-130			
Toluene	2.61	0.0250	2.50		104	70-130			
o-Xylene	2.54	0.0250	2.50		101	70-130			
p,m-Xylene	5.11	0.0500	5.00		102	70-130			
Total Xylenes	7.64	0.0250	7.50		102	70-130			
Surrogate: Bromofluorobenzene	0.535		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.564		0.500		113	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

## Matrix Spike (2315030-MS1)

Source: E304038-24

Prepared: 04/11/23 Analyzed: 04/11/23

Benzene	2.66	0.0250	2.50	ND	106	48-131			
Ethylbenzene	2.70	0.0250	2.50	ND	108	45-135			
Toluene	2.76	0.0250	2.50	ND	110	48-130			
o-Xylene	2.73	0.0250	2.50	ND	109	43-135			
p,m-Xylene	5.48	0.0500	5.00	ND	110	43-135			
Total Xylenes	8.21	0.0250	7.50	ND	109	43-135			
Surrogate: Bromofluorobenzene	0.535		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.551		0.500		110	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			

## Matrix Spike Dup (2315030-MSD1)

Source: E304038-24

Prepared: 04/11/23 Analyzed: 04/11/23

Benzene	2.55	0.0250	2.50	ND	102	48-131	4.07	23	
Ethylbenzene	2.55	0.0250	2.50	ND	102	45-135	5.77	27	
Toluene	2.60	0.0250	2.50	ND	104	48-130	5.67	24	
o-Xylene	2.57	0.0250	2.50	ND	103	43-135	6.06	27	
p,m-Xylene	5.14	0.0500	5.00	ND	103	43-135	6.37	27	
Total Xylenes	7.71	0.0250	7.50	ND	103	43-135	6.27	27	
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.567		0.500		113	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			





## QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cobber 21-33 3H	<b>Reported:</b> 4/17/2023 9:27:58AM
PO Box 247	Project Number:	01058-0007	
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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

## Blank (2315021-BLK1)

Prepared: 04/11/23 Analyzed: 04/11/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.468		0.500		93.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.6	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			

## LCS (2315021-BS2)

Prepared: 04/11/23 Analyzed: 04/11/23

Gasoline Range Organics (C6-C10)	44.8	20.0	50.0		89.5	70-130			
Surrogate: Bromofluorobenzene	0.494		0.500		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			

## Matrix Spike (2315021-MS2)

Source: E304038-02

Prepared: 04/11/23 Analyzed: 04/11/23

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0	ND	94.3	70-130			
Surrogate: Bromofluorobenzene	0.497		0.500		99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			

## Matrix Spike Dup (2315021-MSD2)

Source: E304038-02

Prepared: 04/11/23 Analyzed: 04/11/23

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0	ND	91.4	70-130	3.15	20	
Surrogate: Bromofluorobenzene	0.496		0.500		99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.500		0.500		100	70-130			



## QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cobber 21-33 3H	<b>Reported:</b> 4/17/2023 9:27:58AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2315030-BLK1)

Prepared: 04/11/23 Analyzed: 04/11/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.491		0.500		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.556		0.500		111	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			

## LCS (2315030-BS2)

Prepared: 04/11/23 Analyzed: 04/11/23

Gasoline Range Organics (C6-C10)	58.0	20.0	50.0		116	70-130			
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.540		0.500		108	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			

## Matrix Spike (2315030-MS2)

Source: E304038-24

Prepared: 04/11/23 Analyzed: 04/11/23

Gasoline Range Organics (C6-C10)	55.8	20.0	50.0	ND	112	70-130			
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.566		0.500		113	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

## Matrix Spike Dup (2315030-MSD2)

Source: E304038-24

Prepared: 04/11/23 Analyzed: 04/11/23

Gasoline Range Organics (C6-C10)	57.4	20.0	50.0	ND	115	70-130	2.80	20	
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.553		0.500		111	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			



## QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cobber 21-33 3H	<b>Reported:</b>
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/17/2023 9:27:58AM

## 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 (2315046-BLK1)

Prepared: 04/11/23 Analyzed: 04/11/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.4		50.0		109	50-200			

## LCS (2315046-BS1)

Prepared: 04/11/23 Analyzed: 04/11/23

Diesel Range Organics (C10-C28)	274	25.0	250		110	38-132			
Surrogate: n-Nonane	52.9		50.0		106	50-200			

## Matrix Spike (2315046-MS1)

Source: E304038-02

Prepared: 04/11/23 Analyzed: 04/11/23

Diesel Range Organics (C10-C28)	315	25.0	250	37.5	111	38-132			
Surrogate: n-Nonane	50.6		50.0		101	50-200			

## Matrix Spike Dup (2315046-MSD1)

Source: E304038-02

Prepared: 04/11/23 Analyzed: 04/12/23

Diesel Range Organics (C10-C28)	300	25.0	250	37.5	105	38-132	4.87	20	
Surrogate: n-Nonane	59.2		50.0		118	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cobber 21-33 3H	Reported:  4/17/2023 9:27:58AM
PO Box 247	Project Number:	01058-0007	
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 (2315047-BLK1)					Prepared: 04/11/23 Analyzed: 04/12/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.3		50.0		111	50-200			

LCS (2315047-BS1)					Prepared: 04/11/23 Analyzed: 04/12/23				
Diesel Range Organics (C10-C28)	265	25.0	250		106	38-132			
Surrogate: n-Nonane	53.7		50.0		107	50-200			

Matrix Spike (2315047-MS1)					Source: E304038-21		Prepared: 04/11/23 Analyzed: 04/12/23		
Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	38-132			
Surrogate: n-Nonane	54.2		50.0		108	50-200			

Matrix Spike Dup (2315047-MSD1)					Source: E304038-21		Prepared: 04/11/23 Analyzed: 04/12/23		
Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	38-132	0.0359	20	
Surrogate: n-Nonane	53.8		50.0		108	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cobber 21-33 3H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/17/2023 9:27:58AM

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 (2315033-BLK1)					Prepared: 04/11/23 Analyzed: 04/11/23				
Chloride	ND	20.0							
LCS (2315033-BS1)					Prepared: 04/11/23 Analyzed: 04/11/23				
Chloride	267	20.0	250		107	90-110			
Matrix Spike (2315033-MS1)					Source: E304038-01		Prepared: 04/11/23 Analyzed: 04/11/23		
Chloride	944	20.0	250	786	63.1	80-120			M2
Matrix Spike Dup (2315033-MSD1)					Source: E304038-01		Prepared: 04/11/23 Analyzed: 04/11/23		
Chloride	1130	20.0	250	786	136	80-120	17.6	20	M2





QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cobber 21-33 3H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/17/2023 9:27:58AM

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 (2315034-BLK1)					Prepared: 04/11/23 Analyzed: 04/11/23				
Chloride	ND	20.0							
LCS (2315034-BS1)					Prepared: 04/11/23 Analyzed: 04/11/23				
Chloride	247	20.0	250		98.7	90-110			
Matrix Spike (2315034-MS1)					Source: E304038-21		Prepared: 04/11/23 Analyzed: 04/11/23		
Chloride	252	20.0	250	ND	101	80-120			
Matrix Spike Dup (2315034-MSD1)					Source: E304038-21		Prepared: 04/11/23 Analyzed: 04/11/23		
Chloride	274	20.0	250	ND	109	80-120	8.24	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:	Cobber 21-33 3H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	04/17/23 09:27

- M2 Matrix spike recovery was outside quality control limits. 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 3 of 5

Client: Pima Environmental Services					Bill To		Lab Use Only				TAT				EPA Program	
Project: <u>Cobber 21-33 3H</u>					Attention: <u>Devon</u>		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum					Address:		<u>E304049</u>		<u>010580007</u>					<u>X</u>		
Address: 5614 N. Lovington Hwy.					City, State, Zip		<u>E304038</u>		Analysis and Method		RCRA					
City, State, Zip: Hobbs, NM, 88240					Phone:						State					
Phone: 580-748-1613					Email:						NM CO UT AZ TX					
Email: tom@pimaoil.com					Pima Project # <u>286</u>						Remarks					
Report due by:																

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
1:40	4/7/23	S	1	SG-1'	1							<u>X</u>		
1:45				SG-2'	2									
1:50				SG-3'	3									
1:55				SG-4'	4									
2:00				SG-1'	5									
2:05				SG-2'	6									
2:10				SG-3'	7									
2:15				SG-4'	8									
2:20				SG-1'	9									
2:25	<u>✓</u>	<u>✓</u>	<u>✓</u>	SG-2'	10							<u>✓</u>		

Additional Instructions: Billing #: 21146772

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) AF Date 4-10-23 Time 2:00 Received by: (Signature) Michelle Guys Date 4-10-23 Time 1630

Relinquished by: (Signature) Michelle Guys Date 4-10-23 Time 1830 Received by: (Signature) Lorenzo Date 4-10-23 Time 1830

Relinquished by: (Signature) Lorenzo Date 4-10-23 Time 2415 Received by: (Signature) Andrew Franco Date 4-11-23 Time 7:15

Sample Matrix: S - 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.

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## Project Information

## Chain of Custody

Page 4 of 5

Client: Pima Environmental Services Project: <u>Cobber 21-33 3H</u> Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: <u>Hobbs, NM, 88240</u> Phone: 580-748-1613 Email: <u>tom@pimaoil.com</u> Report due by:					Bill To Attention: <u>Devon</u> Address: City, State, Zip: Phone: Email: Pima Project # <u>286</u>					Lab Use Only Lab WO# <u>E 304049</u> Job Number <u>00580007</u> <u>E 304038</u> Analysis and Method					TAT 1D 2D 3D Standard <u>X</u>				EPA Program CWA SDWA RCRA	
														State NM CO UT AZ TX <u>X</u>						
														Remarks						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC NM	BGDOC TX						
2:30	4/7/23	S	1	S8-3'	11								X							
2:35				S8-4'	12															
2:40				S9-1'	13															
2:45				S9-2'	14															
2:50				S9-3'	15															
2:55				S9-4'	16															
3:00				SW1	17															
3:05				SW2	18															
3:10				SW3	19															
3:15				SW4	20															
Additional Instructions: <u>Billing #: 21146772</u>																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Andrew Franco</u>																				
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>AF</u>					Date <u>4-10-23</u>		Time <u>2:00</u>		Received by: (Signature) <u>Michelle Gayle</u>					Date <u>4-10-23</u>		Time <u>1640</u>		Lab Use Only Received on ice: <u>(Y) N</u>		
Relinquished by: (Signature) <u>Michelle Gayle</u>					Date <u>4-10-23</u>		Time <u>1830</u>		Received by: (Signature) <u>Forense</u>					Date <u>4-10-23</u>		Time <u>1830</u>		T1: T2: T3:		
Relinquished by: (Signature) <u>Forense</u>					Date <u>4-11-23</u>		Time <u>2413</u>		Received by: (Signature) <u>Ally</u>					Date <u>4-11-23</u>		Time <u>7:15</u>		AVG Temp °C <u>4</u>		
Sample Matrix: <u>S</u> - Soil, <u>Sd</u> - Solid, <u>Sg</u> - Sludge, <u>A</u> - Aqueous, <u>O</u> - Other																				
Container Type: <u>g</u> - glass, <u>p</u> - poly/plastic, <u>ag</u> - amber glass, <u>v</u> - 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.																				

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## Envirotech Analytical Laboratory

Printed: 4/11/2023 12:15:26PM

## 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:	04/11/23 07:15	Work Order ID:	E304038
Phone:	(575) 631-6977	Date Logged In:	04/11/23 08:29	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	04/17/23 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/Resolution

Project Cobber 21-33 3H has been separated into 2 reports due to sample volume. Workorders are as follows: E304037 & E304038.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:  
Tom Bynum



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Cobber 21-33 Fed. Com 3H

Work Order: E306016

Job Number: 01058-0007

Received: 6/3/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/5/23

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: 6/5/23

Tom Bynum  
PO Box 247  
Plains, TX 79355-0247



Project Name: Cobber 21-33 Fed. Com 3H  
Workorder: E306016  
Date Received: 6/3/2023 12:15:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/3/2023 12:15:00AM, under the Project Name: Cobber 23-22 Fed. Com 3H.

The analytical test results summarized in this report with the Project Name: Cobber 23-22 Fed. Com 3H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
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**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
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**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Cobber 21-33 Fed. Com 3H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	06/05/23 11:52

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS1	E306016-01A	Soil	06/01/23	06/03/23	Glass Jar, 2 oz.
CS2	E306016-02A	Soil	06/01/23	06/03/23	Glass Jar, 2 oz.
CS3	E306016-03A	Soil	06/01/23	06/03/23	Glass Jar, 2 oz.
CS4	E306016-04A	Soil	06/01/23	06/03/23	Glass Jar, 2 oz.
CS5	E306016-05A	Soil	06/01/23	06/03/23	Glass Jar, 2 oz.
CS6	E306016-06A	Soil	06/01/23	06/03/23	Glass Jar, 2 oz.
CS7	E306016-07A	Soil	06/01/23	06/03/23	Glass Jar, 2 oz.
CS8	E306016-08A	Soil	06/01/23	06/03/23	Glass Jar, 2 oz.
CSW1	E306016-09A	Soil	06/02/23	06/03/23	Glass Jar, 2 oz.
CSW2	E306016-10A	Soil	06/02/23	06/03/23	Glass Jar, 2 oz.
CSW3	E306016-11A	Soil	06/02/23	06/03/23	Glass Jar, 2 oz.
CSW4	E306016-12A	Soil	06/02/23	06/03/23	Glass Jar, 2 oz.
CSW5	E306016-13A	Soil	06/02/23	06/03/23	Glass Jar, 2 oz.
CSW6	E306016-14A	Soil	06/02/23	06/03/23	Glass Jar, 2 oz.
CSW7	E306016-15A	Soil	06/02/23	06/03/23	Glass Jar, 2 oz.
CSW8	E306016-16A	Soil	06/02/23	06/03/23	Glass Jar, 2 oz.
CSW9	E306016-17A	Soil	06/02/23	06/03/23	Glass Jar, 2 oz.
CSW10	E306016-18A	Soil	06/02/23	06/03/23	Glass Jar, 2 oz.
CSW11	E306016-19A	Soil	06/02/23	06/03/23	Glass Jar, 2 oz.
CSW12	E306016-20A	Soil	06/02/23	06/03/23	Glass Jar, 2 oz.
CSW13	E306016-21A	Soil	06/02/23	06/03/23	Glass Jar, 2 oz.
CSW14	E306016-22A	Soil	06/02/23	06/03/23	Glass Jar, 2 oz.
CSW15	E306016-23A	Soil	06/02/23	06/03/23	Glass Jar, 2 oz.
CSW16	E306016-24A	Soil	06/02/23	06/03/23	Glass Jar, 2 oz.



## Sample Data

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

Project Name: Cobber 21-33 Fed. Com 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/5/2023 11:52:44AM

## CS1

## E306016-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Benzene	ND	0.0250	1	06/03/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/03/23	06/03/23	
Toluene	ND	0.0250	1	06/03/23	06/03/23	
o-Xylene	ND	0.0250	1	06/03/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/03/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/03/23	06/03/23	
Surrogate: Bromofluorobenzene	98.3 %	70-130		06/03/23	06/03/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		06/03/23	06/03/23	
Surrogate: Toluene-d8	93.3 %	70-130		06/03/23	06/03/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/23	06/03/23	
Surrogate: Bromofluorobenzene	98.3 %	70-130		06/03/23	06/03/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		06/03/23	06/03/23	
Surrogate: Toluene-d8	93.3 %	70-130		06/03/23	06/03/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322077
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/23	06/03/23	
Surrogate: n-Nonane	107 %	50-200		06/03/23	06/03/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322067
Chloride	ND	20.0	1	06/02/23	06/03/23	



## Sample Data

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

Project Name: Cobber 21-33 Fed. Com 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/5/2023 11:52:44AM

## CS2

## E306016-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Benzene	ND	0.0250	1	06/03/23	06/04/23	
Ethylbenzene	ND	0.0250	1	06/03/23	06/04/23	
Toluene	ND	0.0250	1	06/03/23	06/04/23	
o-Xylene	ND	0.0250	1	06/03/23	06/04/23	
p,m-Xylene	ND	0.0500	1	06/03/23	06/04/23	
Total Xylenes	ND	0.0250	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	99.7 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	93.4 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	99.7 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	93.4 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322077
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/23	06/03/23	
Surrogate: n-Nonane	101 %	50-200		06/03/23	06/03/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322067
Chloride	ND	20.0	1	06/02/23	06/03/23	



## Sample Data

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

Project Name: Cobber 21-33 Fed. Com 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/5/2023 11:52:44AM

## CS3

## E306016-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Benzene	ND	0.0250	1	06/03/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/03/23	06/03/23	
Toluene	ND	0.0250	1	06/03/23	06/03/23	
o-Xylene	ND	0.0250	1	06/03/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/03/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/03/23	06/03/23	
Surrogate: Bromofluorobenzene	99.0 %	70-130		06/03/23	06/03/23	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		06/03/23	06/03/23	
Surrogate: Toluene-d8	92.6 %	70-130		06/03/23	06/03/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/23	06/03/23	
Surrogate: Bromofluorobenzene	99.0 %	70-130		06/03/23	06/03/23	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		06/03/23	06/03/23	
Surrogate: Toluene-d8	92.6 %	70-130		06/03/23	06/03/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322077
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/23	06/03/23	
Surrogate: n-Nonane	102 %	50-200		06/03/23	06/03/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322067
Chloride	ND	20.0	1	06/02/23	06/03/23	



## Sample Data

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

Project Name: Cobber 21-33 Fed. Com 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/5/2023 11:52:44AM

## CS4

## E306016-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Benzene	ND	0.0250	1	06/03/23	06/04/23	
Ethylbenzene	ND	0.0250	1	06/03/23	06/04/23	
Toluene	ND	0.0250	1	06/03/23	06/04/23	
o-Xylene	ND	0.0250	1	06/03/23	06/04/23	
p,m-Xylene	ND	0.0500	1	06/03/23	06/04/23	
Total Xylenes	ND	0.0250	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	97.6 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	94.4 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	97.6 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	94.4 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322077
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/23	06/03/23	
Surrogate: n-Nonane	104 %	50-200		06/03/23	06/03/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322067
Chloride	ND	20.0	1	06/02/23	06/03/23	





## Sample Data

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

Project Name: Cobber 21-33 Fed. Com 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/5/2023 11:52:44AM

## CS5

## E306016-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Benzene	ND	0.0250	1	06/03/23	06/04/23	
Ethylbenzene	ND	0.0250	1	06/03/23	06/04/23	
Toluene	ND	0.0250	1	06/03/23	06/04/23	
o-Xylene	ND	0.0250	1	06/03/23	06/04/23	
p,m-Xylene	ND	0.0500	1	06/03/23	06/04/23	
Total Xylenes	ND	0.0250	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	98.0 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	93.3 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	98.0 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	93.3 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322077
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/23	06/03/23	
Surrogate: n-Nonane	100 %	50-200		06/03/23	06/03/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322067
Chloride	ND	20.0	1	06/02/23	06/03/23	



## Sample Data

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

Project Name: Cobber 21-33 Fed. Com 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/5/2023 11:52:44AM

## CS6

## E306016-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Benzene	ND	0.0250	1	06/03/23	06/04/23	
Ethylbenzene	ND	0.0250	1	06/03/23	06/04/23	
Toluene	ND	0.0250	1	06/03/23	06/04/23	
o-Xylene	ND	0.0250	1	06/03/23	06/04/23	
p,m-Xylene	ND	0.0500	1	06/03/23	06/04/23	
Total Xylenes	ND	0.0250	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	97.3 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	94.1 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	97.3 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	94.1 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322077
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/23	06/03/23	
Surrogate: n-Nonane	100 %	50-200		06/03/23	06/03/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322067
Chloride	ND	20.0	1	06/02/23	06/03/23	



## Sample Data

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

Project Name: Cobber 21-33 Fed. Com 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/5/2023 11:52:44AM

CS7

E306016-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Benzene	ND	0.0250	1	06/03/23	06/04/23	
Ethylbenzene	ND	0.0250	1	06/03/23	06/04/23	
Toluene	ND	0.0250	1	06/03/23	06/04/23	
o-Xylene	ND	0.0250	1	06/03/23	06/04/23	
p,m-Xylene	ND	0.0500	1	06/03/23	06/04/23	
Total Xylenes	ND	0.0250	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	98.3 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	93.2 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	98.3 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	93.2 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322077
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/23	06/03/23	
Surrogate: n-Nonane	103 %	50-200		06/03/23	06/03/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322067
Chloride	ND	20.0	1	06/02/23	06/03/23	



## Sample Data

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

Project Name: Cobber 23-22 Fed. Com 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/5/2023 11:52:44AM

## CS8

## E306016-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Benzene	ND	0.0250	1	06/03/23	06/04/23	
Ethylbenzene	ND	0.0250	1	06/03/23	06/04/23	
Toluene	ND	0.0250	1	06/03/23	06/04/23	
o-Xylene	ND	0.0250	1	06/03/23	06/04/23	
p,m-Xylene	ND	0.0500	1	06/03/23	06/04/23	
Total Xylenes	ND	0.0250	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	98.8 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	94.1 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	98.8 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	94.1 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322077
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/23	06/03/23	
Surrogate: n-Nonane	101 %	50-200		06/03/23	06/03/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322067
Chloride	ND	20.0	1	06/02/23	06/03/23	



## Sample Data

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

Project Name: Cobber 21-33 Fed. Com 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/5/2023 11:52:44AM

## CSW1

## E306016-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Benzene	ND	0.0250	1	06/03/23	06/04/23	
Ethylbenzene	ND	0.0250	1	06/03/23	06/04/23	
Toluene	ND	0.0250	1	06/03/23	06/04/23	
o-Xylene	ND	0.0250	1	06/03/23	06/04/23	
p,m-Xylene	ND	0.0500	1	06/03/23	06/04/23	
Total Xylenes	ND	0.0250	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	98.1 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	93.5 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	98.1 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	93.5 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322077
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/23	06/03/23	
Surrogate: n-Nonane	95.3 %	50-200		06/03/23	06/03/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322067
Chloride	ND	20.0	1	06/02/23	06/03/23	





## Sample Data

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

Project Name: Cobber 21-33 Fed. Com 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/5/2023 11:52:44AM

## CSW2

## E306016-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Benzene	ND	0.0250	1	06/03/23	06/04/23	
Ethylbenzene	ND	0.0250	1	06/03/23	06/04/23	
Toluene	ND	0.0250	1	06/03/23	06/04/23	
o-Xylene	ND	0.0250	1	06/03/23	06/04/23	
p,m-Xylene	ND	0.0500	1	06/03/23	06/04/23	
Total Xylenes	ND	0.0250	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	98.4 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	93.2 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	98.4 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	93.2 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322077
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/23	06/03/23	
Surrogate: n-Nonane	97.6 %	50-200		06/03/23	06/03/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322067
Chloride	ND	20.0	1	06/02/23	06/03/23	



## Sample Data

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

Project Name: Cobber 21-33 Fed. Com 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/5/2023 11:52:44AM

## CSW3

## E306016-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Benzene	ND	0.0250	1	06/03/23	06/04/23	
Ethylbenzene	ND	0.0250	1	06/03/23	06/04/23	
Toluene	ND	0.0250	1	06/03/23	06/04/23	
o-Xylene	ND	0.0250	1	06/03/23	06/04/23	
p,m-Xylene	ND	0.0500	1	06/03/23	06/04/23	
Total Xylenes	ND	0.0250	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	98.6 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	93.9 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	98.6 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	93.9 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322077
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/23	06/03/23	
Surrogate: n-Nonane	101 %	50-200		06/03/23	06/03/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322067
Chloride	ND	20.0	1	06/02/23	06/03/23	



## Sample Data

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

Project Name: Cobber 21-33 Fed. Com 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/5/2023 11:52:44AM

## CSW4

## E306016-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Benzene	ND	0.0250	1	06/03/23	06/04/23	
Ethylbenzene	ND	0.0250	1	06/03/23	06/04/23	
Toluene	ND	0.0250	1	06/03/23	06/04/23	
o-Xylene	ND	0.0250	1	06/03/23	06/04/23	
p,m-Xylene	ND	0.0500	1	06/03/23	06/04/23	
Total Xylenes	ND	0.0250	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	99.1 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	93.7 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	99.1 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	93.7 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322077
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/23	06/03/23	
Surrogate: n-Nonane	95.3 %	50-200		06/03/23	06/03/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322067
Chloride	ND	20.0	1	06/02/23	06/03/23	



## Sample Data

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

Project Name: Cobber 21-33 Fed. Com 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/5/2023 11:52:44AM

## CSW5

## E306016-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Benzene	ND	0.0250	1	06/03/23	06/04/23	
Ethylbenzene	ND	0.0250	1	06/03/23	06/04/23	
Toluene	ND	0.0250	1	06/03/23	06/04/23	
o-Xylene	ND	0.0250	1	06/03/23	06/04/23	
p,m-Xylene	ND	0.0500	1	06/03/23	06/04/23	
Total Xylenes	ND	0.0250	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	98.3 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	94.0 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	98.3 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	94.0 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322077
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/23	06/03/23	
Surrogate: n-Nonane	96.1 %	50-200		06/03/23	06/03/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322067
Chloride	ND	20.0	1	06/02/23	06/03/23	



## Sample Data

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

Project Name: Cobber 21-33 Fed. Com 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/5/2023 11:52:44AM

## CSW6

## E306016-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Benzene	ND	0.0250	1	06/03/23	06/04/23	
Ethylbenzene	ND	0.0250	1	06/03/23	06/04/23	
Toluene	ND	0.0250	1	06/03/23	06/04/23	
o-Xylene	ND	0.0250	1	06/03/23	06/04/23	
p,m-Xylene	ND	0.0500	1	06/03/23	06/04/23	
Total Xylenes	ND	0.0250	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	97.6 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	93.1 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	97.6 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	93.1 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322077
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/23	06/03/23	
Surrogate: n-Nonane	96.5 %	50-200		06/03/23	06/03/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322067
Chloride	ND	20.0	1	06/02/23	06/03/23	





## Sample Data

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

Project Name: Cobber 21-33 Fed. Com 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/5/2023 11:52:44AM

## CSW7

## E306016-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Benzene	ND	0.0250	1	06/03/23	06/04/23	
Ethylbenzene	ND	0.0250	1	06/03/23	06/04/23	
Toluene	ND	0.0250	1	06/03/23	06/04/23	
o-Xylene	ND	0.0250	1	06/03/23	06/04/23	
p,m-Xylene	ND	0.0500	1	06/03/23	06/04/23	
Total Xylenes	ND	0.0250	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	98.0 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	93.0 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	98.0 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	93.0 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322077
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/23	06/03/23	
Surrogate: n-Nonane	103 %	50-200		06/03/23	06/03/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322067
Chloride	ND	20.0	1	06/02/23	06/03/23	



## Sample Data

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

Project Name: Cobber 21-33 Fed. Com 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/5/2023 11:52:44AM

## CSW8

## E306016-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Benzene	ND	0.0250	1	06/03/23	06/04/23	
Ethylbenzene	ND	0.0250	1	06/03/23	06/04/23	
Toluene	ND	0.0250	1	06/03/23	06/04/23	
o-Xylene	ND	0.0250	1	06/03/23	06/04/23	
p,m-Xylene	ND	0.0500	1	06/03/23	06/04/23	
Total Xylenes	ND	0.0250	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	98.0 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	94.1 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	98.0 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	94.1 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322077
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/23	06/03/23	
Surrogate: n-Nonane	105 %	50-200		06/03/23	06/03/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322067
Chloride	ND	20.0	1	06/02/23	06/03/23	



## Sample Data

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

Project Name: Cobber 21-33 Fed. Com 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/5/2023 11:52:44AM

## CSW9

## E306016-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Benzene	ND	0.0250	1	06/03/23	06/04/23	
Ethylbenzene	ND	0.0250	1	06/03/23	06/04/23	
Toluene	ND	0.0250	1	06/03/23	06/04/23	
o-Xylene	ND	0.0250	1	06/03/23	06/04/23	
p,m-Xylene	ND	0.0500	1	06/03/23	06/04/23	
Total Xylenes	ND	0.0250	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	99.7 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	94.1 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	99.7 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	94.1 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322077
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/23	06/03/23	
Surrogate: n-Nonane	97.1 %	50-200		06/03/23	06/03/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322067
Chloride	ND	20.0	1	06/02/23	06/03/23	



## Sample Data

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

Project Name: Cobber 21-33 Fed. Com 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/5/2023 11:52:44AM

## CSW10

## E306016-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Benzene	ND	0.0250	1	06/03/23	06/04/23	
Ethylbenzene	ND	0.0250	1	06/03/23	06/04/23	
Toluene	ND	0.0250	1	06/03/23	06/04/23	
o-Xylene	ND	0.0250	1	06/03/23	06/04/23	
p,m-Xylene	ND	0.0500	1	06/03/23	06/04/23	
Total Xylenes	ND	0.0250	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	99.5 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	93.4 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	99.5 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	93.4 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322077
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/23	06/03/23	
Surrogate: n-Nonane	99.1 %	50-200		06/03/23	06/03/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322067
Chloride	ND	20.0	1	06/02/23	06/03/23	



## Sample Data

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

Project Name: Cobber 21-33 Fed. Com 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/5/2023 11:52:44AM

## CSW11

## E306016-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Benzene	ND	0.0250	1	06/03/23	06/04/23	
Ethylbenzene	ND	0.0250	1	06/03/23	06/04/23	
Toluene	ND	0.0250	1	06/03/23	06/04/23	
o-Xylene	ND	0.0250	1	06/03/23	06/04/23	
p,m-Xylene	ND	0.0500	1	06/03/23	06/04/23	
Total Xylenes	ND	0.0250	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	98.5 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	93.4 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	98.5 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	93.4 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322077
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/23	06/03/23	
Surrogate: n-Nonane	102 %	50-200		06/03/23	06/03/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322067
Chloride	ND	20.0	1	06/02/23	06/03/23	





## Sample Data

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

Project Name: Cobber 21-33 Fed. Com 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/5/2023 11:52:44AM

## CSW12

## E306016-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Benzene	ND	0.0250	1	06/03/23	06/04/23	
Ethylbenzene	ND	0.0250	1	06/03/23	06/04/23	
Toluene	ND	0.0250	1	06/03/23	06/04/23	
o-Xylene	ND	0.0250	1	06/03/23	06/04/23	
p,m-Xylene	ND	0.0500	1	06/03/23	06/04/23	
Total Xylenes	ND	0.0250	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	98.4 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	94.4 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322076
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/23	06/04/23	
Surrogate: Bromofluorobenzene	98.4 %	70-130		06/03/23	06/04/23	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		06/03/23	06/04/23	
Surrogate: Toluene-d8	94.4 %	70-130		06/03/23	06/04/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322077
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/23	06/03/23	
Surrogate: n-Nonane	103 %	50-200		06/03/23	06/03/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322067
Chloride	ND	20.0	1	06/02/23	06/03/23	



## Sample Data

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

Project Name: Cobber 21-33 Fed. Com 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/5/2023 11:52:44AM

## CSW13

## E306016-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322074
Benzene	ND	0.0250	1	06/03/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/03/23	06/03/23	
Toluene	ND	0.0250	1	06/03/23	06/03/23	
o-Xylene	ND	0.0250	1	06/03/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/03/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/03/23	06/03/23	
Surrogate: Bromofluorobenzene	98.6 %	70-130		06/03/23	06/03/23	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		06/03/23	06/03/23	
Surrogate: Toluene-d8	93.8 %	70-130		06/03/23	06/03/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322074
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/23	06/03/23	
Surrogate: Bromofluorobenzene	98.6 %	70-130		06/03/23	06/03/23	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		06/03/23	06/03/23	
Surrogate: Toluene-d8	93.8 %	70-130		06/03/23	06/03/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322078
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/23	06/03/23	
Surrogate: n-Nonane	87.4 %	50-200		06/03/23	06/03/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322065
Chloride	ND	20.0	1	06/02/23	06/03/23	



## Sample Data

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

Project Name: Cobber 21-33 Fed. Com 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/5/2023 11:52:44AM

## CSW14

## E306016-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322074
Benzene	ND	0.0250	1	06/03/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/03/23	06/03/23	
Toluene	ND	0.0250	1	06/03/23	06/03/23	
o-Xylene	ND	0.0250	1	06/03/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/03/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/03/23	06/03/23	
Surrogate: Bromofluorobenzene	98.4 %	70-130		06/03/23	06/03/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		06/03/23	06/03/23	
Surrogate: Toluene-d8	93.2 %	70-130		06/03/23	06/03/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322074
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/23	06/03/23	
Surrogate: Bromofluorobenzene	98.4 %	70-130		06/03/23	06/03/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		06/03/23	06/03/23	
Surrogate: Toluene-d8	93.2 %	70-130		06/03/23	06/03/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322078
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/23	06/03/23	
Surrogate: n-Nonane	85.8 %	50-200		06/03/23	06/03/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322065
Chloride	ND	20.0	1	06/02/23	06/03/23	



## Sample Data

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

Project Name: Cobber 21-33 Fed. Com 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/5/2023 11:52:44AM

## CSW15

## E306016-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322074
Benzene	ND	0.0250	1	06/03/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/03/23	06/03/23	
Toluene	ND	0.0250	1	06/03/23	06/03/23	
o-Xylene	ND	0.0250	1	06/03/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/03/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/03/23	06/03/23	
Surrogate: Bromofluorobenzene	98.3 %	70-130		06/03/23	06/03/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		06/03/23	06/03/23	
Surrogate: Toluene-d8	92.6 %	70-130		06/03/23	06/03/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322074
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/23	06/03/23	
Surrogate: Bromofluorobenzene	98.3 %	70-130		06/03/23	06/03/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		06/03/23	06/03/23	
Surrogate: Toluene-d8	92.6 %	70-130		06/03/23	06/03/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322078
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/23	06/03/23	
Surrogate: n-Nonane	84.9 %	50-200		06/03/23	06/03/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322065
Chloride	ND	20.0	1	06/02/23	06/03/23	



## Sample Data

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

Project Name: Cobber 21-33 Fed. Com 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/5/2023 11:52:44AM

## CSW16

## E306016-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322074
Benzene	ND	0.0250	1	06/03/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/03/23	06/03/23	
Toluene	ND	0.0250	1	06/03/23	06/03/23	
o-Xylene	ND	0.0250	1	06/03/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/03/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/03/23	06/03/23	
Surrogate: Bromofluorobenzene	96.8 %	70-130		06/03/23	06/03/23	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		06/03/23	06/03/23	
Surrogate: Toluene-d8	93.7 %	70-130		06/03/23	06/03/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322074
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/23	06/03/23	
Surrogate: Bromofluorobenzene	96.8 %	70-130		06/03/23	06/03/23	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		06/03/23	06/03/23	
Surrogate: Toluene-d8	93.7 %	70-130		06/03/23	06/03/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322078
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/23	06/03/23	
Surrogate: n-Nonane	88.4 %	50-200		06/03/23	06/03/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322065
Chloride	ND	20.0	1	06/02/23	06/03/23	





## QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cobber 21-33 Fed. Com 3H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/5/2023 11:52:44AM

## Volatile Organic Compounds by EPA 8260B

Analyst: SL

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 (2322074-BLK1)

Prepared: 06/03/23 Analyzed: 06/03/23

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: Bromofluorobenzene	0.496		0.500		99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.521		0.500		104	70-130			
Surrogate: Toluene-d8	0.468		0.500		93.5	70-130			

## LCS (2322074-BS1)

Prepared: 06/03/23 Analyzed: 06/03/23

Benzene	2.66	0.0250	2.50		107	70-130			
Ethylbenzene	2.46	0.0250	2.50		98.5	70-130			
Toluene	2.40	0.0250	2.50		96.0	70-130			
o-Xylene	2.41	0.0250	2.50		96.4	70-130			
p,m-Xylene	4.60	0.0500	5.00		91.9	70-130			
Total Xylenes	7.01	0.0250	7.50		93.4	70-130			
Surrogate: Bromofluorobenzene	0.494		0.500		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.531		0.500		106	70-130			
Surrogate: Toluene-d8	0.461		0.500		92.2	70-130			

## Matrix Spike (2322074-MS1)

Source: E306014-03

Prepared: 06/03/23 Analyzed: 06/03/23

Benzene	2.61	0.0250	2.50	ND	104	48-131			
Ethylbenzene	2.43	0.0250	2.50	ND	97.2	45-135			
Toluene	2.37	0.0250	2.50	ND	94.8	48-130			
o-Xylene	2.38	0.0250	2.50	ND	95.1	43-135			
p,m-Xylene	4.52	0.0500	5.00	ND	90.4	43-135			
Total Xylenes	6.90	0.0250	7.50	ND	92.0	43-135			
Surrogate: Bromofluorobenzene	0.492		0.500		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.534		0.500		107	70-130			
Surrogate: Toluene-d8	0.456		0.500		91.1	70-130			

## Matrix Spike Dup (2322074-MSD1)

Source: E306014-03

Prepared: 06/03/23 Analyzed: 06/03/23

Benzene	2.91	0.0250	2.50	ND	116	48-131	10.9	23	
Ethylbenzene	2.69	0.0250	2.50	ND	107	45-135	9.95	27	
Toluene	2.64	0.0250	2.50	ND	106	48-130	10.8	24	
o-Xylene	2.67	0.0250	2.50	ND	107	43-135	11.6	27	
p,m-Xylene	5.08	0.0500	5.00	ND	102	43-135	11.6	27	
Total Xylenes	7.75	0.0250	7.50	ND	103	43-135	11.6	27	
Surrogate: Bromofluorobenzene	0.493		0.500		98.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.530		0.500		106	70-130			
Surrogate: Toluene-d8	0.457		0.500		91.3	70-130			



## QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cobber 21-33 Fed. Com 3H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/5/2023 11:52:44AM

## Volatile Organic Compounds by EPA 8260B

Analyst: SL

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

## Blank (2322076-BLK1)

Prepared: 06/03/23 Analyzed: 06/03/23

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: Bromofluorobenzene	0.491		0.500		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.524		0.500		105	70-130			
Surrogate: Toluene-d8	0.468		0.500		93.5	70-130			

## LCS (2322076-BS1)

Prepared: 06/03/23 Analyzed: 06/03/23

Benzene	2.62	0.0250	2.50		105	70-130			
Ethylbenzene	2.45	0.0250	2.50		97.9	70-130			
Toluene	2.39	0.0250	2.50		95.7	70-130			
o-Xylene	2.40	0.0250	2.50		95.9	70-130			
p,m-Xylene	4.54	0.0500	5.00		90.8	70-130			
Total Xylenes	6.94	0.0250	7.50		92.5	70-130			
Surrogate: Bromofluorobenzene	0.487		0.500		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.535		0.500		107	70-130			
Surrogate: Toluene-d8	0.460		0.500		91.9	70-130			

## Matrix Spike (2322076-MS1)

Source: E306016-03

Prepared: 06/03/23 Analyzed: 06/03/23

Benzene	2.44	0.0250	2.50	ND	97.7	48-131			
Ethylbenzene	2.27	0.0250	2.50	ND	90.7	45-135			
Toluene	2.22	0.0250	2.50	ND	88.8	48-130			
o-Xylene	2.19	0.0250	2.50	ND	87.8	43-135			
p,m-Xylene	4.16	0.0500	5.00	ND	83.2	43-135			
Total Xylenes	6.35	0.0250	7.50	ND	84.7	43-135			
Surrogate: Bromofluorobenzene	0.488		0.500		97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.543		0.500		109	70-130			
Surrogate: Toluene-d8	0.460		0.500		92.0	70-130			

## Matrix Spike Dup (2322076-MSD1)

Source: E306016-03

Prepared: 06/03/23 Analyzed: 06/03/23

Benzene	2.18	0.0250	2.50	ND	87.2	48-131	11.3	23	
Ethylbenzene	2.02	0.0250	2.50	ND	80.9	45-135	11.5	27	
Toluene	1.99	0.0250	2.50	ND	79.8	48-130	10.7	24	
o-Xylene	1.97	0.0250	2.50	ND	78.8	43-135	10.7	27	
p,m-Xylene	3.76	0.0500	5.00	ND	75.1	43-135	10.2	27	
Total Xylenes	5.73	0.0250	7.50	ND	76.4	43-135	10.3	27	
Surrogate: Bromofluorobenzene	0.494		0.500		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.464		0.500		92.7	70-130			



## QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cobber 21-33 Fed. Com 3H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/5/2023 11:52:44AM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2322074-BLK1)

Prepared: 06/03/23 Analyzed: 06/03/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.496		0.500		99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.521		0.500		104	70-130			
Surrogate: Toluene-d8	0.468		0.500		93.5	70-130			

## LCS (2322074-BS2)

Prepared: 06/03/23 Analyzed: 06/03/23

Gasoline Range Organics (C6-C10)	41.2	20.0	50.0		82.3	70-130			
Surrogate: Bromofluorobenzene	0.494		0.500		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.536		0.500		107	70-130			
Surrogate: Toluene-d8	0.466		0.500		93.1	70-130			

## Matrix Spike (2322074-MS2)

Source: E306014-03

Prepared: 06/03/23 Analyzed: 06/03/23

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0	ND	84.0	70-130			
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.532		0.500		106	70-130			
Surrogate: Toluene-d8	0.464		0.500		92.8	70-130			

## Matrix Spike Dup (2322074-MSD2)

Source: E306014-03

Prepared: 06/03/23 Analyzed: 06/03/23

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0	ND	85.6	70-130	1.80	20	
Surrogate: Bromofluorobenzene	0.494		0.500		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.539		0.500		108	70-130			
Surrogate: Toluene-d8	0.471		0.500		94.1	70-130			



## QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cobber 21-33 Fed. Com 3H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/5/2023 11:52:44AM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2322076-BLK1)

Prepared: 06/03/23 Analyzed: 06/03/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.491		0.500		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.524		0.500		105	70-130			
Surrogate: Toluene-d8	0.468		0.500		93.5	70-130			

## LCS (2322076-BS2)

Prepared: 06/03/23 Analyzed: 06/03/23

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0		89.3	70-130			
Surrogate: Bromofluorobenzene	0.500		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.519		0.500		104	70-130			
Surrogate: Toluene-d8	0.467		0.500		93.3	70-130			

## Matrix Spike (2322076-MS2)

Source: E306016-03

Prepared: 06/03/23 Analyzed: 06/03/23

Gasoline Range Organics (C6-C10)	39.9	20.0	50.0	ND	79.8	70-130			
Surrogate: Bromofluorobenzene	0.490		0.500		97.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.527		0.500		105	70-130			
Surrogate: Toluene-d8	0.467		0.500		93.4	70-130			

## Matrix Spike Dup (2322076-MSD2)

Source: E306016-03

Prepared: 06/03/23 Analyzed: 06/03/23

Gasoline Range Organics (C6-C10)	35.5	20.0	50.0	ND	71.0	70-130	11.7	20	
Surrogate: Bromofluorobenzene	0.492		0.500		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.468		0.500		93.5	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cobber 21-33 Fed. Com 3H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/5/2023 11:52:44AM

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 (2322077-BLK1) Prepared: 06/03/23 Analyzed: 06/03/23

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 (2322077-BS1) Prepared: 06/03/23 Analyzed: 06/03/23

Diesel Range Organics (C10-C28)	267	25.0	250		107	38-132			
Surrogate: n-Nonane	52.1		50.0		104	50-200			

Matrix Spike (2322077-MS1) Source: E306016-16 Prepared: 06/03/23 Analyzed: 06/03/23

Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	38-132			
Surrogate: n-Nonane	49.5		50.0		99.1	50-200			

Matrix Spike Dup (2322077-MSD1) Source: E306016-16 Prepared: 06/03/23 Analyzed: 06/03/23

Diesel Range Organics (C10-C28)	273	25.0	250	ND	109	38-132	0.413	20	
Surrogate: n-Nonane	49.2		50.0		98.4	50-200			





## QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cobber 21-33 Fed. Com 3H	<b>Reported:</b>
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/5/2023 11:52:44AM

## 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 (2322078-BLK1)

Prepared: 06/03/23 Analyzed: 06/03/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	44.8		50.0		89.5	50-200			

## LCS (2322078-BS1)

Prepared: 06/03/23 Analyzed: 06/03/23

Diesel Range Organics (C10-C28)	199	25.0	250		79.6	38-132			
Surrogate: <i>n</i> -Nonane	37.9		50.0		75.9	50-200			

## Matrix Spike (2322078-MS1)

Source: E306014-07

Prepared: 06/03/23 Analyzed: 06/05/23

Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.3	38-132			
Surrogate: <i>n</i> -Nonane	44.2		50.0		88.5	50-200			

## Matrix Spike Dup (2322078-MSD1)

Source: E306014-07

Prepared: 06/03/23 Analyzed: 06/03/23

Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.3	38-132	2.05	20	
Surrogate: <i>n</i> -Nonane	42.0		50.0		84.1	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cobber 21-33 Fed. Com 3H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/5/2023 11:52:44AM

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2322065-BLK1)					Prepared: 06/02/23 Analyzed: 06/03/23				
Chloride	ND	20.0							
LCS (2322065-BS1)					Prepared: 06/02/23 Analyzed: 06/03/23				
Chloride	247	20.0	250		98.8	90-110			
LCS Dup (2322065-BSD1)					Prepared: 06/02/23 Analyzed: 06/03/23				
Chloride	247	20.0	250		98.8	90-110	0.0830	20	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cobber 21-33 Fed. Com 3H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/5/2023 11:52:44AM

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2322067-BLK1)					Prepared: 06/02/23 Analyzed: 06/03/23				
Chloride	ND	20.0							
LCS (2322067-BS1)					Prepared: 06/02/23 Analyzed: 06/03/23				
Chloride	242	20.0	250		96.7	90-110			
LCS Dup (2322067-BSD1)					Prepared: 06/02/23 Analyzed: 06/03/23				
Chloride	250	20.0	250		99.9	90-110	3.24	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:	Cobber 21-33 Fed. Com 3H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	06/05/23 11:52

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



## Project Information

## Chain of Custody

Page 1 of 3

Client: Pima Environmental Services Project: <u>Cobher 23 33 Fed. Com 3H</u> Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: <u>Hobbs, NM, 88240</u> Phone: 580-748-1613 Email: <u>tom@pimaoil.com</u> Report due by:					Bill To Attention: <u>Devon</u> Address: City, State, Zip Phone: Email: Pima Project # <u>286</u>					Lab Use Only Lab WO# <u>E306046</u> Job Number <u>01058-0007</u> Analysis and Method DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM BGDOC TX					TAT 1D 2D 3D Standard <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				EPA Program CWA SDWA RCRA State NM CO UT AZ TX	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks						
9:00	6/1/23	S	1	CS1	1							X								
9:05				CS2	2															
9:10				CS3	3															
9:15				CS4	4															
9:20				CS5	5															
9:25				CS6	6															
9:30				CS7	7															
9:35				CS8	8															
9:40	6/2/23			CSW1	9															
9:45				CSW2	10															
Additional Instructions: <u>B# 21146772</u>																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.										
Relinquished by: (Signature) <u>Kerime Adame</u> Date <u>6/2/23</u> Time <u>230</u>										Received by: (Signature) <u>Michelle Gump</u> Date <u>6-2-23</u> Time <u>1430</u>										
Relinquished by: (Signature) <u>Michelle Gump</u> Date <u>6-2-23</u> Time <u>1800</u>										Received by: (Signature) <u>Michelle Gump</u> Date <u>6-2-23</u> Time <u>1800</u>										
Relinquished by: (Signature) <u>Andrew Miso</u> Date <u>6-2-23</u> Time <u>2345</u>										Received by: (Signature) <u>Andrew Miso</u> Date <u>6/3/23</u> Time <u>0015</u>										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				



## Project Information

## Chain of Custody

Page 2 of 3

Client: Pima Environmental Services Project: <u>Cobber 2322 Fed. Com3H</u> 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: <u>Devon</u> Address: City, State, Zip Phone: Email: Pima Project # <u>286</u>					Lab Use Only Lab WO# <u>E306016</u> Job Number <u>01058-0007</u> Analysis and Method DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 NM TX					TAT 1D 2D 3D Standard X				EPA Program CWA SDWA RCRA State NM CO UT AZ TX X	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	NM	TX	Remarks						
6:00	6/2/23	S	1	CSW3	11							X								
10:05				CSW4	12															
10:10				CSW5	13															
10:15				CSW6	14															
10:20				CSW7	15															
10:25				CSW8	16															
10:30				CSW9	17															
10:35				CSW10	18															
10:40				CSW11	19															
10:45				CSW12	20															
Additional Instructions: <u>B# 21146772</u>																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																				
Relinquished by: (Signature) <u>Kerime Adams</u> Date <u>6/2/23</u> Time <u>230</u> Received by: (Signature) <u>Maile Cuyler</u> Date <u>6-2-23</u> Time <u>1430</u> Relinquished by: (Signature) <u>Maile Cuyler</u> Date <u>6-2-23</u> Time <u>1800</u> Received by: (Signature) <u>Andrew M460</u> Date <u>6-2-23</u> Time <u>1800</u> Relinquished by: (Signature) <u>Andrew M460</u> Date <u>6-2-23</u> Time <u>2345</u> Received by: (Signature) <u>Andrew M460</u> Date <u>6/3/23</u> Time <u>0015</u>																				
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																				
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				





## Envirotech Analytical Laboratory

Printed: 6/5/2023 10:14:01AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	06/03/23 00:15	Work Order ID:	E306016
Phone:	(575) 631-6977	Date Logged In:	06/02/23 16:50	Logged In By:	Alexa Michaels
Email:	tom@pimaoil.com	Due Date:	06/05/23 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

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

CONDITIONS  
  
Action 226193

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 226193
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	9/12/2023