

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

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

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Incident ID	nAPP2219631614
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party SCM Operations, LLC	OGRID 330368
Contact Name Hayden Acosta	Contact Telephone 505-249-9506
Contact email Hayden.Acosta@scmid.com	Incident # (assigned by OCD) nAPP2219631614
Contact mailing address 1311 Interstate 20 West, Pecos, TX 79772	

### Location of Release Source

Latitude 32.02735 Longitude -103.27593  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Ameredev South Facility	Site Type Idle Gas Treatment Facility
Date Release Discovered 07/08/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
L	21	26S	36E	Lea

Surface Owner:  State  Federal  Tribal  Private (Name: NGL South Ranch, Inc.)

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input checked="" type="checkbox"/> Other (describe) Lube Oil	Volume/Weight Released (provide units) 275 gal / 6.55 bbl	Volume/Weight Recovered (provide units) 275 gal / 6.55 bbl

#### Cause of Release

One 275-gal HDPE tote filled with lube oil was found cracked on site. Its entire contents were released onto the ground. The cause of the crack and the time of the incident is unknown. Since the tote was full prior to the incident and is completely empty after, the spill volume was determined to be 275 gal / 6.55 bbl.

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

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Hayden Acosta</u> Title: <u>EHS Coordinator</u> Signature: <u>Hayden Acosta</u> Date: <u>07/15/2022</u> email: <u>Hayden.Acosta@scmid.com</u> Telephone: <u>505-249-9506</u>
<b><u>OCD Only</u></b> Received by: _____ Date: _____

Incident ID	nAPP2219631614
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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?	_ 250 _ (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: Hayden Acosta Title: EHS Coordinator

Signature: Hayden Acosta Date: 10/06/2022

email: Hayden.Acosta@scmid.com Telephone: 505-249-9506

**OCD Only**

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

Incident ID	nAPP2219631614
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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: Hayden Acosta Title: EHS Coordinator

Signature: Hayden Acosta Date: 10/06/2022

email: Hayden.Acosta@scmid.com Telephone: 505-249-9506

**OCD Only**

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

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

Closure Approved by: Jennifer Nobui Date: 11/18/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

<b>Location:</b>	Ameredev South Facility
<b>GPS Coordinates:</b>	32.02735, -103.27593
<b>Spill Date:</b>	7/8/2022
<b>Spill Time:</b>	Unknown

**Background:**  
 One 275-gal HDPE tote filled with lube oil was found cracked on site. Its entire contents were released onto the ground. The cause of the crack and the time of the incident is unknown. Since the tote was full prior to the incident and is completely empty after, the spill volume was determined to be 275 gal / 6.55 bbl.

<b>Length of Tote=</b>		feet
<b>Width of Tote=</b>		feet
<b>Height of Tote=</b>		inches

OR

<b>Area of Tote=</b>	-	ft <sup>2</sup>
<b>Height of Tote=</b>	-	inches

OR

<b>Tote Volume=</b>	275.00	gal
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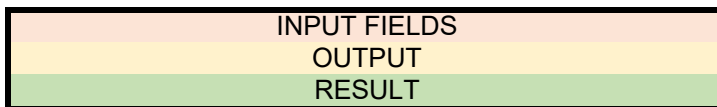
Use only one method

<b>Oil Cut=</b>	100.00	% Oil
<b>Porosity Factor=*</b>	1.00	

<b>Soil Volume=</b>	1.36	yd <sup>3</sup>
<b>Total Lube Oil in Soil=</b>	6.55	barrels
<b>Total Produced Water in Soil=</b>	-	barrels
<b>Total Product Released in Soil=</b>	6.55	barrels
	274.95	gallons

Types of Soil	Porosity Factor
Gravel	0.25
Sand	0.20
Clay/Silt/Sand Mix	0.15
Clay	0.05
Caliche	0.03
Unknown	0.25

\*Porosity Factor = 1 when estimating spill volume based on size of container / tote





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

October 5<sup>th</sup>, 2022

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

**Re: Site Assessment, Remediation, and Closure Report  
 Ameredev South Facility  
 API No. N/A  
 GPS: Latitude 32.02735 Longitude -103.27593  
 UL "L", Sec. 21, T26S, R36E  
 Lea County, NM  
 NMOCD Ref. No. NAPP2219631614**

Pima Environmental Services, LLC (Pima) has been contracted by SCM Operations, LLC to perform a spill assessment, remediation activities, and submit this closure report for an oil release that occurred at the Ameredev South Facility. The initial C-141 was submitted on July 15<sup>th</sup>, 2022 (Appendix C). This incident was assigned Incident ID NAPP2219631614, by the New Mexico Oil Conservation Division (NMOCD).

**Site Characterization**

The Ameredev South Facility is located approximately five (5) miles southwest of Bennett, NM. This spill site is in Unit L, Section 21, Township 26S, Range 36E, Latitude 32.02735, Longitude -103.27593, Lea County, NM. Figure 1 references a Location map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is Eolian and Piedmont deposits (Holocene to middle Pleistocene). The soil in this area is made up of Pyote soils and Dune land, 0 to 3 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well-drained. There is a low potential for karst geology to be present around the Ameredev South Facility (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 250 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 176.95 feet BGS. The closest waterway is an unnamed salt playa located approximately 1.5 miles to the northeast 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' (No GW Data)	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg
51-100'	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
>100'	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg

Reference Figure 2 for a Topographic map.

**Release Information**

**nAPP2218767546:** On July 7, 2022, a release of lube oil was discovered at the Ameredev South Facility site due to a crack in the HDPE tote containing the liquid. Initial response activities were conducted by SCM and included source elimination and containment activities. The release was reported to the New Mexico Oil Conservation District (NMOCD) on July 15, 2022.

### Site Assessment and Soil Sampling Results

On July 13<sup>th</sup>, 2022, Lighthouse Environmental Services, Inc. (Lighthouse) mobilized personnel to the site to assess the area and conduct initial remediation activities. During excavation, Lighthouse collected 6 samples to a depth up to 10 inches bgs. Figure 4 shows the extent of the release area and sample locations.

On September 3<sup>rd</sup>, 2022, Pima Environmental mobilized personnel to conduct further remediation activities. Pima collected additional samples in areas overlapping samples BH2-BH6 down to one (1) foot bgs. Pima also collected five (5) sidewall samples SW1-SW5, and two (2) background samples BG-1 and BG-2. Laboratory results of this sampling event can be found in the following data table.

Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')									
SCM OPERATIONS, LLC - AMEREDEV SOUTH FACILITY									
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
BH-1	7/21/2022	6-10"	ND	ND	ND	ND	ND	ND	10.1
BH 2	7/21/2022	6-10"	ND	ND	49.9	208	2230	2490	ND
	9/23/2022	1'	ND	ND	ND	ND	ND	ND	ND
BH 3	7/21/2022	6-10"	ND	ND	ND	122	702	824	9.76
	9/23/2022	1'	ND	ND	ND	ND	ND	ND	ND
BH 4	7/21/2022	6-10"	ND	ND	ND	55	735	790	ND
	9/23/2022	1'	ND	ND	ND	ND	ND	ND	ND
BH 5	7/21/2022	6-10"	ND	ND	ND	ND	556	556	ND
	9/23/2022	1'	ND	ND	ND	ND	ND	ND	ND
BH 6	7/21/2022	6-10"	ND	ND	ND	ND	386	386	ND
	9/23/2022	1'	ND	ND	ND	ND	ND	ND	ND
SW 1	9/23/2022	6-10"	ND	ND	ND	ND	ND	ND	ND
SW 2	9/23/2022	6-10"	ND	ND	ND	ND	ND	ND	ND
SW 3	9/23/2022	6-10"	ND	ND	ND	ND	ND	ND	ND
SW 4	9/23/2022	6-10"	ND	ND	ND	ND	ND	ND	ND
SW 5	9/23/2022	6-10"	ND	ND	ND	ND	ND	ND	ND
BG 1	9/23/2022	6-10"	ND	ND	ND	ND	ND	ND	ND
BG 2	9/23/2022	6-10"	ND	ND	ND	ND	ND	ND	ND

ND: Non-Detect

### Remediation Activities

On September 28<sup>th</sup>, 2022, Pima mobilized personnel and equipment to conduct remedial activities. Pima excavated the area overlapping soil samples (BH1-BH6) and (SW1-SW5) to a depth of one (1) foot bgs. Photographic documentation can be found in Appendix D.

On September 29<sup>th</sup>, 2021, after submitting a 48-hour notification (Appendix C), Pima returned to the site to collect confirmation samples. The laboratory results of this sampling event can be found in the following data table.



## 9-29-22 Confirmation Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')									
SCM OPERATIONS, LLC - AMEREDEV SOUTH FACILITY									
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	9/29/2022	1'	ND	ND	ND	ND	ND	ND	ND
CS 2	9/29/2022	1'	ND	ND	ND	ND	ND	ND	ND
CS 3	9/29/2022	1'	ND	ND	ND	ND	ND	ND	ND
CS 4	9/29/2022	1'	ND	ND	ND	ND	ND	ND	ND
CS 5	9/29/2022	1'	ND	ND	ND	ND	ND	ND	ND
CS 6	9/29/2022	1'	ND	ND	ND	ND	ND	ND	ND
CSW 1	9/29/2022	1'	ND	ND	ND	ND	ND	ND	ND
CSW 2	9/29/2022	1'	ND	ND	ND	ND	ND	ND	ND
CSW 3	9/29/2022	1'	ND	ND	ND	ND	ND	ND	ND
CSW 4	9/29/2022	1'	ND	ND	ND	ND	ND	ND	ND
CSW 5	9/29/2022	1'	ND	ND	ND	ND	ND	ND	ND

ND- Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

### Closure Request

After careful review, Pima requests that this incident, NAPP2219631614, be closed. SCM Operations, LLC has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

Should you have any questions or need additional information, please feel free to contact Sebastian Orozco at 619-721-4813 or [Sebastian@pimaoil.com](mailto:Sebastian@pimaoil.com).

Respectfully,

*Sebastian Orozco*

Sebastian Orozco  
Environmental Project Manager  
Pima Environmental Services, LLC

### Attachments

Figures:

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

Appendices:

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



Pima Environmental Services

**Figures:**

1-Location Map

2-Topo Map

3-Karst Map


4-Site Map

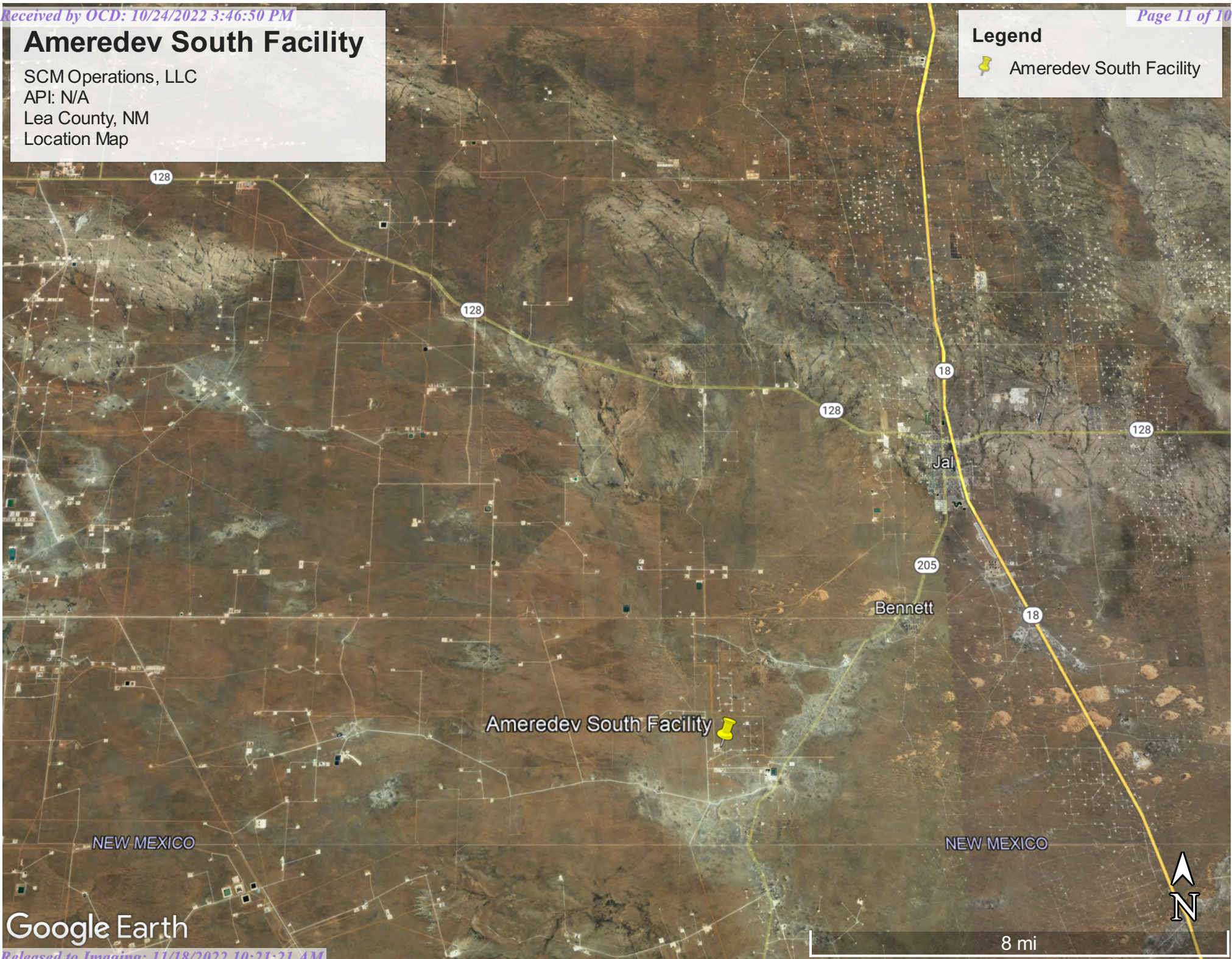
5-Confirmation Site Map

# Ameredeve South Facility

SCM Operations, LLC  
API: N/A  
Lea County, NM  
Location Map

## Legend

 Ameredeve South Facility



NEW MEXICO

NEW MEXICO


Google Earth

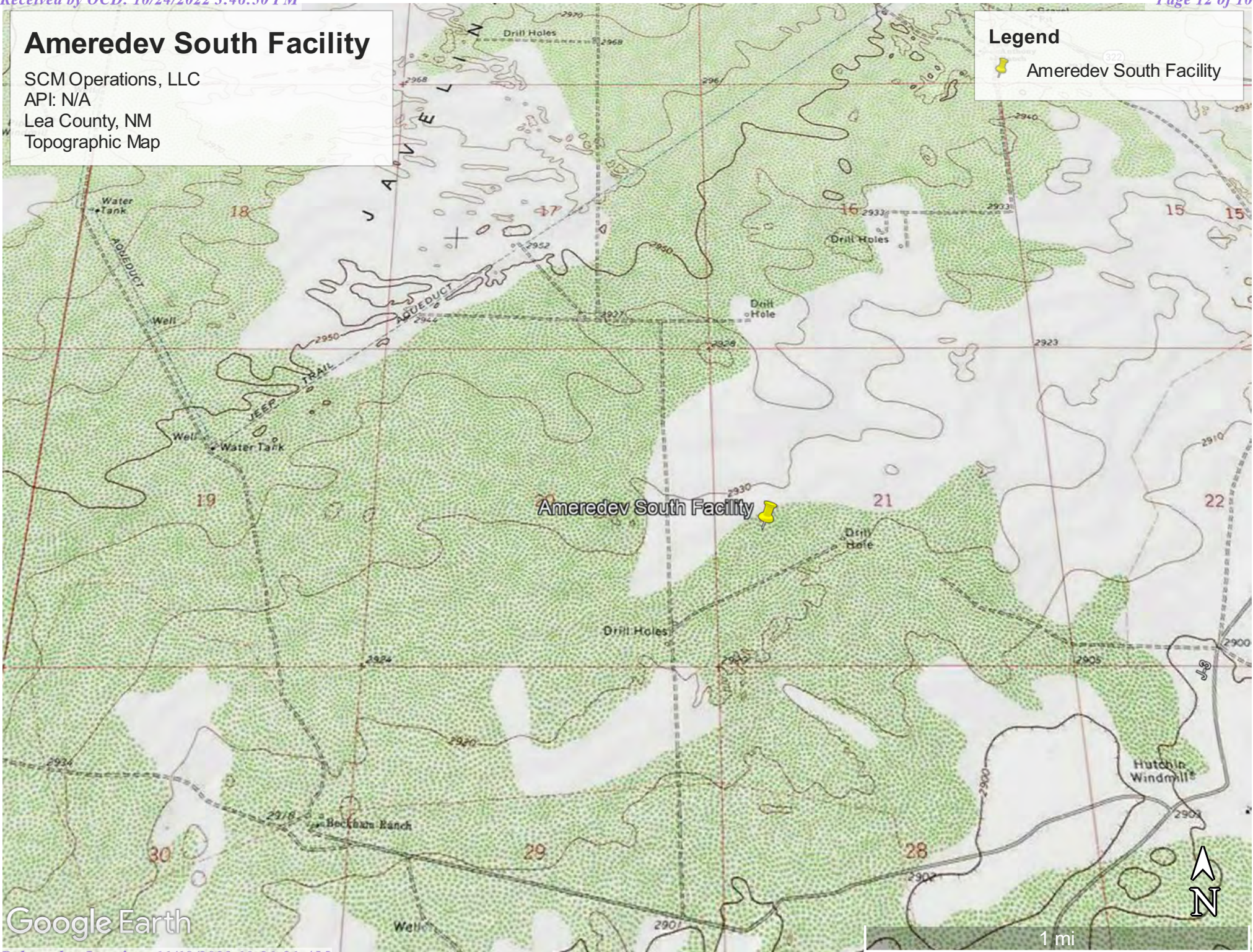
8 mi

# Ameredeve South Facility

SCM Operations, LLC  
API: N/A  
Lea County, NM  
Topographic Map

**Legend**

-  Ameredeve South Facility







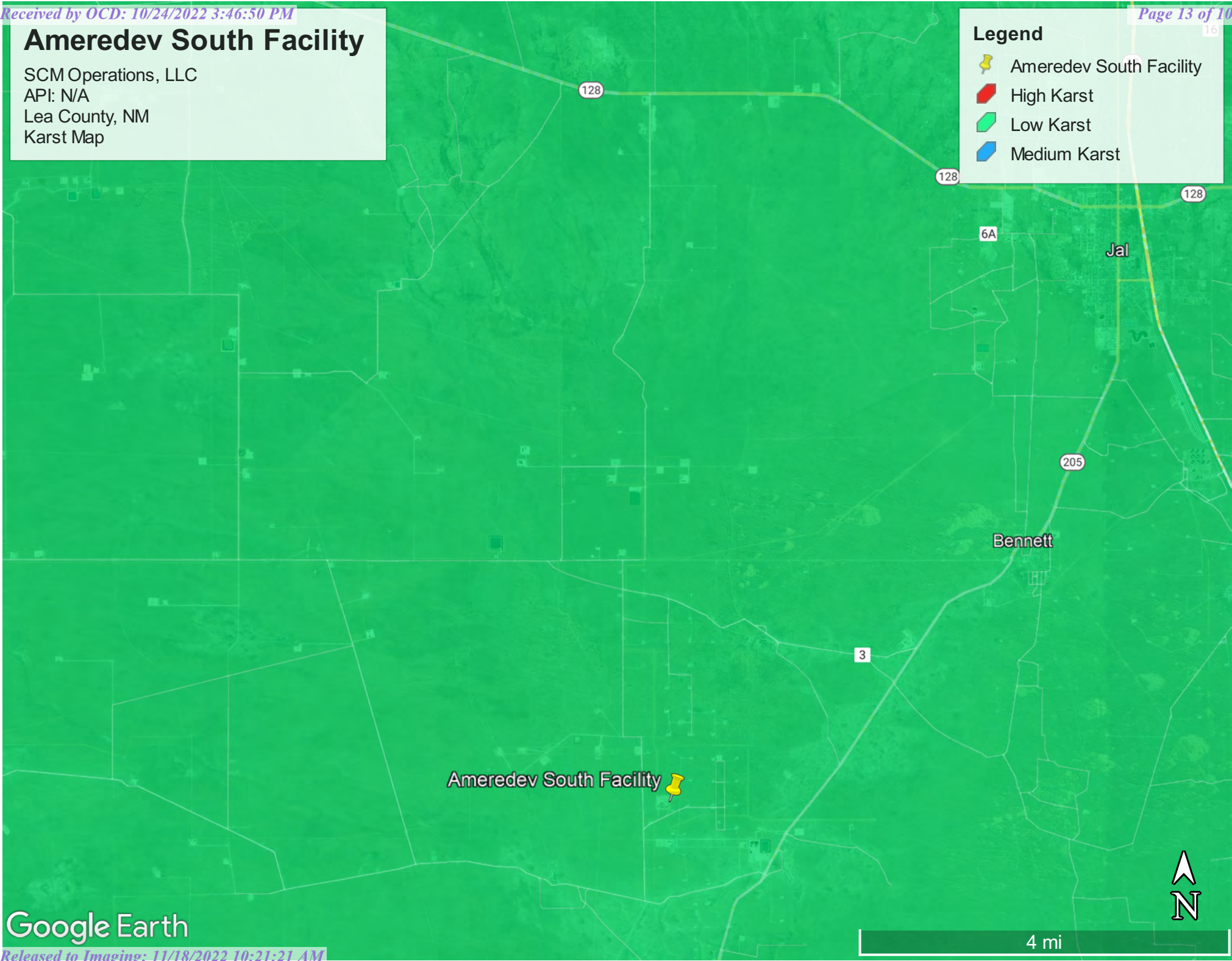
Google Earth

# Ameredev South Facility

SCM Operations, LLC  
API: N/A  
Lea County, NM  
Karst Map

**Legend**

-  Ameredev South Facility
-  High Karst
-  Low Karst
-  Medium Karst



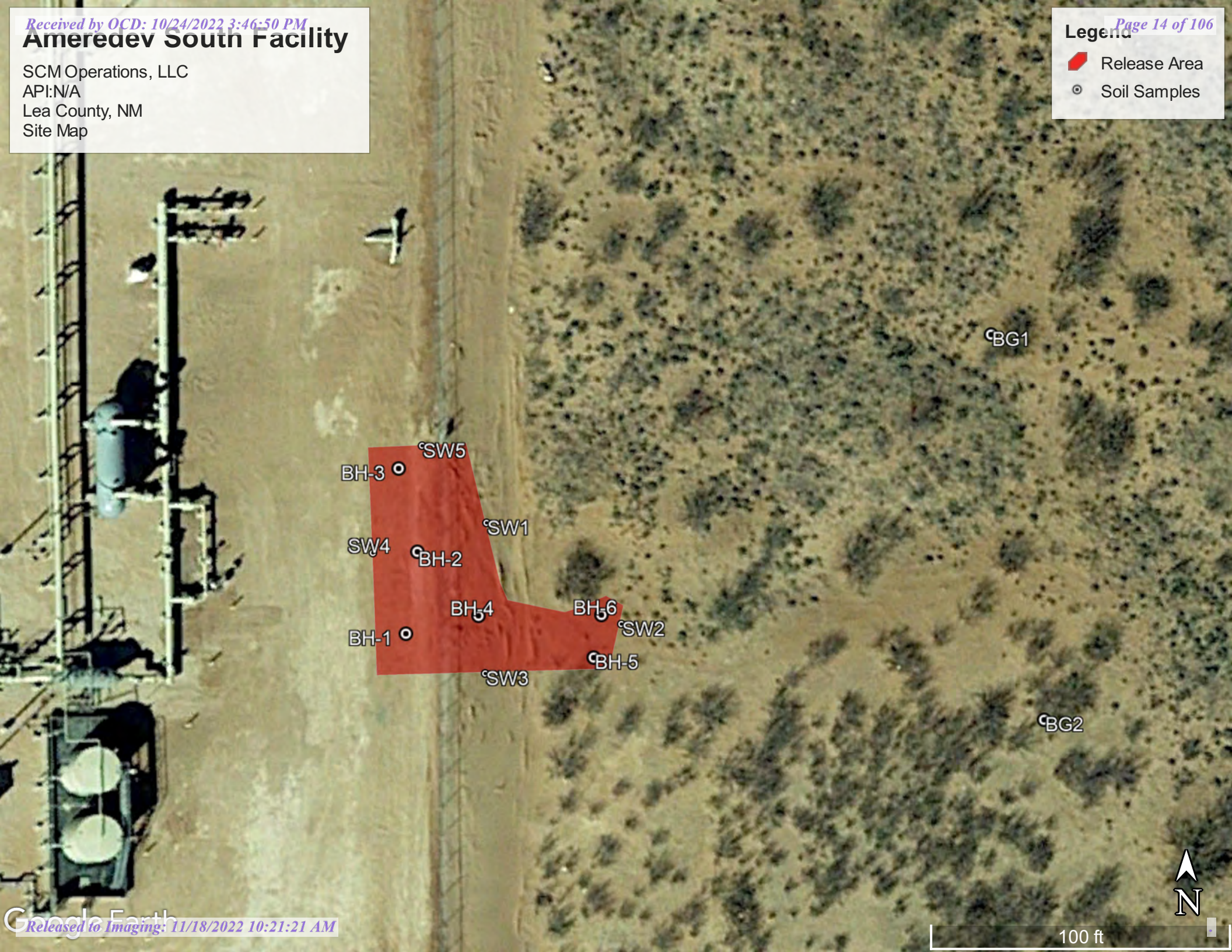
# Ameredeve South Facility

SCM Operations, LLC  
API: N/A  
Lea County, NM  
Site Map

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**Legend**

- Release Area
- Soil Samples



BH-3 °SW5  
SW4 °BH-2 °SW1  
BH-1 °BH-4 BH-6 °SW2  
°SW3 °BH-5

°BG1

°BG2



100 ft

# Ameredeve South Facility

SCM Operations, LLC  
API:N/A  
Lea County, NM  
Confirmation Map

## Legend

- Confirmation Samples
- Excavated Area



°CSW5  
°CS3  
CSW4 °CS2 CSW1  
°CS1 °CS4 °CS5 CS6 °CSW2  
°CSW3





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	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">J_00025 POD2</a>	J	LE	3 4 4	21	26S	36E	663984	3544155	1322	800					
<a href="#">J_00047 POD1</a>	J	LE	4 4 3	19	26S	36E	660797	3544917	2019						
<a href="#">J_00034 POD1</a>	J	LE	2 4 2	30	26S	36E	660869	3543643	2243	506	250	256			
<a href="#">J_00035 POD1</a>	J	LE	2 4 2	30	26S	36E	660923	3543521	2261	506	250	256			
<a href="#">J_00004 POD1</a>	J	LE	4 1 3	29	26S	36E	661366	3542970	2304	510	510	0			
<a href="#">J_00026 POD1</a>	J	LE	1 2 2	30	26S	36E	660612	3543961	2341	571	285	286			
<a href="#">J_00033 POD1</a>	J	LE	2 4 2	30	26S	36E	660767	3543426	2443	551	250	301			
<a href="#">J_00001 POD4</a>	J	LE	1 3 2	19	26S	36E	660244	3545180*	2600	640	250	390			
<a href="#">J_00001 X</a>	J	LE	1 3 2	19	26S	36E	660244	3545180*	2600	640	250	390			
<a href="#">J_00003 POD2</a>	J	LE	1 1 2	30	26S	36E	660265	3543972	2666		99				
<a href="#">J_00043 POD1</a>	J	LE	1 1 2	19	26S	36E	660221	3545607	2723						
<a href="#">J_00001 POD5</a>	J	LE	2 4 1	19	26S	36E	660099	3545187	2744		260				
<a href="#">J_00011 S3</a>	J	LE	2 3 3	09	26S	36E	662746	3547677	2912	546	135	411			
<a href="#">J_00011 S2</a>	J	LE	2 3 4	08	26S	36E	661943	3547557	2922	835	209	626			
<a href="#">J_00008 POD1</a>	J	LE	3 3 3	10	26S	36E	664154	3547420	2974	175					
<a href="#">J_00009 POD1</a>	J	LE	4 4	09	26S	36E	663924	3547554*	3002	175					
<a href="#">J_00002 X2</a>	J	LE	4 3	18	26S	36E	659929	3545879*	3089	650	214	436			
<a href="#">C_03874 POD1</a>	CUB	LE	2 2 3	30	26S	36E	660141	3543200	3094	575	250	325			
<a href="#">J_00011 S4</a>	J	LE	4 2 3	09	26S	36E	663113	3547942	3191	550	137	413			
<a href="#">J_00011</a>	J	LE	3 1 4	08	26S	36E	661805	3547823*	3218	563					
<a href="#">J_00045 POD1</a>	J	LE	4 3 3	18	26S	36E	659712	3545848	3282	730	270	460			
<a href="#">J_00002 X3</a>	J	LE	3 1	19	26S	36E	659536	3545067*	3288	710	216	494			
<a href="#">J_00011 S</a>	J	LE	2 1 4	08	26S	36E	662005	3548023*	3355	757	225	532			
<a href="#">J_00041 POD1</a>	J	LE	1 1 1	19	26N	36E	659404	3545621	3512		270				
<a href="#">J_00042 POD1</a>	J	LE	3 1 3	18	26S	36E	659507	3546134	3576	710	270	440			
<a href="#">J_00001</a>	R	J	1 1 3	18	26S	36E	659416	3546374*	3756	550	253	297			
<a href="#">J_00001 POD3</a>	J	LE	1 1 3	18	26S	36E	659416	3546374*	3756	550	253	297			
<a href="#">J_00005 POD1</a>	J	LE	2 2 2	13	26S	35E	659200	3547174*	4340	601	230	371			
<a href="#">C_03795 POD1</a>	C	LE	4 4 3	24	26S	35E	658419	3544221	4425	496	250	246			
<a href="#">CP 01285 POD1</a>	CP	LE	4 3 3	05	26S	36E	661070	3548991	4569	511	250	261			
<a href="#">CP 01351 POD1</a>	CP	LE	4 4 4	06	26S	36E	660855	3549021	4683	600	267	333			

Average Depth to Water: **244 feet**

Minimum Depth: **99 feet**

Maximum Depth: 510 feet

-----  
**Record Count:** 31

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 662810.96

**Northing (Y):** 3544765.95

**Radius:** 5000

\*UTM location was derived from PLSS - see Help

---

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

---

9/27/22 8:02 AM

WATER COLUMN/ AVERAGE DEPTH TO  
WATER



USGS Home  
Contact USGS  
Search USGS

## National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- 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 =

- 362714103071201

Minimum number of levels = 1

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

### USGS 362714103071201 26S.36E.29.314412 J-4

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°00'41.38", Longitude 103°17'31.10" NAD83

Land-surface elevation 2,916.00 feet above NGVD29

The depth of the well is 604 feet below land surface.

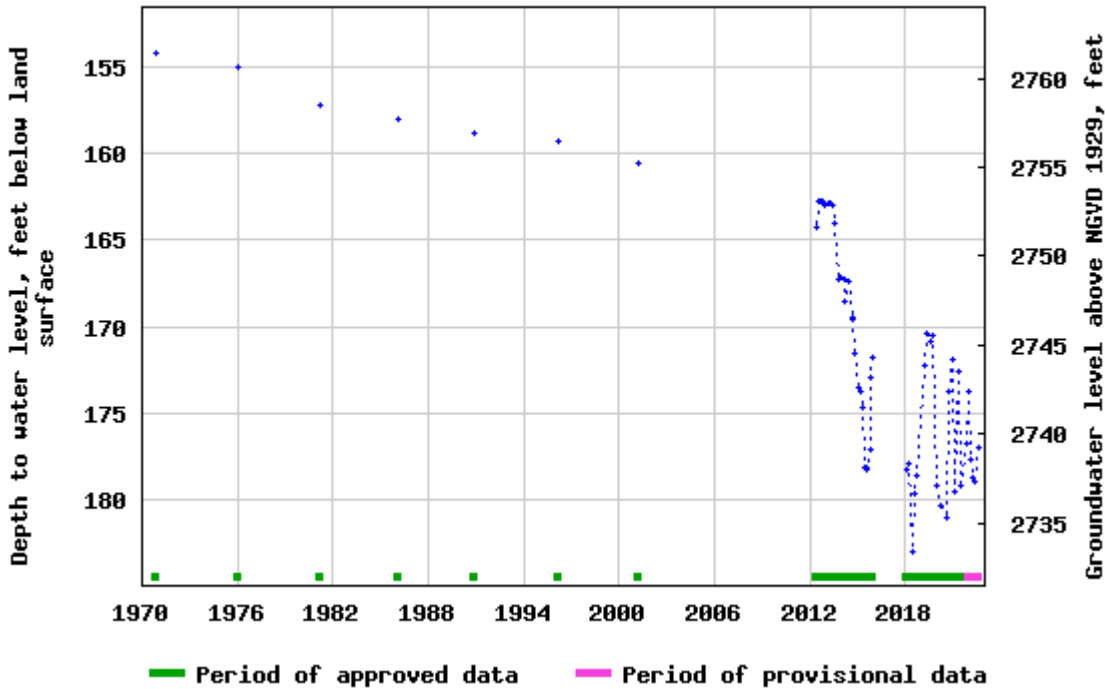
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

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

#### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

USGS 362714103071201 26S.36E.29.314412 J-4



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

- [Questions about sites/data?](#)
- [Feedback on this web site](#)
- [Automated retrievals](#)
- [Help](#)
- [Data Tips](#)
- [Explanation of terms](#)
- [Subscribe for system changes](#)
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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

**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: 2022-09-27 10:03:53 EDT

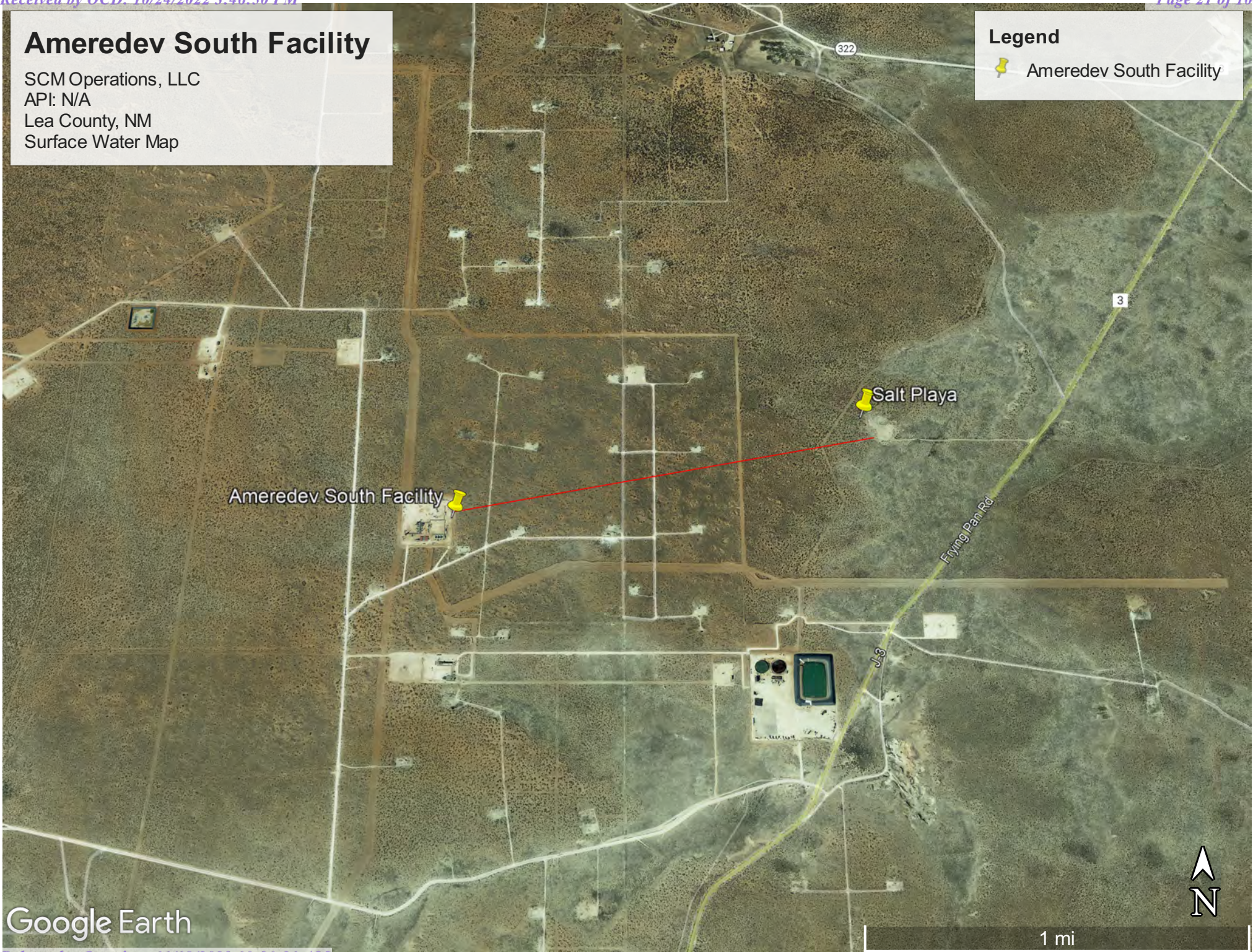
0.66 0.53 nadww02

# Ameredev South Facility

SCM Operations, LLC  
API: N/A  
Lea County, NM  
Surface Water Map

## Legend

 Ameredev South Facility



Google Earth



Pima Environmental Services

**Appendix B**

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

Map Unit Description: Pyote soils and Dune land---Lea County, New Mexico

---

## Lea County, New Mexico

### PY—Pyote soils and Dune land

#### Map Unit Setting

*National map unit symbol:* dmqr  
*Elevation:* 3,000 to 4,400 feet  
*Mean annual precipitation:* 10 to 15 inches  
*Mean annual air temperature:* 60 to 64 degrees F  
*Frost-free period:* 190 to 220 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Pyote and similar soils:* 46 percent  
*Dune land:* 44 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Pyote

##### Setting

*Landform:* Depressions  
*Landform position (two-dimensional):* Footslope  
*Landform position (three-dimensional):* Base slope  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*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)

Map Unit Description: Pyote soils and Dune land---Lea County, New Mexico

---

### Interpretive groups

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

### Description of Dune Land

#### Setting

*Landform:* Dunes  
*Landform position (two-dimensional):* Backslope, shoulder  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Linear, convex  
*Across-slope shape:* Convex  
*Parent material:* Sandy eolian deposits derived from sedimentary rock

#### Typical profile

*A - 0 to 6 inches:* fine sand  
*C - 6 to 60 inches:* fine sand

### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 8  
*Hydrologic Soil Group:* A  
*Hydric soil rating:* No

### Minor Components

#### Kermit

*Percent of map unit:* 5 percent  
*Ecological site:* R070BC022NM - Sandhills  
*Hydric soil rating:* No

#### Maljamar, fine sand

*Percent of map unit:* 3 percent  
*Ecological site:* R070BD003NM - Loamy Sand  
*Hydric soil rating:* No

#### Wink

*Percent of map unit:* 2 percent  
*Ecological site:* R070BD003NM - Loamy Sand  
*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°16'52"W 32°1'54"N



## Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		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 <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs

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 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary

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 **10/5/2022 at 1:23 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



October 5, 2022

### Wetlands

- |   |                                |   |                                   |   |          |
|---|--------------------------------|---|-----------------------------------|---|----------|
|  | Estuarine and Marine Deepwater |  | Freshwater Emergent Wetland       |  | Lake     |
|  | Estuarine and Marine Wetland   |  | Freshwater Forested/Shrub Wetland |  | Other    |
|   |                                |  | Freshwater Pond                   |  | 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**

48-Hour Notification

Extension Request

**Sebastian@pimaoil.com**

---

**From:** sebastian@pimaoil.com  
**Sent:** Tuesday, September 27, 2022 9:53 AM  
**To:** ocdonline@state.nm.us  
**Cc:** 'Acosta, Hayden'; tom@pimaoil.com  
**Subject:** Ameredev South Facility (NAPP2219631614)

All,

Pima Environmental would like to notify you that we will begin collecting confirmation samples at the Ameredev South Facility for incident NAPP2219631614. Pima personnel are scheduled to be on site for this sampling event at approximately 8:00 a.m. on Thursday, September 29<sup>th</sup>, 2022, if you have any questions or concerns, please feel free to reach out. Thank you.

Respectfully,  
Sebastian Orozco  
Environmental Professional  
5614 N Lovington Hwy,  
Hobbs, NM 88240  
[Sebastian@pimaoil.com](mailto:Sebastian@pimaoil.com)  
619-721-4813 cell



Pima Environmental Services, LLC

## Acosta, Hayden

---

**From:** Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>  
**Sent:** Monday, October 3, 2022 10:53 AM  
**To:** Acosta, Hayden  
**Cc:** Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD  
**Subject:** FW: [EXTERNAL] Extension Request - nAPP2219631614

**Follow Up Flag:** Follow up  
**Flag Status:** Completed

Hayden

OCD approves your request for a 30-day extension. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,  
Jennifer Nobui

---

**From:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Sent:** Monday, October 3, 2022 8:15 AM  
**To:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>  
**Subject:** Fw: [EXTERNAL] Extension Request - nAPP2219631614

---

**From:** Acosta, Hayden <[hayden.acosta@scmid.com](mailto:hayden.acosta@scmid.com)>  
**Sent:** Sunday, October 2, 2022 2:06 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Subject:** [EXTERNAL] Extension Request - nAPP2219631614

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom It May Concern,

SCM Operations, LLC would like to request a 30-day extension for the Ameredev South Facility incident (nAPP2219631614) due to some issues with contractor scheduling. Please let us know if you have any questions or concerns. Thank you for your time.

Kind Regards,



**SALT  
CREEK  
MIDSTREAM**

**Hayden Acosta**

EHS Coordinator

[O: \(281\) 949-8794](tel:(281)949-8794) | [C: \(505\) 249-9506](tel:(505)249-9506) | [Hayden.Acosta@scmid.com](mailto:Hayden.Acosta@scmid.com)

1311 I-20 West, Pecos, TX. 79772



Pima Environmental Services

**Appendix D**

Photographic Documentation



**SITE PHOTOGRAPHS  
SCM OPERATIONS, LLC  
AMEREDEV SOUTH FACILITY**

Pre-Treatment





### Remediation and Post Excavation







Pima Environmental Services

## **Appendix E**

Laboratory Reports



Environment Testing  
America

## ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-17301-1  
Laboratory Sample Delivery Group: 32.028185, -103.2781139  
Client Project/Site: Salt Creek Ameredev tote spill 2202-5074

For:  
Lighthouse Environmental Services, Inc  
4218 Pasadena Blvd  
Pasadena, Texas 77503

Attn: Simon Hudgens

Authorized for release by:  
7/29/2022 3:00:06 PM

Holly Taylor, Project Manager  
(806)794-1296  
[Holly.Taylor@et.eurofinsus.com](mailto:Holly.Taylor@et.eurofinsus.com)

### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client: Lighthouse Environmental Services, Inc  
Project/Site: Salt Creek Ameredev tote spill 2202-5074

Laboratory Job ID: 880-17301-1  
SDG: 32.028185, -103.2781139

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## Definitions/Glossary

Client: Lighthouse Environmental Services, Inc  
 Project/Site: Salt Creek Ameredev tote spill 2202-5074

Job ID: 880-17301-1  
 SDG: 32.028185, -103.2781139

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

## Case Narrative

Client: Lighthouse Environmental Services, Inc  
Project/Site: Salt Creek Ameredev tote spill 2202-5074

Job ID: 880-17301-1  
SDG: 32.028185, -103.2781139

### Job ID: 880-17301-1

### Laboratory: Eurofins Midland

#### Narrative

#### Job Narrative 880-17301-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 7/22/2022 4:55 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3° C.

#### GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-30750 recovered above the upper control limit for Benzene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-30680 and analytical batch 880-30750 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-30680 and analytical batch 880-30750 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-17267-A-1-F). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH-5 (880-17301-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC Semi VOA

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-30743/3). Evidence of matrix interferences is not obvious.

Method 8015B NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-30765 and analytical batch 880-30743 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-30743/19). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-30601 and analytical batch 880-30721 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Client Sample Results

Client: Lighthouse Environmental Services, Inc  
Project/Site: Salt Creek Ameredev tote spill 2202-5074Job ID: 880-17301-1  
SDG: 32.028185, -103.2781139

Client Sample ID: BH-1

Lab Sample ID: 880-17301-1

Date Collected: 07/21/22 12:05

Matrix: Solid

Date Received: 07/22/22 16:55

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/26/22 11:07	07/27/22 20:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/26/22 11:07	07/27/22 20:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/26/22 11:07	07/27/22 20:31	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		07/26/22 11:07	07/27/22 20:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/26/22 11:07	07/27/22 20:31	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/26/22 11:07	07/27/22 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	07/26/22 11:07	07/27/22 20:31	1
1,4-Difluorobenzene (Surr)	112		70 - 130	07/26/22 11:07	07/27/22 20:31	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			07/28/22 10:37	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			07/27/22 15:34	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/27/22 08:40	07/27/22 10:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		07/27/22 08:40	07/27/22 10:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/27/22 08:40	07/27/22 10:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	82		70 - 130	07/27/22 08:40	07/27/22 10:52	1
o-Terphenyl (Surr)	89		70 - 130	07/27/22 08:40	07/27/22 10:52	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.1		4.97	mg/Kg			07/27/22 13:01	1

Client Sample ID: BH-2

Lab Sample ID: 880-17301-2

Date Collected: 07/21/22 12:10

Matrix: Solid

Date Received: 07/22/22 16:55

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/26/22 11:07	07/27/22 20:57	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/26/22 11:07	07/27/22 20:57	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/26/22 11:07	07/27/22 20:57	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		07/26/22 11:07	07/27/22 20:57	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/26/22 11:07	07/27/22 20:57	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/26/22 11:07	07/27/22 20:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	07/26/22 11:07	07/27/22 20:57	1
1,4-Difluorobenzene (Surr)	105		70 - 130	07/26/22 11:07	07/27/22 20:57	1

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## Client Sample Results

Client: Lighthouse Environmental Services, Inc  
 Project/Site: Salt Creek Ameredev tote spill 2202-5074

Job ID: 880-17301-1  
 SDG: 32.028185, -103.2781139

Client Sample ID: BH-2

Lab Sample ID: 880-17301-2

Date Collected: 07/21/22 12:10

Matrix: Solid

Date Received: 07/22/22 16:55

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/28/22 10:37	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2490		49.9	mg/Kg			07/27/22 15:34	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	49.9		49.9	mg/Kg		07/27/22 08:40	07/27/22 14:01	1
Diesel Range Organics (Over C10-C28)	208	*1	49.9	mg/Kg		07/27/22 08:40	07/27/22 14:01	1
Oil Range Organics (Over C28-C36)	2230		49.9	mg/Kg		07/27/22 08:40	07/27/22 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130	07/27/22 08:40	07/27/22 14:01	1
o-Terphenyl (Surr)	84		70 - 130	07/27/22 08:40	07/27/22 14:01	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97	mg/Kg			07/27/22 13:09	1

Client Sample ID: BH-3

Lab Sample ID: 880-17301-3

Date Collected: 07/21/22 12:15

Matrix: Solid

Date Received: 07/22/22 16:55

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/26/22 11:07	07/27/22 21:23	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/26/22 11:07	07/27/22 21:23	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/26/22 11:07	07/27/22 21:23	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		07/26/22 11:07	07/27/22 21:23	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/26/22 11:07	07/27/22 21:23	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/26/22 11:07	07/27/22 21:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	07/26/22 11:07	07/27/22 21:23	1
1,4-Difluorobenzene (Surr)	114		70 - 130	07/26/22 11:07	07/27/22 21:23	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/28/22 10:37	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	824		50.0	mg/Kg			07/27/22 15:34	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/27/22 08:40	07/27/22 13:40	1

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## Client Sample Results

Client: Lighthouse Environmental Services, Inc  
 Project/Site: Salt Creek Ameredev tote spill 2202-5074

Job ID: 880-17301-1  
 SDG: 32.028185, -103.2781139

## Client Sample ID: BH-3

## Lab Sample ID: 880-17301-3

Date Collected: 07/21/22 12:15

Matrix: Solid

Date Received: 07/22/22 16:55

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	122	*1	50.0	mg/Kg		07/27/22 08:40	07/27/22 13:40	1
Oil Range Organics (Over C28-C36)	702		50.0	mg/Kg		07/27/22 08:40	07/27/22 13:40	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane (Surr)	95		70 - 130			07/27/22 08:40	07/27/22 13:40	1
o-Terphenyl (Surr)	100		70 - 130			07/27/22 08:40	07/27/22 13:40	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.76	F1	5.00	mg/Kg			07/27/22 13:17	1

## Client Sample ID: BH-4

## Lab Sample ID: 880-17301-4

Date Collected: 07/21/22 12:20

Matrix: Solid

Date Received: 07/22/22 16:55

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/26/22 11:07	07/27/22 21:49	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/26/22 11:07	07/27/22 21:49	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/26/22 11:07	07/27/22 21:49	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		07/26/22 11:07	07/27/22 21:49	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/26/22 11:07	07/27/22 21:49	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		07/26/22 11:07	07/27/22 21:49	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	103		70 - 130			07/26/22 11:07	07/27/22 21:49	1
1,4-Difluorobenzene (Surr)	91		70 - 130			07/26/22 11:07	07/27/22 21:49	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			07/28/22 10:37	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	790		50.0	mg/Kg			07/27/22 15:34	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/27/22 08:40	07/27/22 15:05	1
Diesel Range Organics (Over C10-C28)	55.0	*1	50.0	mg/Kg		07/27/22 08:40	07/27/22 15:05	1
Oil Range Organics (Over C28-C36)	735		50.0	mg/Kg		07/27/22 08:40	07/27/22 15:05	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane (Surr)	83		70 - 130			07/27/22 08:40	07/27/22 15:05	1
o-Terphenyl (Surr)	77		70 - 130			07/27/22 08:40	07/27/22 15:05	1

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## Client Sample Results

Client: Lighthouse Environmental Services, Inc  
 Project/Site: Salt Creek Ameredev tote spill 2202-5074

Job ID: 880-17301-1  
 SDG: 32.028185, -103.2781139

Client Sample ID: BH-4

Lab Sample ID: 880-17301-4

Date Collected: 07/21/22 12:20

Matrix: Solid

Date Received: 07/22/22 16:55

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04	mg/Kg			07/27/22 13:41	1

Client Sample ID: BH-5

Lab Sample ID: 880-17301-5

Date Collected: 07/21/22 12:25

Matrix: Solid

Date Received: 07/22/22 16:55

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/26/22 11:07	07/27/22 23:36	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/26/22 11:07	07/27/22 23:36	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/26/22 11:07	07/27/22 23:36	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		07/26/22 11:07	07/27/22 23:36	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/26/22 11:07	07/27/22 23:36	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/26/22 11:07	07/27/22 23:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	07/26/22 11:07	07/27/22 23:36	1
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130	07/26/22 11:07	07/27/22 23:36	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/28/22 10:37	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	556		49.9	mg/Kg			07/27/22 15:34	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/27/22 08:40	07/27/22 15:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		07/27/22 08:40	07/27/22 15:25	1
Oil Range Organics (Over C28-C36)	556		49.9	mg/Kg		07/27/22 08:40	07/27/22 15:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130	07/27/22 08:40	07/27/22 15:25	1
o-Terphenyl (Surr)	81		70 - 130	07/27/22 08:40	07/27/22 15:25	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.02	U	5.02	mg/Kg			07/27/22 13:48	1

Client Sample ID: BH-6

Lab Sample ID: 880-17301-6

Date Collected: 07/21/22 12:30

Matrix: Solid

Date Received: 07/22/22 16:55

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/26/22 11:07	07/28/22 00:01	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/26/22 11:07	07/28/22 00:01	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/26/22 11:07	07/28/22 00:01	1

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## Client Sample Results

Client: Lighthouse Environmental Services, Inc  
 Project/Site: Salt Creek Ameredev tote spill 2202-5074

Job ID: 880-17301-1  
 SDG: 32.028185, -103.2781139

Client Sample ID: BH-6

Lab Sample ID: 880-17301-6

Date Collected: 07/21/22 12:30

Matrix: Solid

Date Received: 07/22/22 16:55

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		07/26/22 11:07	07/28/22 00:01	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/26/22 11:07	07/28/22 00:01	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/26/22 11:07	07/28/22 00:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			07/26/22 11:07	07/28/22 00:01	1
1,4-Difluorobenzene (Surr)	126		70 - 130			07/26/22 11:07	07/28/22 00:01	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			07/28/22 10:37	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	386		49.9	mg/Kg			07/27/22 15:34	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/27/22 08:40	07/27/22 15:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		07/27/22 08:40	07/27/22 15:46	1
Oil Range Organics (Over C28-C36)	386		49.9	mg/Kg		07/27/22 08:40	07/27/22 15:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130			07/27/22 08:40	07/27/22 15:46	1
o-Terphenyl (Surr)	85		70 - 130			07/27/22 08:40	07/27/22 15:46	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U	4.96	mg/Kg			07/27/22 14:23	1

## Surrogate Summary

Client: Lighthouse Environmental Services, Inc  
 Project/Site: Salt Creek Ameredev tote spill 2202-5074

Job ID: 880-17301-1  
 SDG: 32.028185, -103.2781139

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-17301-1	BH-1	101	112
880-17301-2	BH-2	109	105
880-17301-3	BH-3	96	114
880-17301-4	BH-4	103	91
880-17301-5	BH-5	112	66 S1-
880-17301-6	BH-6	93	126
LCS 880-30680/1-A	Lab Control Sample	106	119
LCSD 880-30680/2-A	Lab Control Sample Dup	111	106
MB 880-30680/5-A	Method Blank	79	66 S1-

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-17301-1	BH-1	82	89
880-17301-1 MS	BH-1	99	88
880-17301-1 MSD	BH-1	99	89
880-17301-2	BH-2	90	84
880-17301-3	BH-3	95	100
880-17301-4	BH-4	83	77
880-17301-5	BH-5	88	81
880-17301-6	BH-6	90	85
LCS 880-30765/2-A	Lab Control Sample	89	82
LCSD 880-30765/3-A	Lab Control Sample Dup	107	108
MB 880-30765/1-A	Method Blank	82	83

## Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

## QC Sample Results

Client: Lighthouse Environmental Services, Inc  
 Project/Site: Salt Creek Ameredev tote spill 2202-5074

Job ID: 880-17301-1  
 SDG: 32.028185, -103.2781139

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-30680/5-A

Matrix: Solid

Analysis Batch: 30750

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 30680

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/26/22 11:07	07/27/22 17:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/26/22 11:07	07/27/22 17:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/26/22 11:07	07/27/22 17:26	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		07/26/22 11:07	07/27/22 17:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/26/22 11:07	07/27/22 17:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/26/22 11:07	07/27/22 17:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	07/26/22 11:07	07/27/22 17:26	1
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130	07/26/22 11:07	07/27/22 17:26	1

Lab Sample ID: LCS 880-30680/1-A

Matrix: Solid

Analysis Batch: 30750

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1169		mg/Kg		117	70 - 130
Toluene	0.100	0.1028		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1066		mg/Kg		107	70 - 130
m,p-Xylenes	0.200	0.2146		mg/Kg		107	70 - 130
o-Xylene	0.100	0.1242		mg/Kg		124	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	119		70 - 130

Lab Sample ID: LCSD 880-30680/2-A

Matrix: Solid

Analysis Batch: 30750

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 30680

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1097		mg/Kg		110	70 - 130	6	35
Toluene	0.100	0.09966		mg/Kg		100	70 - 130	3	35
Ethylbenzene	0.100	0.09893		mg/Kg		99	70 - 130	7	35
m,p-Xylenes	0.200	0.2001		mg/Kg		100	70 - 130	7	35
o-Xylene	0.100	0.1182		mg/Kg		118	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

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### QC Sample Results

Client: Lighthouse Environmental Services, Inc  
 Project/Site: Salt Creek Ameredev tote spill 2202-5074

Job ID: 880-17301-1  
 SDG: 32.028185, -103.2781139

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-30765/1-A  
 Matrix: Solid  
 Analysis Batch: 30743

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 30765

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/27/22 08:40	07/27/22 09:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/27/22 08:40	07/27/22 09:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/27/22 08:40	07/27/22 09:41	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane (Surr)	82		70 - 130	07/27/22 08:40	07/27/22 09:41	1
o-Terphenyl (Surr)	83		70 - 130	07/27/22 08:40	07/27/22 09:41	1

Lab Sample ID: LCS 880-30765/2-A  
 Matrix: Solid  
 Analysis Batch: 30743

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 30765

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	1071		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	1000	848.8		mg/Kg		85	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane (Surr)	89		70 - 130
o-Terphenyl (Surr)	82		70 - 130

Lab Sample ID: LCSD 880-30765/3-A  
 Matrix: Solid  
 Analysis Batch: 30743

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 30765

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1037		mg/Kg		104	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1108	*1	mg/Kg		111	70 - 130	26	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane (Surr)	107		70 - 130
o-Terphenyl (Surr)	108		70 - 130

Lab Sample ID: 880-17301-1 MS  
 Matrix: Solid  
 Analysis Batch: 30743

Client Sample ID: BH-1  
 Prep Type: Total/NA  
 Prep Batch: 30765

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1100		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U *1	1000	760.4		mg/Kg		76	70 - 130

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### QC Sample Results

Client: Lighthouse Environmental Services, Inc  
 Project/Site: Salt Creek Ameredev tote spill 2202-5074

Job ID: 880-17301-1  
 SDG: 32.028185, -103.2781139

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-17301-1 MS  
 Matrix: Solid  
 Analysis Batch: 30743

Client Sample ID: BH-1  
 Prep Type: Total/NA  
 Prep Batch: 30765

Surrogate	%Recovery	MS MS Qualifier	Limits
1-Chlorooctane (Surr)	99		70 - 130
o-Terphenyl (Surr)	88		70 - 130

Lab Sample ID: 880-17301-1 MSD  
 Matrix: Solid  
 Analysis Batch: 30743

Client Sample ID: BH-1  
 Prep Type: Total/NA  
 Prep Batch: 30765

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1099		mg/Kg		106	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U *1	999	782.1		mg/Kg		78	70 - 130	3	20

Surrogate	%Recovery	MSD MSD Qualifier	Limits
1-Chlorooctane (Surr)	99		70 - 130
o-Terphenyl (Surr)	89		70 - 130

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-30601/1-A  
 Matrix: Solid  
 Analysis Batch: 30721

Client Sample ID: Method Blank  
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/27/22 09:44	1

Lab Sample ID: LCS 880-30601/2-A  
 Matrix: Solid  
 Analysis Batch: 30721

Client Sample ID: Lab Control Sample  
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	262.2		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-30601/3-A  
 Matrix: Solid  
 Analysis Batch: 30721

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	262.4		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-17301-3 MS  
 Matrix: Solid  
 Analysis Batch: 30721

Client Sample ID: BH-3  
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	9.76	F1	250	555.7	F1	mg/Kg		218	90 - 110

### QC Sample Results

Client: Lighthouse Environmental Services, Inc  
Project/Site: Salt Creek Ameredev tote spill 2202-5074

Job ID: 880-17301-1  
SDG: 32.028185, -103.2781139

#### Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-17301-3 MSD  
Matrix: Solid  
Analysis Batch: 30721

Client Sample ID: BH-3  
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	9.76	F1	250	555.5	F1	mg/Kg		218	90 - 110	0	20

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## QC Association Summary

Client: Lighthouse Environmental Services, Inc  
 Project/Site: Salt Creek Ameredev tote spill 2202-5074

Job ID: 880-17301-1  
 SDG: 32.028185, -103.2781139

## GC VOA

## Prep Batch: 30680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17301-1	BH-1	Total/NA	Solid	5035	
880-17301-2	BH-2	Total/NA	Solid	5035	
880-17301-3	BH-3	Total/NA	Solid	5035	
880-17301-4	BH-4	Total/NA	Solid	5035	
880-17301-5	BH-5	Total/NA	Solid	5035	
880-17301-6	BH-6	Total/NA	Solid	5035	
MB 880-30680/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-30680/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-30680/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## Analysis Batch: 30750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17301-1	BH-1	Total/NA	Solid	8021B	30680
880-17301-2	BH-2	Total/NA	Solid	8021B	30680
880-17301-3	BH-3	Total/NA	Solid	8021B	30680
880-17301-4	BH-4	Total/NA	Solid	8021B	30680
880-17301-5	BH-5	Total/NA	Solid	8021B	30680
880-17301-6	BH-6	Total/NA	Solid	8021B	30680
MB 880-30680/5-A	Method Blank	Total/NA	Solid	8021B	30680
LCS 880-30680/1-A	Lab Control Sample	Total/NA	Solid	8021B	30680
LCSD 880-30680/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	30680

## Analysis Batch: 30907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17301-1	BH-1	Total/NA	Solid	Total BTEX	
880-17301-2	BH-2	Total/NA	Solid	Total BTEX	
880-17301-3	BH-3	Total/NA	Solid	Total BTEX	
880-17301-4	BH-4	Total/NA	Solid	Total BTEX	
880-17301-5	BH-5	Total/NA	Solid	Total BTEX	
880-17301-6	BH-6	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Analysis Batch: 30743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17301-1	BH-1	Total/NA	Solid	8015B NM	30765
880-17301-2	BH-2	Total/NA	Solid	8015B NM	30765
880-17301-3	BH-3	Total/NA	Solid	8015B NM	30765
880-17301-4	BH-4	Total/NA	Solid	8015B NM	30765
880-17301-5	BH-5	Total/NA	Solid	8015B NM	30765
880-17301-6	BH-6	Total/NA	Solid	8015B NM	30765
MB 880-30765/1-A	Method Blank	Total/NA	Solid	8015B NM	30765
LCS 880-30765/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	30765
LCSD 880-30765/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	30765
880-17301-1 MS	BH-1	Total/NA	Solid	8015B NM	30765
880-17301-1 MSD	BH-1	Total/NA	Solid	8015B NM	30765

## Prep Batch: 30765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17301-1	BH-1	Total/NA	Solid	8015NM Prep	
880-17301-2	BH-2	Total/NA	Solid	8015NM Prep	

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## QC Association Summary

Client: Lighthouse Environmental Services, Inc  
 Project/Site: Salt Creek Ameredev tote spill 2202-5074

Job ID: 880-17301-1  
 SDG: 32.028185, -103.2781139

## GC Semi VOA (Continued)

## Prep Batch: 30765 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17301-3	BH-3	Total/NA	Solid	8015NM Prep	
880-17301-4	BH-4	Total/NA	Solid	8015NM Prep	
880-17301-5	BH-5	Total/NA	Solid	8015NM Prep	
880-17301-6	BH-6	Total/NA	Solid	8015NM Prep	
MB 880-30765/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-30765/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-30765/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-17301-1 MS	BH-1	Total/NA	Solid	8015NM Prep	
880-17301-1 MSD	BH-1	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 30830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17301-1	BH-1	Total/NA	Solid	8015 NM	
880-17301-2	BH-2	Total/NA	Solid	8015 NM	
880-17301-3	BH-3	Total/NA	Solid	8015 NM	
880-17301-4	BH-4	Total/NA	Solid	8015 NM	
880-17301-5	BH-5	Total/NA	Solid	8015 NM	
880-17301-6	BH-6	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 30601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17301-1	BH-1	Soluble	Solid	DI Leach	
880-17301-2	BH-2	Soluble	Solid	DI Leach	
880-17301-3	BH-3	Soluble	Solid	DI Leach	
880-17301-4	BH-4	Soluble	Solid	DI Leach	
880-17301-5	BH-5	Soluble	Solid	DI Leach	
880-17301-6	BH-6	Soluble	Solid	DI Leach	
MB 880-30601/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-30601/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-30601/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-17301-3 MS	BH-3	Soluble	Solid	DI Leach	
880-17301-3 MSD	BH-3	Soluble	Solid	DI Leach	

## Analysis Batch: 30721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17301-1	BH-1	Soluble	Solid	300.0	30601
880-17301-2	BH-2	Soluble	Solid	300.0	30601
880-17301-3	BH-3	Soluble	Solid	300.0	30601
880-17301-4	BH-4	Soluble	Solid	300.0	30601
880-17301-5	BH-5	Soluble	Solid	300.0	30601
880-17301-6	BH-6	Soluble	Solid	300.0	30601
MB 880-30601/1-A	Method Blank	Soluble	Solid	300.0	30601
LCS 880-30601/2-A	Lab Control Sample	Soluble	Solid	300.0	30601
LCSD 880-30601/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	30601
880-17301-3 MS	BH-3	Soluble	Solid	300.0	30601
880-17301-3 MSD	BH-3	Soluble	Solid	300.0	30601

Eurofins Midland

## Lab Chronicle

Client: Lighthouse Environmental Services, Inc  
 Project/Site: Salt Creek Ameredev tote spill 2202-5074

Job ID: 880-17301-1  
 SDG: 32.028185, -103.2781139

## Client Sample ID: BH-1

## Lab Sample ID: 880-17301-1

Date Collected: 07/21/22 12:05

Matrix: Solid

Date Received: 07/22/22 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	30680	07/26/22 11:07	MR	XEN MID
Total/NA	Analysis	8021B		1			30750	07/27/22 20:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30907	07/28/22 10:37	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30830	07/27/22 15:34	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30765	07/27/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30743	07/27/22 10:52	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	30601	07/25/22 15:31	KS	XEN MID
Soluble	Analysis	300.0		1			30721	07/27/22 13:01	CH	XEN MID

## Client Sample ID: BH-2

## Lab Sample ID: 880-17301-2

Date Collected: 07/21/22 12:10

Matrix: Solid

Date Received: 07/22/22 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	30680	07/26/22 11:07	MR	XEN MID
Total/NA	Analysis	8021B		1			30750	07/27/22 20:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30907	07/28/22 10:37	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30830	07/27/22 15:34	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30765	07/27/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30743	07/27/22 14:01	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	30601	07/25/22 15:31	KS	XEN MID
Soluble	Analysis	300.0		1			30721	07/27/22 13:09	CH	XEN MID

## Client Sample ID: BH-3

## Lab Sample ID: 880-17301-3

Date Collected: 07/21/22 12:15

Matrix: Solid

Date Received: 07/22/22 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	30680	07/26/22 11:07	MR	XEN MID
Total/NA	Analysis	8021B		1			30750	07/27/22 21:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30907	07/28/22 10:37	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30830	07/27/22 15:34	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30765	07/27/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30743	07/27/22 13:40	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	30601	07/25/22 15:31	KS	XEN MID
Soluble	Analysis	300.0		1			30721	07/27/22 13:17	CH	XEN MID

## Client Sample ID: BH-4

## Lab Sample ID: 880-17301-4

Date Collected: 07/21/22 12:20

Matrix: Solid

Date Received: 07/22/22 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	30680	07/26/22 11:07	MR	XEN MID
Total/NA	Analysis	8021B		1			30750	07/27/22 21:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30907	07/28/22 10:37	SM	XEN MID

Eurofins Midland

## Lab Chronicle

Client: Lighthouse Environmental Services, Inc  
 Project/Site: Salt Creek Ameredev tote spill 2202-5074

Job ID: 880-17301-1  
 SDG: 32.028185, -103.2781139

## Client Sample ID: BH-4

Lab Sample ID: 880-17301-4

Date Collected: 07/21/22 12:20

Matrix: Solid

Date Received: 07/22/22 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			30830	07/27/22 15:34	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30765	07/27/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30743	07/27/22 15:05	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	30601	07/25/22 15:31	KS	XEN MID
Soluble	Analysis	300.0		1			30721	07/27/22 13:41	CH	XEN MID

## Client Sample ID: BH-5

Lab Sample ID: 880-17301-5

Date Collected: 07/21/22 12:25

Matrix: Solid

Date Received: 07/22/22 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	30680	07/26/22 11:07	MR	XEN MID
Total/NA	Analysis	8021B		1			30750	07/27/22 23:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30907	07/28/22 10:37	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30830	07/27/22 15:34	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30765	07/27/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30743	07/27/22 15:25	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	30601	07/25/22 15:31	KS	XEN MID
Soluble	Analysis	300.0		1			30721	07/27/22 13:48	CH	XEN MID

## Client Sample ID: BH-6

Lab Sample ID: 880-17301-6

Date Collected: 07/21/22 12:30

Matrix: Solid

Date Received: 07/22/22 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	30680	07/26/22 11:07	MR	XEN MID
Total/NA	Analysis	8021B		1			30750	07/28/22 00:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30907	07/28/22 10:37	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30830	07/27/22 15:34	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	30765	07/27/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30743	07/27/22 15:46	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	30601	07/25/22 15:31	KS	XEN MID
Soluble	Analysis	300.0		1			30721	07/27/22 14:23	CH	XEN MID

## Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

### Accreditation/Certification Summary

Client: Lighthouse Environmental Services, Inc  
Project/Site: Salt Creek Ameredev tote spill 2202-5074

Job ID: 880-17301-1  
SDG: 32.028185, -103.2781139

#### Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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## Method Summary

Client: Lighthouse Environmental Services, Inc  
 Project/Site: Salt Creek Ameredev tote spill 2202-5074

Job ID: 880-17301-1  
 SDG: 32.028185, -103.2781139

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

### Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

### Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

### Sample Summary

Client: Lighthouse Environmental Services, Inc  
Project/Site: Salt Creek Ameredev tote spill 2202-5074

Job ID: 880-17301-1  
SDG: 32.028185, -103.2781139

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-17301-1	BH-1	Solid	07/21/22 12:05	07/22/22 16:55
880-17301-2	BH-2	Solid	07/21/22 12:10	07/22/22 16:55
880-17301-3	BH-3	Solid	07/21/22 12:15	07/22/22 16:55
880-17301-4	BH-4	Solid	07/21/22 12:20	07/22/22 16:55
880-17301-5	BH-5	Solid	07/21/22 12:25	07/22/22 16:55
880-17301-6	BH-6	Solid	07/21/22 12:30	07/22/22 16:55

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Environment Testing Xenco

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 Midland TX (432) 704-5440 San Antonio TX (210) 509-3334 EL Paso TX (915) 585-3443 Lubbock TX (806) 794-1296 Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Chain of Custody

Work Order No: 17301

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Page 1 of 1

Project Manager: Simon Hudgens, Company Name: Lighthouse Environmental Services Inc, Address: 4904 Fuqua Street, Houston TX 77048, Phone: 713-987-0400, Email: shudgens@lighthouseenv.com

Work Order Comments: Program: UST/PST, State of Project: TX, Reporting Level: Level II, Deliverables: EDD

Project Name: Salt Creek Ameredeve tote spill, Project Number: 2202-5074, Project Location: 32 028185 -103 278139, Sampler's Name: Trey Sawyer, PO #: 2202-5074, Turn Around: Routine, Due Date: TAT starts the day received by the lab if received by 4:30pm

Table with columns: Sample Identification, Matrix, Date Sampled, Time Sampled, Depth, Grab/Comp, # of Cont, ANALYSIS REQUEST (TPH TX-1005, TCLP BTEX, TCLP RCRA 8 Metals, Total Sulfur, BTEX 8021B, RCI, pH, TPH 8015 GRO, DRO, MRO, Chloride EPA 300 0), Preservative Codes, Sample Comments



Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn, Circle Method(s) and Metal(s) to be analyzed: TCLP/SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631/2451/7470/7471

Relinquished by (Signature), Received by (Signature), Date/Time, Relinquished by (Signature), Received by (Signature), Date/Time

### Login Sample Receipt Checklist

Client: Lighthouse Environmental Services, Inc

Job Number: 880-17301-1  
SDG Number: 32.028185, -103.2781139

**Login Number: 17301**  
**List Number: 1**  
**Creator: Rodriguez, Leticia**

**List Source: Eurofins Midland**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Report to:  
Tom Bynum



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

### Pima Environmental Services-Carlsbad

Project Name: Amere Dev South Treating Facility

Work Order: E209140

Job Number: 21064-0001

Received: 9/26/2022

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/26/22

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 9/26/22



Tom Bynum  
PO Box 247  
Plains, TX 79355-0247

Project Name: Amere Dev South Treating Facility  
Workorder: E209140  
Date Received: 9/26/2022 9:00:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/26/2022 9:00:00AM, under the Project Name: Amere Dev South Treating Facility.

The analytical test results summarized in this report with the Project Name: Amere Dev South Treating Facility 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 PO Box 247 Plains TX, 79355-0247	Project Name: Amere Dev South Treating Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 09/26/22 17:21
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH1	E209140-01A	Soil	09/23/22	09/26/22	Glass Jar, 4 oz.
BH2	E209140-02A	Soil	09/23/22	09/26/22	Glass Jar, 4 oz.
BH3	E209140-03A	Soil	09/23/22	09/26/22	Glass Jar, 4 oz.
BH4	E209140-04A	Soil	09/23/22	09/26/22	Glass Jar, 4 oz.
BH5	E209140-05A	Soil	09/23/22	09/26/22	Glass Jar, 4 oz.
SW1	E209140-06A	Soil	09/23/22	09/26/22	Glass Jar, 4 oz.
SW2	E209140-07A	Soil	09/23/22	09/26/22	Glass Jar, 4 oz.
SW3	E209140-08A	Soil	09/23/22	09/26/22	Glass Jar, 4 oz.
SW4	E209140-09A	Soil	09/23/22	09/26/22	Glass Jar, 4 oz.
SW5	E209140-10A	Soil	09/23/22	09/26/22	Glass Jar, 4 oz.
BG1	E209140-11A	Soil	09/23/22	09/26/22	Glass Jar, 4 oz.
BG2	E209140-12A	Soil	09/23/22	09/26/22	Glass Jar, 4 oz.

### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Amere Dev South Treating Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 9/26/2022 5:21:33PM
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**BH1**  
**E209140-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2240001
Benzene	ND	0.0250	1	09/26/22	09/26/22	
Ethylbenzene	ND	0.0250	1	09/26/22	09/26/22	
Toluene	ND	0.0250	1	09/26/22	09/26/22	
o-Xylene	ND	0.0250	1	09/26/22	09/26/22	
p,m-Xylene	ND	0.0500	1	09/26/22	09/26/22	
Total Xylenes	ND	0.0250	1	09/26/22	09/26/22	
<i>Surrogate: Bromofluorobenzene</i>		100 %	70-130	09/26/22	09/26/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.3 %	70-130	09/26/22	09/26/22	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	09/26/22	09/26/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2240001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/26/22	09/26/22	
<i>Surrogate: Bromofluorobenzene</i>		100 %	70-130	09/26/22	09/26/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.3 %	70-130	09/26/22	09/26/22	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	09/26/22	09/26/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2240003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/22	09/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/22	09/26/22	
<i>Surrogate: n-Nonane</i>		75.9 %	50-200	09/26/22	09/26/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2240004
Chloride	ND	20.0	1	09/26/22	09/26/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Amere Dev South Treating Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 9/26/2022 5:21:33PM
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**BH2**

**E209140-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2240001
Benzene	ND	0.0250	1	09/26/22	09/26/22	
Ethylbenzene	ND	0.0250	1	09/26/22	09/26/22	
Toluene	ND	0.0250	1	09/26/22	09/26/22	
o-Xylene	ND	0.0250	1	09/26/22	09/26/22	
p,m-Xylene	ND	0.0500	1	09/26/22	09/26/22	
Total Xylenes	ND	0.0250	1	09/26/22	09/26/22	
<i>Surrogate: Bromofluorobenzene</i>		96.6 %	70-130	09/26/22	09/26/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.2 %	70-130	09/26/22	09/26/22	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	09/26/22	09/26/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2240001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/26/22	09/26/22	
<i>Surrogate: Bromofluorobenzene</i>		96.6 %	70-130	09/26/22	09/26/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.2 %	70-130	09/26/22	09/26/22	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	09/26/22	09/26/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2240003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/22	09/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/22	09/26/22	
<i>Surrogate: n-Nonane</i>		97.8 %	50-200	09/26/22	09/26/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2240004
Chloride	ND	20.0	1	09/26/22	09/26/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Amere Dev South Treating Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 9/26/2022 5:21:33PM
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**BH3**

**E209140-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2240001
Benzene	ND	0.0250	1	09/26/22	09/26/22	
Ethylbenzene	ND	0.0250	1	09/26/22	09/26/22	
Toluene	ND	0.0250	1	09/26/22	09/26/22	
o-Xylene	ND	0.0250	1	09/26/22	09/26/22	
p,m-Xylene	ND	0.0500	1	09/26/22	09/26/22	
Total Xylenes	ND	0.0250	1	09/26/22	09/26/22	
<i>Surrogate: Bromofluorobenzene</i>		99.7 %	70-130	09/26/22	09/26/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.2 %	70-130	09/26/22	09/26/22	
<i>Surrogate: Toluene-d8</i>		98.0 %	70-130	09/26/22	09/26/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2240001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/26/22	09/26/22	
<i>Surrogate: Bromofluorobenzene</i>		99.7 %	70-130	09/26/22	09/26/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.2 %	70-130	09/26/22	09/26/22	
<i>Surrogate: Toluene-d8</i>		98.0 %	70-130	09/26/22	09/26/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2240003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/22	09/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/22	09/26/22	
<i>Surrogate: n-Nonane</i>		86.5 %	50-200	09/26/22	09/26/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2240004
Chloride	ND	20.0	1	09/26/22	09/26/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Amere Dev South Treating Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 9/26/2022 5:21:33PM
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**BH4**

**E209140-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2240001
Benzene	ND	0.0250	1	09/26/22	09/26/22	
Ethylbenzene	ND	0.0250	1	09/26/22	09/26/22	
Toluene	ND	0.0250	1	09/26/22	09/26/22	
o-Xylene	ND	0.0250	1	09/26/22	09/26/22	
p,m-Xylene	ND	0.0500	1	09/26/22	09/26/22	
Total Xylenes	ND	0.0250	1	09/26/22	09/26/22	
<i>Surrogate: Bromofluorobenzene</i>		99.9 %	70-130	09/26/22	09/26/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.6 %	70-130	09/26/22	09/26/22	
<i>Surrogate: Toluene-d8</i>		96.1 %	70-130	09/26/22	09/26/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2240001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/26/22	09/26/22	
<i>Surrogate: Bromofluorobenzene</i>		99.9 %	70-130	09/26/22	09/26/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.6 %	70-130	09/26/22	09/26/22	
<i>Surrogate: Toluene-d8</i>		96.1 %	70-130	09/26/22	09/26/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2240003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/22	09/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/22	09/26/22	
<i>Surrogate: n-Nonane</i>		81.8 %	50-200	09/26/22	09/26/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2240004
Chloride	ND	20.0	1	09/26/22	09/26/22	





### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Amere Dev South Treating Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 9/26/2022 5:21:33PM
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**BH5**

**E209140-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240001
Benzene	ND	0.0250	1	09/26/22	09/26/22	
Ethylbenzene	ND	0.0250	1	09/26/22	09/26/22	
Toluene	ND	0.0250	1	09/26/22	09/26/22	
o-Xylene	ND	0.0250	1	09/26/22	09/26/22	
p,m-Xylene	ND	0.0500	1	09/26/22	09/26/22	
Total Xylenes	ND	0.0250	1	09/26/22	09/26/22	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	09/26/22	09/26/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.0 %	70-130	09/26/22	09/26/22	
<i>Surrogate: Toluene-d8</i>		97.2 %	70-130	09/26/22	09/26/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/26/22	09/26/22	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	09/26/22	09/26/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.0 %	70-130	09/26/22	09/26/22	
<i>Surrogate: Toluene-d8</i>		97.2 %	70-130	09/26/22	09/26/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/22	09/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/22	09/26/22	
<i>Surrogate: n-Nonane</i>		85.4 %	50-200	09/26/22	09/26/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240004
Chloride	ND	20.0	1	09/26/22	09/26/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Amere Dev South Treating Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 9/26/2022 5:21:33PM
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**SW1**

**E209140-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240001
Benzene	ND	0.0250	1	09/26/22	09/26/22	
Ethylbenzene	ND	0.0250	1	09/26/22	09/26/22	
Toluene	ND	0.0250	1	09/26/22	09/26/22	
o-Xylene	ND	0.0250	1	09/26/22	09/26/22	
p,m-Xylene	ND	0.0500	1	09/26/22	09/26/22	
Total Xylenes	ND	0.0250	1	09/26/22	09/26/22	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	09/26/22	09/26/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.2 %	70-130	09/26/22	09/26/22	
<i>Surrogate: Toluene-d8</i>		98.4 %	70-130	09/26/22	09/26/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/26/22	09/26/22	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	09/26/22	09/26/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.2 %	70-130	09/26/22	09/26/22	
<i>Surrogate: Toluene-d8</i>		98.4 %	70-130	09/26/22	09/26/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/22	09/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/22	09/26/22	
<i>Surrogate: n-Nonane</i>		82.9 %	50-200	09/26/22	09/26/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240004
Chloride	ND	20.0	1	09/26/22	09/26/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Amere Dev South Treating Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 9/26/2022 5:21:33PM
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**SW2**

**E209140-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240001
Benzene	ND	0.0250	1	09/26/22	09/26/22	
Ethylbenzene	ND	0.0250	1	09/26/22	09/26/22	
Toluene	ND	0.0250	1	09/26/22	09/26/22	
o-Xylene	ND	0.0250	1	09/26/22	09/26/22	
p,m-Xylene	ND	0.0500	1	09/26/22	09/26/22	
Total Xylenes	ND	0.0250	1	09/26/22	09/26/22	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	09/26/22	09/26/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.7 %	70-130	09/26/22	09/26/22	
<i>Surrogate: Toluene-d8</i>		97.9 %	70-130	09/26/22	09/26/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/26/22	09/26/22	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	09/26/22	09/26/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.7 %	70-130	09/26/22	09/26/22	
<i>Surrogate: Toluene-d8</i>		97.9 %	70-130	09/26/22	09/26/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/22	09/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/22	09/26/22	
<i>Surrogate: n-Nonane</i>		84.5 %	50-200	09/26/22	09/26/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240004
Chloride	ND	20.0	1	09/26/22	09/26/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Amere Dev South Treating Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 9/26/2022 5:21:33PM
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**SW3**

**E209140-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240001
Benzene	ND	0.0250	1	09/26/22	09/26/22	
Ethylbenzene	ND	0.0250	1	09/26/22	09/26/22	
Toluene	ND	0.0250	1	09/26/22	09/26/22	
o-Xylene	ND	0.0250	1	09/26/22	09/26/22	
p,m-Xylene	ND	0.0500	1	09/26/22	09/26/22	
Total Xylenes	ND	0.0250	1	09/26/22	09/26/22	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	09/26/22	09/26/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		89.7 %	70-130	09/26/22	09/26/22	
<i>Surrogate: Toluene-d8</i>		97.7 %	70-130	09/26/22	09/26/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/26/22	09/26/22	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	09/26/22	09/26/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		89.7 %	70-130	09/26/22	09/26/22	
<i>Surrogate: Toluene-d8</i>		97.7 %	70-130	09/26/22	09/26/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/22	09/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/22	09/26/22	
<i>Surrogate: n-Nonane</i>		83.8 %	50-200	09/26/22	09/26/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240004
Chloride	ND	20.0	1	09/26/22	09/26/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Amere Dev South Treating Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 9/26/2022 5:21:33PM
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**SW4**

**E209140-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240001
Benzene	ND	0.0250	1	09/26/22	09/26/22	
Ethylbenzene	ND	0.0250	1	09/26/22	09/26/22	
Toluene	ND	0.0250	1	09/26/22	09/26/22	
o-Xylene	ND	0.0250	1	09/26/22	09/26/22	
p,m-Xylene	ND	0.0500	1	09/26/22	09/26/22	
Total Xylenes	ND	0.0250	1	09/26/22	09/26/22	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	09/26/22	09/26/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.6 %	70-130	09/26/22	09/26/22	
<i>Surrogate: Toluene-d8</i>		97.3 %	70-130	09/26/22	09/26/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/26/22	09/26/22	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	09/26/22	09/26/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.6 %	70-130	09/26/22	09/26/22	
<i>Surrogate: Toluene-d8</i>		97.3 %	70-130	09/26/22	09/26/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/22	09/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/22	09/26/22	
<i>Surrogate: n-Nonane</i>		84.2 %	50-200	09/26/22	09/26/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240004
Chloride	ND	20.0	1	09/26/22	09/26/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Amere Dev South Treating Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 9/26/2022 5:21:33PM
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**SW5**

**E209140-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240001
Benzene	ND	0.0250	1	09/26/22	09/26/22	
Ethylbenzene	ND	0.0250	1	09/26/22	09/26/22	
Toluene	ND	0.0250	1	09/26/22	09/26/22	
o-Xylene	ND	0.0250	1	09/26/22	09/26/22	
p,m-Xylene	ND	0.0500	1	09/26/22	09/26/22	
Total Xylenes	ND	0.0250	1	09/26/22	09/26/22	
<i>Surrogate: Bromofluorobenzene</i>		97.7 %	70-130	09/26/22	09/26/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.8 %	70-130	09/26/22	09/26/22	
<i>Surrogate: Toluene-d8</i>		97.5 %	70-130	09/26/22	09/26/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/26/22	09/26/22	
<i>Surrogate: Bromofluorobenzene</i>		97.7 %	70-130	09/26/22	09/26/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.8 %	70-130	09/26/22	09/26/22	
<i>Surrogate: Toluene-d8</i>		97.5 %	70-130	09/26/22	09/26/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/22	09/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/22	09/26/22	
<i>Surrogate: n-Nonane</i>		81.9 %	50-200	09/26/22	09/26/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240004
Chloride	ND	20.0	1	09/26/22	09/26/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Amere Dev South Treating Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 9/26/2022 5:21:33PM
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**BG1**

**E209140-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240001
Benzene	ND	0.0250	1	09/26/22	09/26/22	
Ethylbenzene	ND	0.0250	1	09/26/22	09/26/22	
Toluene	ND	0.0250	1	09/26/22	09/26/22	
o-Xylene	ND	0.0250	1	09/26/22	09/26/22	
p,m-Xylene	ND	0.0500	1	09/26/22	09/26/22	
Total Xylenes	ND	0.0250	1	09/26/22	09/26/22	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	09/26/22	09/26/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		89.2 %	70-130	09/26/22	09/26/22	
<i>Surrogate: Toluene-d8</i>		99.9 %	70-130	09/26/22	09/26/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/26/22	09/26/22	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	09/26/22	09/26/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		89.2 %	70-130	09/26/22	09/26/22	
<i>Surrogate: Toluene-d8</i>		99.9 %	70-130	09/26/22	09/26/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/22	09/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/22	09/26/22	
<i>Surrogate: n-Nonane</i>		90.8 %	50-200	09/26/22	09/26/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240004
Chloride	ND	20.0	1	09/26/22	09/26/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Amere Dev South Treating Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 9/26/2022 5:21:33PM
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**BG2**

**E209140-12**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240001
Benzene	ND	0.0250	1	09/26/22	09/26/22	
Ethylbenzene	ND	0.0250	1	09/26/22	09/26/22	
Toluene	ND	0.0250	1	09/26/22	09/26/22	
o-Xylene	ND	0.0250	1	09/26/22	09/26/22	
p,m-Xylene	ND	0.0500	1	09/26/22	09/26/22	
Total Xylenes	ND	0.0250	1	09/26/22	09/26/22	
<i>Surrogate: Bromofluorobenzene</i>		99.8 %	70-130	09/26/22	09/26/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.2 %	70-130	09/26/22	09/26/22	
<i>Surrogate: Toluene-d8</i>		97.8 %	70-130	09/26/22	09/26/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/26/22	09/26/22	
<i>Surrogate: Bromofluorobenzene</i>		99.8 %	70-130	09/26/22	09/26/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.2 %	70-130	09/26/22	09/26/22	
<i>Surrogate: Toluene-d8</i>		97.8 %	70-130	09/26/22	09/26/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/22	09/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/22	09/26/22	
<i>Surrogate: n-Nonane</i>		89.5 %	50-200	09/26/22	09/26/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240004
Chloride	ND	20.0	1	09/26/22	09/26/22	





### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Amere Dev South Treating Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 9/26/2022 5:21:33PM
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#### 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 (2240001-BLK1)

Prepared: 09/26/22 Analyzed: 09/26/22

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	0.485		0.500		96.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		92.0	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

#### LCS (2240001-BS1)

Prepared: 09/26/22 Analyzed: 09/26/22

Benzene	1.97	0.0250	2.50		78.6	70-130			
Ethylbenzene	2.02	0.0250	2.50		80.7	70-130			
Toluene	1.97	0.0250	2.50		79.0	70-130			
o-Xylene	1.88	0.0250	2.50		75.0	70-130			
p,m-Xylene	3.75	0.0500	5.00		74.9	70-130			
Total Xylenes	5.62	0.0250	7.50		75.0	70-130			
Surrogate: Bromofluorobenzene	0.497		0.500		99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.463		0.500		92.5	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

#### LCS Dup (2240001-BSD1)

Prepared: 09/26/22 Analyzed: 09/26/22

Benzene	2.22	0.0250	2.50		89.0	70-130	12.4	23	
Ethylbenzene	2.29	0.0250	2.50		91.5	70-130	12.6	27	
Toluene	2.25	0.0250	2.50		90.1	70-130	13.2	24	
o-Xylene	2.15	0.0250	2.50		85.9	70-130	13.5	27	
p,m-Xylene	4.25	0.0500	5.00		85.0	70-130	12.6	27	
Total Xylenes	6.40	0.0250	7.50		85.3	70-130	12.9	27	
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.535		0.500		107	70-130			



### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Amere Dev South Treating Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 9/26/2022 5:21:33PM
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#### Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2240001-BLK1)**

Prepared: 09/26/22 Analyzed: 09/26/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.485		0.500		96.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		92.0	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

**LCS (2240001-BS2)**

Prepared: 09/26/22 Analyzed: 09/26/22

Gasoline Range Organics (C6-C10)	51.9	20.0	50.0		104	70-130			
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.8	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			

**LCS Dup (2240001-BSD2)**

Prepared: 09/26/22 Analyzed: 09/26/22

Gasoline Range Organics (C6-C10)	53.3	20.0	50.0		107	70-130	2.68	20	
Surrogate: Bromofluorobenzene	0.490		0.500		98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			



### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Amere Dev South Treating Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 9/26/2022 5:21:33PM
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#### 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 (2240003-BLK1)**

Prepared: 09/26/22 Analyzed: 09/26/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	40.1		50.0		80.2	50-200			

**LCS (2240003-BS1)**

Prepared: 09/26/22 Analyzed: 09/26/22

Diesel Range Organics (C10-C28)	246	25.0	250		98.4	38-132			
Surrogate: <i>n</i> -Nonane	43.2		50.0		86.5	50-200			

**Matrix Spike (2240003-MS1)**

Source: E209140-05

Prepared: 09/26/22 Analyzed: 09/26/22

Diesel Range Organics (C10-C28)	245	25.0	250	ND	97.9	38-132			
Surrogate: <i>n</i> -Nonane	43.3		50.0		86.5	50-200			

**Matrix Spike Dup (2240003-MSD1)**

Source: E209140-05

Prepared: 09/26/22 Analyzed: 09/26/22

Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.1	38-132	1.21	20	
Surrogate: <i>n</i> -Nonane	43.9		50.0		87.9	50-200			



### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Amere Dev South Treating Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 9/26/2022 5:21:33PM
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#### Anions by EPA 300.0/9056A

Analyst: RAS

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 (2240004-BLK1)**

Prepared: 09/26/22 Analyzed: 09/26/22

Chloride	ND	20.0							
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**LCS (2240004-BS1)**

Prepared: 09/26/22 Analyzed: 09/26/22

Chloride	249	20.0	250		99.7	90-110			
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**LCS Dup (2240004-BSD1)**

Prepared: 09/26/22 Analyzed: 09/26/22

Chloride	248	20.0	250		99.2	90-110	0.486	20	
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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:	Amere Dev South Treating Facility	
PO Box 247	Project Number:	21064-0001	<b>Reported:</b>
Plains TX, 79355-0247	Project Manager:	Tom Bynum	09/26/22 17:21

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

*AmereDev South Treating Facility*

Client: <u>Pima Environmental Services</u>	Bill To	Lab Use Only		TAT			EPA Program												
Project: _____	Attention: _____	Lab WOH# <u>E 209140</u>	Job Number <u>21064-001</u>	1D	2D	3D	Standard	CWA	SDWA										
Project Manager: <u>Tom Bynum</u>	Address: _____	Analysis and Method							RCRA										
Address: <u>5614 N. Lovington Hwy.</u>	City, State, Zip _____	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX										
City, State, Zip <u>Hobbs, NM, 88240</u>	Phone: _____	State																	
Phone: <u>580-748-1613</u>	Email: _____	<table border="1"> <tr> <td>NM</td> <td>CO</td> <td>UT</td> <td>AZ</td> <td>TX</td> </tr> <tr> <td>X</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>								NM	CO	UT	AZ	TX	X				
NM	CO	UT	AZ	TX															
X																			
Email: <u>tom@pimaoil.com</u>	Pima Project # <u>20-1</u>	Remarks																	
Report due by: _____																			

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
8:00	9/23/22	S	1	BH1	1							X		
8:05				BH2	2									
8:10				BH3	3									
8:15				BH4	4									
8:20				BH5	5									
8:25				SW1	6									
8:30				SW2	7									
8:35				SW3	8									
8:40				SW4	9									
8:45				SW5	10									

**Additional Instructions:**

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

Relinquished by: (Signature) <u>Audriana Benavidez</u>				Date: <u>9/23/22</u>		Time: <u>2:35</u>		Received by: (Signature) <u>[Signature]</u>				Date: <u>9/23/22</u>		Time: <u>2:00</u>		Lab Use Only	
Relinquished by: (Signature) <u>[Signature]</u>				Date: <u>9-23-22</u>		Time: <u>4:15</u>		Received by: (Signature) <u>[Signature]</u>				Date: <u>9/23/22</u>		Time: <u>9:00</u>		Received on ice: <u>(Y) N</u>	
Relinquished by: (Signature) _____				Date: _____		Time: _____		Received by: (Signature) _____				Date: _____		Time: _____		AVG Temp °C <u>4</u>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



Project Information

Chain of Custody

Amere Dev South Treating Facility

Client: Pima Environmental Services		Bill To		Lab Use Only		TAT			EPA Program	
Project: _____		Attention: _____		Lab Work# E-2091410		1D 2D 3D			Standard	
Project Manager: Tom Bynum		Address: _____		Job Number 21004-0001		X			CWA SDWA	
Address: 5614 N. Lovington Hwy.		City, State, Zip _____		Analysis and Method					RCRA	
City, State, Zip Hobbs, NM, 88240		Phone: _____		DRO/DRO by 8015					State	
Phone: 580-748-1613		Email: _____		GRO/DRO by 8015					NM CO UT AZ TX	
Email: tom@pimaoil.com		Pima Project # _____		BTEX by 8021					X	
Report due by: _____				VOC by 8260						
				Metals 6010						
				Chloride 300.0						
				BGDOC NM						
				BGDOC TX						

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
8:50	9/23/22	S	1	BQ1	11							X		
8:55	L	L	L	BQ2	12							L		

Additional Instructions:

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

Relinquished by: (Signature) <i>Abdullah Anderson</i>	Date 9/23/22	Time 2:35	Received by: (Signature) <i>Audriana Benavidez</i>	Date 9/23/22	Time 3:00	Lab Use Only
Relinquished by: (Signature) <i>[Signature]</i>	Date 9-23-22	Time 4:11	Received by: (Signature) <i>[Signature]</i>	Date 9/23/22	Time 9:00	Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3
AVG Temp °C 4						

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

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



Envirotech Analytical Laboratory

Printed: 9/26/2022 9:23:42AM

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: 09/26/22 09:00 Work Order ID: E209140
Phone: (575) 631-6977 Date Logged In: 09/23/22 16:10 Logged In By: Caitlin Christian
Email: tom@pimaoil.com Due Date: 09/26/22 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

Carrier: UPS

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for client instruction.

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

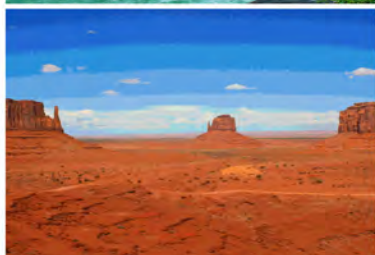
Date



envirotech Inc.



Report to:  
Tom Bynum



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

### Pima Environmental Services-Carlsbad

Project Name: Ameredev South Facility

Work Order: E209185

Job Number: 21064-0001

Received: 10/3/2022

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
10/5/22

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 10/5/22



Tom Bynum  
PO Box 247  
Plains, TX 79355-0247

Project Name: Ameredev South Facility  
Workorder: E209185  
Date Received: 10/3/2022 9:00:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/3/2022 9:00:00AM, under the Project Name: Ameredev South Facility.

The analytical test results summarized in this report with the Project Name: Ameredev South Facility 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 PO Box 247 Plains TX, 79355-0247	Project Name: Ameredev South Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 10/05/22 08:49
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS 1	E209185-01A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
CS 2	E209185-02A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
CS 3	E209185-03A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
CS 4	E209185-04A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
CS 5	E209185-05A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
CS 6	E209185-06A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
CSW 1	E209185-07A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
CSW 2	E209185-08A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
CSW 3	E209185-09A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
CSW 4	E209185-10A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.
CSW 5	E209185-11A	Soil	09/29/22	10/03/22	Glass Jar, 4 oz.



## Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Ameredev South Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 10/5/2022 8:49:34AM
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## CS 1

## E209185-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2240098
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: Bromofluorobenzene</i>	99.5 %	70-130		10/02/22	10/03/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	96.0 %	70-130		10/02/22	10/03/22	
<i>Surrogate: Toluene-d8</i>	104 %	70-130		10/02/22	10/03/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2240098
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: Bromofluorobenzene</i>	99.5 %	70-130		10/02/22	10/03/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	96.0 %	70-130		10/02/22	10/03/22	
<i>Surrogate: Toluene-d8</i>	104 %	70-130		10/02/22	10/03/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2241017
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
<i>Surrogate: n-Nonane</i>	88.1 %	50-200		10/03/22	10/03/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2241009
Chloride	ND	20.0	1	10/03/22	10/03/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Ameredev South Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 10/5/2022 8:49:34AM
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**CS 2**

**E209185-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2240098
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: Bromofluorobenzene</i>		96.8 %	70-130	10/02/22	10/03/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.0 %	70-130	10/02/22	10/03/22	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	10/02/22	10/03/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2240098
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: Bromofluorobenzene</i>		96.8 %	70-130	10/02/22	10/03/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.0 %	70-130	10/02/22	10/03/22	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	10/02/22	10/03/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2241017
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
<i>Surrogate: n-Nonane</i>		87.0 %	50-200	10/03/22	10/03/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2241009
Chloride	ND	20.0	1	10/03/22	10/03/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Ameredev South Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 10/5/2022 8:49:34AM
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**CS 3**

**E209185-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240098
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: Bromofluorobenzene</i>		100 %	70-130	10/02/22	10/03/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.9 %	70-130	10/02/22	10/03/22	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	10/02/22	10/03/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240098
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: Bromofluorobenzene</i>		100 %	70-130	10/02/22	10/03/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.9 %	70-130	10/02/22	10/03/22	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	10/02/22	10/03/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241017
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
<i>Surrogate: n-Nonane</i>		86.7 %	50-200	10/03/22	10/03/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241009
Chloride	ND	20.0	1	10/03/22	10/03/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Ameredev South Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 10/5/2022 8:49:34AM
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**CS 4**

**E209185-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2240098
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: Bromofluorobenzene</i>		97.4 %	70-130	10/02/22	10/03/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.7 %	70-130	10/02/22	10/03/22	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	10/02/22	10/03/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2240098
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: Bromofluorobenzene</i>		97.4 %	70-130	10/02/22	10/03/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.7 %	70-130	10/02/22	10/03/22	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	10/02/22	10/03/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2241017
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
<i>Surrogate: n-Nonane</i>		87.5 %	50-200	10/03/22	10/03/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2241009
Chloride	ND	20.0	1	10/03/22	10/03/22	





### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Ameredev South Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 10/5/2022 8:49:34AM
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**CS 5**

**E209185-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2240098
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: Bromofluorobenzene</i>		99.4 %	70-130	10/02/22	10/03/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.9 %	70-130	10/02/22	10/03/22	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	10/02/22	10/03/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2240098
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: Bromofluorobenzene</i>		99.4 %	70-130	10/02/22	10/03/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.9 %	70-130	10/02/22	10/03/22	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	10/02/22	10/03/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2241017
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
<i>Surrogate: n-Nonane</i>		90.9 %	50-200	10/03/22	10/03/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: KL		Batch: 2241009
Chloride	ND	20.0	1	10/03/22	10/03/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Ameredev South Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 10/5/2022 8:49:34AM
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**CS 6**

**E209185-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240098
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: Bromofluorobenzene</i>		97.7 %	70-130	10/02/22	10/03/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.3 %	70-130	10/02/22	10/03/22	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	10/02/22	10/03/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240098
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: Bromofluorobenzene</i>		97.7 %	70-130	10/02/22	10/03/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.3 %	70-130	10/02/22	10/03/22	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	10/02/22	10/03/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241017
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
<i>Surrogate: n-Nonane</i>		86.9 %	50-200	10/03/22	10/03/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241009
Chloride	ND	20.0	1	10/03/22	10/03/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Ameredev South Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 10/5/2022 8:49:34AM
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**CSW 1**

**E209185-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240098
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: Bromofluorobenzene</i>		99.4 %	70-130	10/02/22	10/03/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.7 %	70-130	10/02/22	10/03/22	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	10/02/22	10/03/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240098
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: Bromofluorobenzene</i>		99.4 %	70-130	10/02/22	10/03/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.7 %	70-130	10/02/22	10/03/22	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	10/02/22	10/03/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241017
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
<i>Surrogate: n-Nonane</i>		98.5 %	50-200	10/03/22	10/03/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241009
Chloride	ND	20.0	1	10/03/22	10/03/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Ameredev South Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 10/5/2022 8:49:34AM
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**CSW 2**

**E209185-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240098
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: Bromofluorobenzene</i>		97.9 %	70-130	10/02/22	10/03/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.7 %	70-130	10/02/22	10/03/22	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	10/02/22	10/03/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240098
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: Bromofluorobenzene</i>		97.9 %	70-130	10/02/22	10/03/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.7 %	70-130	10/02/22	10/03/22	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	10/02/22	10/03/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241017
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
<i>Surrogate: n-Nonane</i>		84.7 %	50-200	10/03/22	10/03/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241009
Chloride	ND	20.0	1	10/03/22	10/03/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Ameredev South Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 10/5/2022 8:49:34AM
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**CSW 3**

**E209185-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240098
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: Bromofluorobenzene</i>		99.5 %	70-130	10/02/22	10/03/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.5 %	70-130	10/02/22	10/03/22	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	10/02/22	10/03/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240098
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: Bromofluorobenzene</i>		99.5 %	70-130	10/02/22	10/03/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.5 %	70-130	10/02/22	10/03/22	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	10/02/22	10/03/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241017
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
<i>Surrogate: n-Nonane</i>		87.2 %	50-200	10/03/22	10/03/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241009
Chloride	ND	20.0	1	10/03/22	10/03/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Ameredev South Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 10/5/2022 8:49:34AM
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**CSW 4**

**E209185-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240098
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: Bromofluorobenzene</i>		96.7 %	70-130	10/02/22	10/03/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.0 %	70-130	10/02/22	10/03/22	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	10/02/22	10/03/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240098
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: Bromofluorobenzene</i>		96.7 %	70-130	10/02/22	10/03/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.0 %	70-130	10/02/22	10/03/22	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	10/02/22	10/03/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241017
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
<i>Surrogate: n-Nonane</i>		93.6 %	50-200	10/03/22	10/03/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241009
Chloride	ND	20.0	1	10/03/22	10/03/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Ameredev South Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 10/5/2022 8:49:34AM
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**CSW 5**

**E209185-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240098
Benzene	ND	0.0250	1	10/02/22	10/03/22	
Ethylbenzene	ND	0.0250	1	10/02/22	10/03/22	
Toluene	ND	0.0250	1	10/02/22	10/03/22	
o-Xylene	ND	0.0250	1	10/02/22	10/03/22	
p,m-Xylene	ND	0.0500	1	10/02/22	10/03/22	
Total Xylenes	ND	0.0250	1	10/02/22	10/03/22	
<i>Surrogate: Bromofluorobenzene</i>		95.9 %	70-130	10/02/22	10/03/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.3 %	70-130	10/02/22	10/03/22	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	10/02/22	10/03/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2240098
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/22	10/03/22	
<i>Surrogate: Bromofluorobenzene</i>		95.9 %	70-130	10/02/22	10/03/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.3 %	70-130	10/02/22	10/03/22	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	10/02/22	10/03/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2241017
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/22	10/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/22	10/03/22	
<i>Surrogate: n-Nonane</i>		90.6 %	50-200	10/03/22	10/03/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2241009
Chloride	ND	20.0	1	10/03/22	10/03/22	



### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Ameredev South Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 10/5/2022 8:49:34AM
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#### 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 (2240098-BLK1)**

Prepared: 10/02/22 Analyzed: 10/02/22

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							
<i>Surrogate: Bromofluorobenzene</i>	0.502		0.500		100	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.462		0.500		92.3	70-130			
<i>Surrogate: Toluene-d8</i>	0.523		0.500		105	70-130			

**LCS (2240098-BS1)**

Prepared: 10/02/22 Analyzed: 10/02/22

Benzene	2.28	0.0250	2.50		91.0	70-130			
Ethylbenzene	2.29	0.0250	2.50		91.5	70-130			
Toluene	2.26	0.0250	2.50		90.4	70-130			
o-Xylene	2.14	0.0250	2.50		85.5	70-130			
p,m-Xylene	4.27	0.0500	5.00		85.4	70-130			
Total Xylenes	6.41	0.0250	7.50		85.4	70-130			
<i>Surrogate: Bromofluorobenzene</i>	0.497		0.500		99.4	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.455		0.500		90.9	70-130			
<i>Surrogate: Toluene-d8</i>	0.527		0.500		105	70-130			

**LCS Dup (2240098-BSD1)**

Prepared: 10/02/22 Analyzed: 10/02/22

Benzene	2.24	0.0250	2.50		89.5	70-130	1.68	23	
Ethylbenzene	2.23	0.0250	2.50		89.4	70-130	2.37	27	
Toluene	2.20	0.0250	2.50		88.0	70-130	2.65	24	
o-Xylene	2.09	0.0250	2.50		83.6	70-130	2.25	27	
p,m-Xylene	4.17	0.0500	5.00		83.5	70-130	2.29	27	
Total Xylenes	6.26	0.0250	7.50		83.5	70-130	2.27	27	
<i>Surrogate: Bromofluorobenzene</i>	0.486		0.500		97.2	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.499		0.500		99.7	70-130			
<i>Surrogate: Toluene-d8</i>	0.527		0.500		105	70-130			





### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Ameredev South Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 10/5/2022 8:49:34AM
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#### Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2240098-BLK1)**

Prepared: 10/02/22 Analyzed: 10/02/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.3	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			

**LCS (2240098-BS2)**

Prepared: 10/02/22 Analyzed: 10/02/22

Gasoline Range Organics (C6-C10)	51.1	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			

**LCS Dup (2240098-BSD2)**

Prepared: 10/02/22 Analyzed: 10/02/22

Gasoline Range Organics (C6-C10)	55.9	20.0	50.0		112	70-130	8.84	20	
Surrogate: Bromofluorobenzene	0.494		0.500		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.2	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			



### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Ameredev South Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 10/5/2022 8:49:34AM
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#### 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 (2241017-BLK1)**

Prepared: 10/03/22 Analyzed: 10/03/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.4		50.0		94.8	50-200			

**LCS (2241017-BS1)**

Prepared: 10/03/22 Analyzed: 10/03/22

Diesel Range Organics (C10-C28)	207	25.0	250		82.9	38-132			
Surrogate: n-Nonane	46.3		50.0		92.6	50-200			

**Matrix Spike (2241017-MS1)**

Source: E209185-05

Prepared: 10/03/22 Analyzed: 10/03/22

Diesel Range Organics (C10-C28)	204	25.0	250	ND	81.5	38-132			
Surrogate: n-Nonane	45.0		50.0		90.0	50-200			

**Matrix Spike Dup (2241017-MSD1)**

Source: E209185-05

Prepared: 10/03/22 Analyzed: 10/03/22

Diesel Range Organics (C10-C28)	207	25.0	250	ND	83.0	38-132	1.80	20	
Surrogate: n-Nonane	44.0		50.0		88.1	50-200			



### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Ameredev South Facility Project Number: 21064-0001 Project Manager: Tom Bynum	<b>Reported:</b> 10/5/2022 8:49:34AM
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#### Anions by EPA 300.0/9056A

Analyst: KL

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 (2241009-BLK1)**

Prepared: 10/03/22 Analyzed: 10/03/22

Chloride	ND	20.0							
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**LCS (2241009-BS1)**

Prepared: 10/03/22 Analyzed: 10/03/22

Chloride	245	20.0	250		98.1	90-110			
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**LCS Dup (2241009-BSD1)**

Prepared: 10/03/22 Analyzed: 10/03/22

Chloride	245	20.0	250		98.2	90-110	0.0905	20	
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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:	Ameredev South Facility	
PO Box 247	Project Number:	21064-0001	<b>Reported:</b>
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/05/22 08:49

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.



<b>Client:</b> Pima Environmental Services <b>Project:</b> Amercedev South <b>Project Manager:</b> Tom Bynum <b>Address:</b> 5614 N. Lovington Hwy. <b>City, State, Zip:</b> Hobbs, NM, 88240 <b>Phone:</b> 580-748-1613 <b>Email:</b> tom@pimaoil.com <b>Report due by:</b>		<b>Bill To</b> <b>Attention:</b> <b>Address:</b> <b>City, State, Zip:</b> <b>Phone:</b> <b>Email:</b> <b>Pima Project #</b> 20-1		<b>Lab Use Only</b> <b>Lab WO#</b> E 209185 <b>Job Number</b> 21064-0001		<b>TAT</b> 1D <input checked="" type="checkbox"/> 2D <input type="checkbox"/> 3D <input type="checkbox"/> Standard <input type="checkbox"/>		<b>EPA Program</b> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> RCRA <input type="checkbox"/>	
				<b>Analysis and Method</b>		<b>State</b> NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/>			

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
10:00	9/29/22	S		CS 1	1							X		
10:05				CS 2	2									
10:10				CS 3	3									
10:15				CS 4	4									
10:20				CS 5	5									
10:25				CS 6	6									
10:30				CSW1	7									
10:35				CSW2	8									
10:40				CSW3	9									
10:45				CSW4	10									

**Additional Instructions:**

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	<b>Lab Use Only</b> Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4
<i>[Signature]</i>	9/30/22	2:40	<i>[Signature]</i>	9-30-22	3:15	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>[Signature]</i>	9-30-22	4:15	<i>[Signature]</i>	10/3/22	9:00	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

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: 10/3/2022 9:56:19AM

**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:	10/03/22 09:00	Work Order ID:	E209185
Phone:	(575) 631-6977	Date Logged In:	09/30/22 17:05	Logged In By:	Alexa Michaels
Email:	tom@pimaoil.com	Due Date:	10/03/22 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

Carrier: UPS

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

**Comments/Resolution**

**Sample Turn Around Time (TAT)**

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

**Sample Cooler**

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

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

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

**Sample Container**

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

**Field Label**

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

**Sample Preservation**

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

**Multiphase Sample Matrix**

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

**Subcontract Laboratory**

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

**Client Instruction**

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

Date



envirotech Inc.

Project Information

Chain of Custody

**Ameredeo South Facility - per Client 10/5/22 CC**

Client: Pima Environmental Services		Bill To		Lab Use Only		TAT				EPA Program						
Project: <u>Ameredeo South</u>		Attention:		Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Tom Bynum		Address:		E 209185	21004-0001	X										
Address: 5614 N. Lovington Hwy.		City, State, Zip		Analysis and Method								RCRA				
City, State, Zip Hobbs, NM, 88240		Phone:		DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	State				
Phone: 580-748-1613		Email:										NM	CO	UT	AZ	TX
Email: tom@pimaoil.com		Pima Project # 20-1										X				
Report due by:		Remarks														

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks		
10:00	9/29/22	S		CS 1	1							X				
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10:40				CSW3	9											
10:45				CSW4	10											

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Relinquished by: (Signature)		Date	Time	Received by: (Signature)	Date	Time	Lab Use Only				
<i>[Signature]</i>		9/30/22	2:40	<i>[Signature]</i>	9-30-22	3:11	Received on ice: <input checked="" type="checkbox"/> N				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)	Date	Time	T1	T2	T3	AVG Temp °C	
<i>[Signature]</i>		9-30-22	4:15	<i>[Signature]</i>	10/3/22	9:00				4	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)	Date	Time					

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

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

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Project Information

Chain of Custody

Ameredeve South Facility - Per Client 10/5/22 CC

Client: Pima Environmental Services		Bill To		Lab Use Only				TAT				EPA Program					
Project: Ameredeve South		Attention:		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Tom Bynum		Address:		E209185		21064-0001		X									
Address: 5614 N. Lovington Hwy.		City, State, Zip		Analysis and Method													
City, State, Zip Hobbs, NM, 88240		Phone:		DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0					RCRA			
Phone: 580-748-1613		Email:								BGDOC NM	BGDOC TX	State					
Email: tom@pimaoil.com		Pima Project # 20-1										NM	CO	UT	AZ	TX	
Report due by:												X					Remarks

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
10:50	9/29/22	S		OSW5	11							X		

Additional Instructions:

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<i>[Signature]</i>	9/30/22	2:40	<i>[Signature]</i>	9-30-22	3:15	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>[Signature]</i>	9-30-22	4:5	<i>[Signature]</i>	10/3/22	9:00	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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

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

CONDITIONS

Action 153065

**CONDITIONS**

Operator: SCM Operations, LLC 5825 N Sam Houston Pkwy W Houston, TX 77086	OGRID: 330368
	Action Number: 153065
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	11/18/2022