



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

September 21st, 2022

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

Re: Site Assessment, Remediation, and Closure Report
Volleyball State #1
API No. 30-005-63887
GPS: Latitude 33.3012657 Longitude -104.3045883
UL "P", Sec. 02, T12S, R26E
Chaves County, NM
NMOCD Ref. No. NAPP2222836453

Pima Environmental Services, LLC (Pima) has been contracted by Armstrong Energy Corporation to perform a spill assessment, remediation activities, and submit this closure report for a crude oil release that occurred at the Volleyball State #001. The initial C-141 was submitted on August 16th, 2022 (Appendix C). This incident was assigned Incident ID NAPP2222836453, by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Volleyball State #001 is located approximately nine (9) miles east of Midway, NM. This spill site is in Unit P, Section 02, Township 1S, Range 26E, Latitude 33.3012657, Longitude -104.3045883, Chaves County, NM. Figure 1 references a location map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Artesia Group (Guadalupean). The soil in this area is made up of Holloman Gypsum land complex, 3 to 5 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 high potential for karst geology to be present around the Armstrong Energy Corporation (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 130 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 109 feet BGS. The closest waterway is the Pecos River located approximately 2.93 miles to the northwest of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29

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

nAPP222836453: On August 16th, 2022, a hung dump valve inside a separator caused an overflow of an oil tank. The affected area measures approximately 2,278 ft² on the surface of the hard pack caliche soil. Approximately 48 barrels of crude oil was released, 25 barrels were recovered, all remained on pad.

Site Assessment and Soil Sampling Results

On August 16th, 2022, Armstrong Energy Corporation mobilized personnel to the site to assess the area. Armstrong immediately scrapped up the affected area using a backhoe and transported the contaminated material to an NMOCD approved landfill for disposal.

On August 22nd, 2022, Pima Environmental Services mobilized personnel to the site to conduct delineation activities. Pima sampled the area between the point of release and the westernmost extent of the engineered pad. Laboratory results of this sampling event can be found in the following data table.

8-22-22 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
ARMSTRONG ENERGY CORPORATION - VOLLEYBALL ST #1								
Sample Date: 8-22-22		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
SW 1	6"	ND	ND	ND	ND	ND	0	46.6
SW 2	6"	ND	ND	ND	ND	ND	0	94.2
SW 3	6"	ND	ND	ND	ND	ND	0	49.6
SW 4	6"	ND	ND	ND	ND	ND	0	129
SW 5	6"	ND	ND	ND	686	50.6	736.6	417
SW 6	6"	ND	ND	ND	ND	ND	0	27.6
SW 7	6"	ND	ND	ND	ND	ND	0	52.5
SW 8	6"	ND	ND	ND	ND	ND	0	81.4
S-1	6"	ND	ND	ND	ND	ND	0	ND
	1'	ND	ND	ND	ND	ND	0	26.2
S-2	6"	ND	ND	ND	ND	ND	0	ND
	1'	ND	ND	ND	ND	ND	0	ND
S-3	6"	ND	ND	ND	ND	ND	0	ND
	1'	ND	ND	ND	ND	ND	0	20.4
S-4	6"	ND	ND	ND	ND	ND	0	ND
	1'	ND	ND	ND	ND	ND	0	ND
BG 1	6"	ND	ND	ND	ND	ND	0	ND
BG 2	6"	ND	ND	ND	ND	ND	0	ND

Nd: Non-Detect

Remediation Activities

On September 10th, 2022, Pima mobilized personnel and equipment to conduct remedial activities. We scraped the area overlapping soil samples (CS1) and (CSW1-CSW4) to a depth of one (1) foot bgs. Photographic documentation can be found in Appendix D.

On September 10th, 2022, after submitting the 48-hour notification (Appendix C), Pima collected confirmation samples. The laboratory results of this sampling event can be found in the following data table.

9-10-22 Confirmation Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
ARMSTRONG ENERGY CORPORATION - VOLLEYBALL ST #1								
Sample Date: 9/10/2022		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
CS1	1'	ND	ND	ND	ND	ND	0	ND
CSW 1	1'	ND	ND	ND	ND	ND	0	ND
CSW 2	1'	ND	ND	ND	ND	ND	0	ND
CSW 3	1'	ND	ND	ND	ND	ND	0	ND
CSW 4	1'	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

Closure Request

After careful review, Pima requests that this incident, nAPP2222836453, be closed. Armstrong Energy Corporation 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.

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 – C-141 Form and 48-Hour Notification
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports



Pima Environmental Services

Figures:

1-Location Map

2-Topographic Map

3-Karst Map


4-Site Map

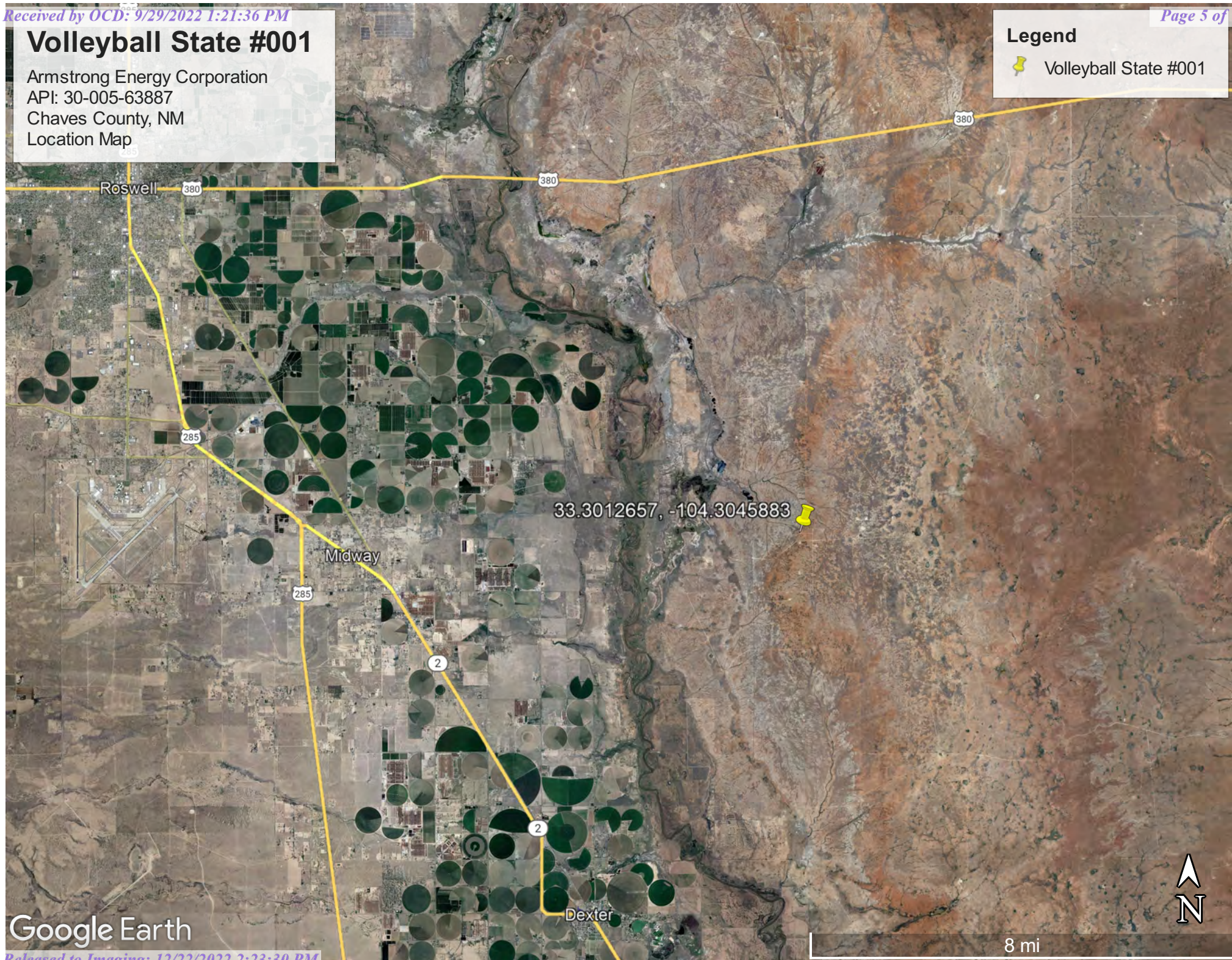
5-Confirmation Site Map

Volleyball State #001

Armstrong Energy Corporation
API: 30-005-63887
Chaves County, NM
Location Map

Legend

 Volleyball State #001




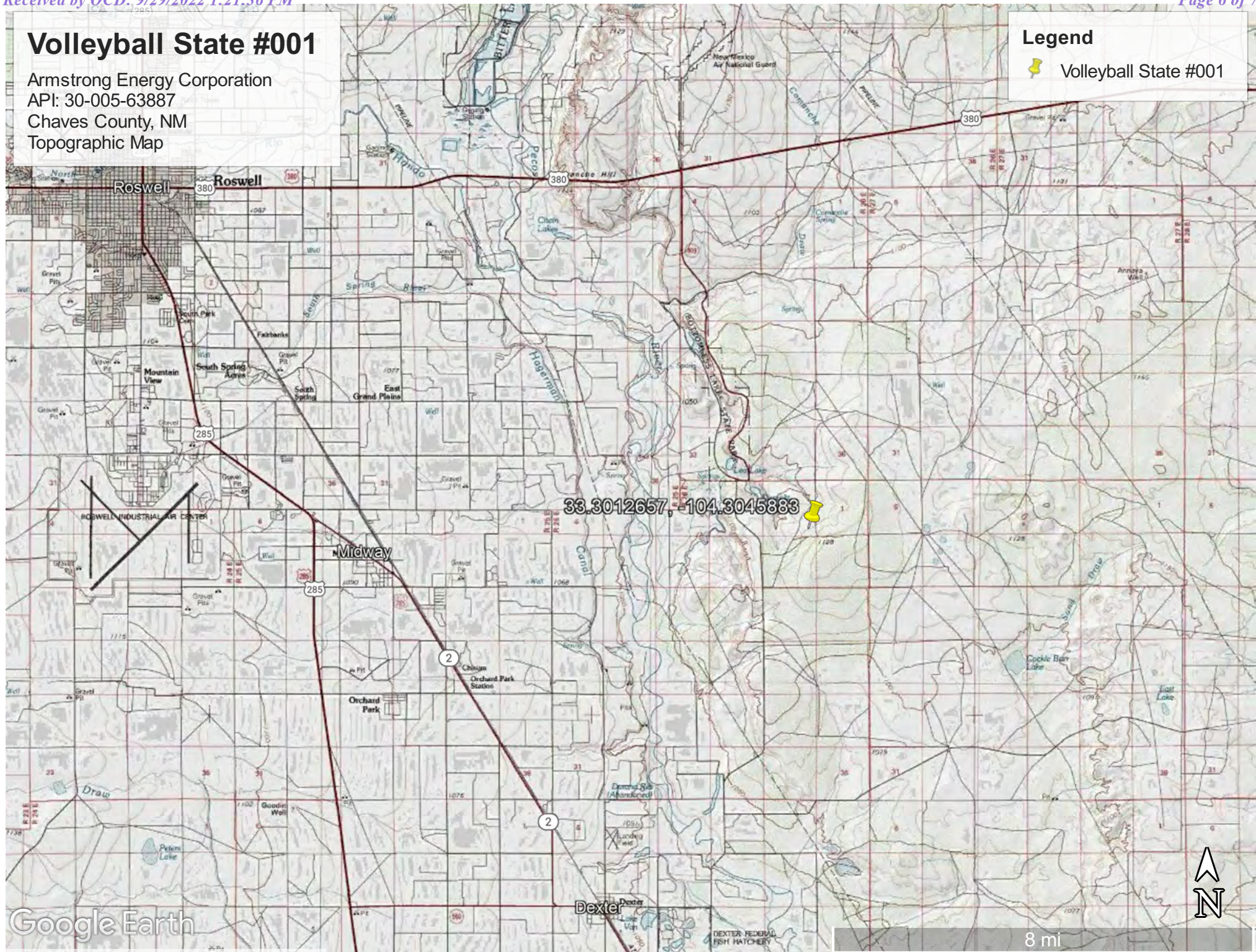
Google Earth

Volleyball State #001

Armstrong Energy Corporation
API: 30-005-63887
Chaves County, NM
Topographic Map

Legend

 Volleyball State #001

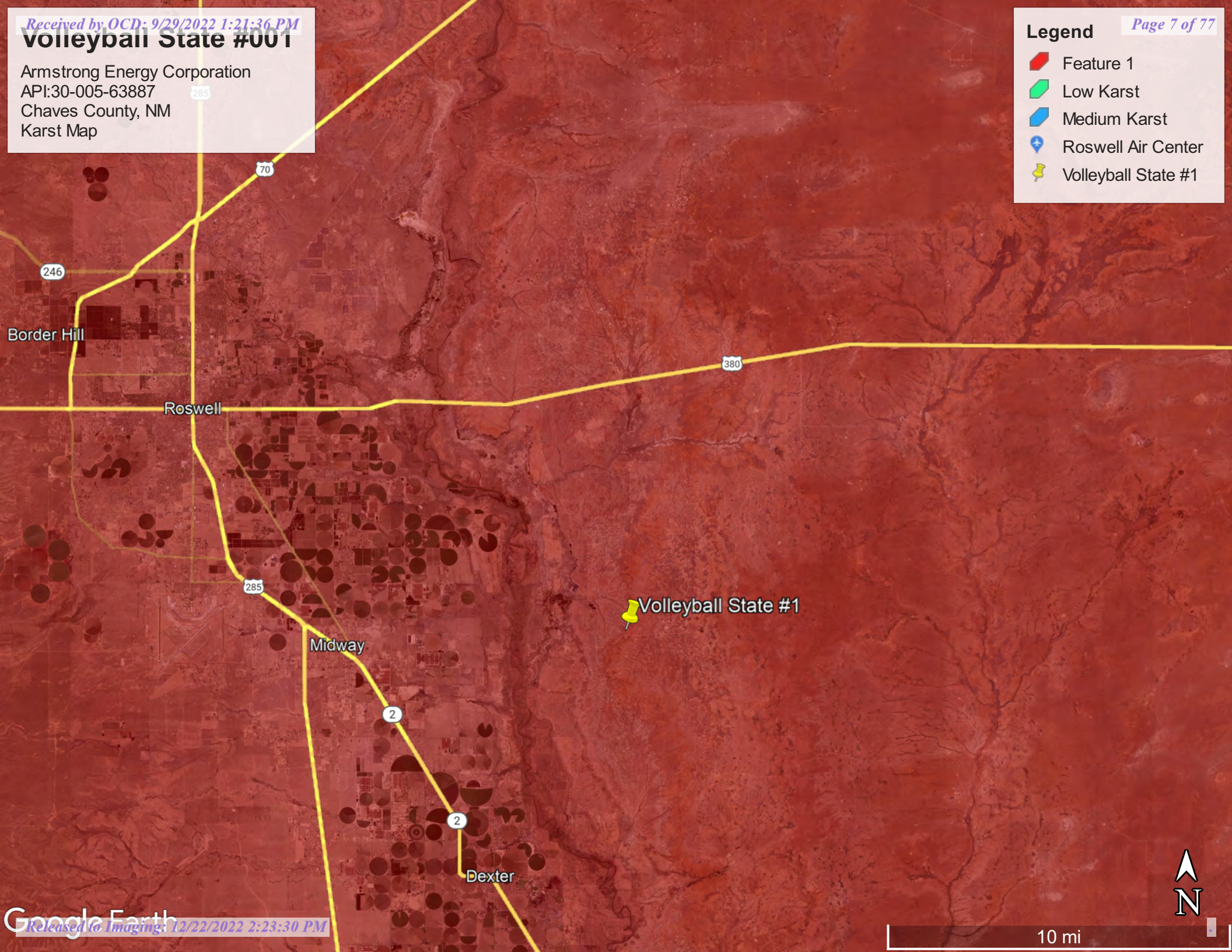


Volleyball State #001

Armstrong Energy Corporation
API:30-005-63887
Chaves County, NM
Karst Map



Legend

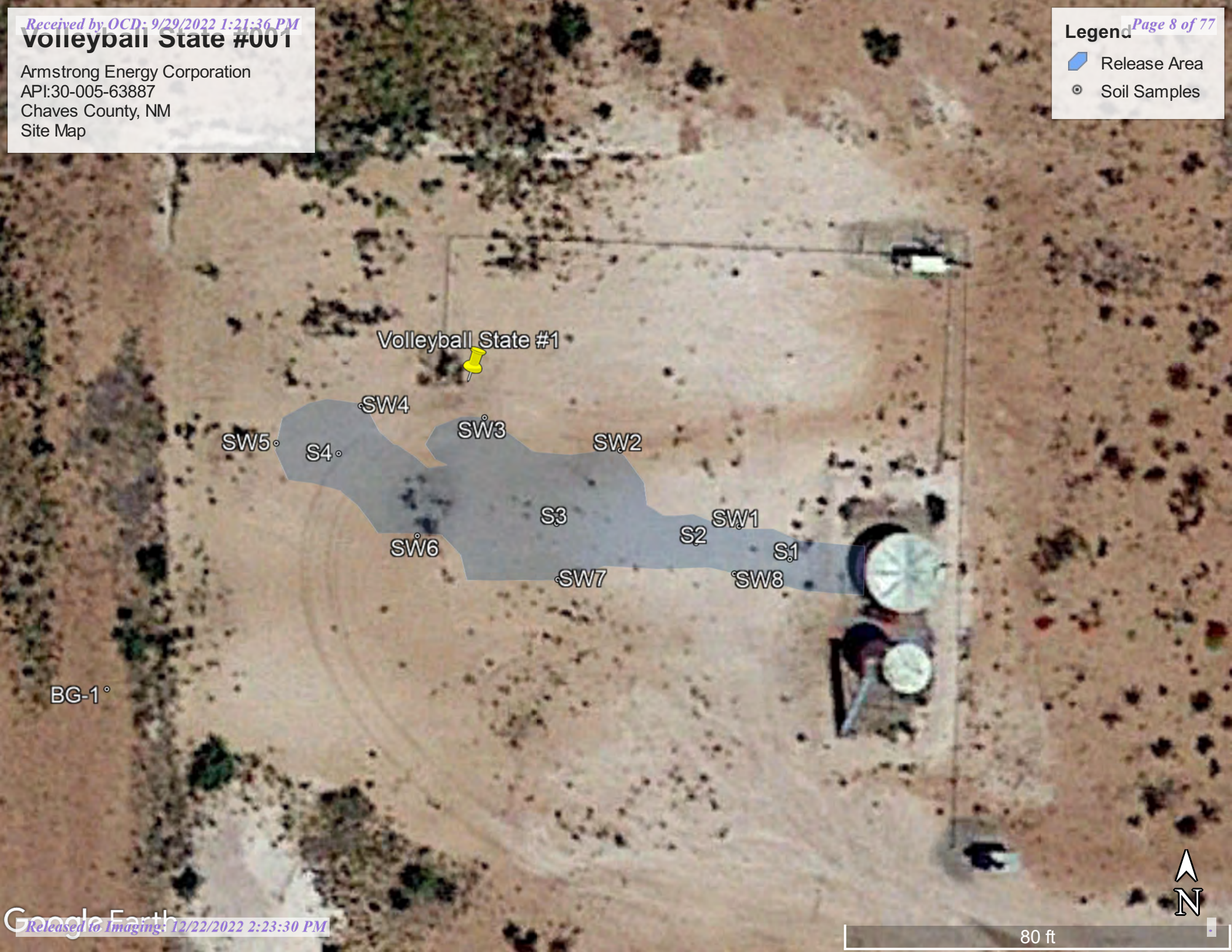
- Feature 1
- Low Karst
- Medium Karst
- Roswell Air Center
- Volleyball State #1



Volleyball State #001

Armstrong Energy Corporation
API:30-005-63887
Chaves County, NM
Site Map

-  Release Area
-  Soil Samples



Volleyball State #001

Armstrong Energy Corporation
API:30-005-63887
Chaves County, NM
Confirmation Map

Legend

- Confirmation Samples
- Excavated Area
- Release Area

CSW1
CSW4
CS1
CSW2
CSW3



60 ft



Pima Environmental Services

Appendix A

Water Surveys:

OSE

USGS



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
RA 10101		RA	CH	4	3	4	12	12S	26E	566070	3683208*	2151	300	130	170
RA 06116.1		RA	CH				03	12S	26E	562515	3685481*	2301	75	35	40
RA 06116 REPAR		RA	CH				03	12S	26E	562515	3685481*	2301	100	47	53
RA 02736		RA	CH	2	1	03	12S	26E	562320	3686083*		2695	203		
RA 06485		RA	CH	4	3	1	10	12S	26E	562027	3683978*	2867	133	68	65
RA 06315		RA	CH	1	4	1	15	12S	26E	562247	3682568*	3416	194	52	142
RA 01557 -S-2	O	RA	CH				27	11S	26E	562518	3688702*	4403	105	18	87
RA 11229 POD1		RA	CH	2	2	2	26	11S	26E	564824	3689451*	4550	49	30	19
RA 05816		RA	CH	4	2	4	05	12S	26E	560001	3685172*	4749	26	6	20
RA 05317		RA	CH			3	28	11S	26E	561228	3688327*	4907	220		
RA 04905		RA	CH	2	1	2	21	12S	26E	561253	3681362*	4970	70	15	55
RA 04575		RA	CH			4	25	11S	25E	560445	3687451*	4996	87	10	77

Average Depth to Water: **41 feet**

Minimum Depth: **6 feet**

Maximum Depth: **130 feet**

Record Count: 12

UTMNAD83 Radius Search (in meters):

Easting (X): 564742.3

Northing (Y): 3684901.21

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.

8/24/22 9:21 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 =

- 331759104171401

Minimum number of levels = 1

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

USGS 331759104171401 12S.26E.01.44341

Available data for this site

Groundwater: Field measurements

GO

Chaves County, New Mexico

Hydrologic Unit Code 13060007

Latitude 33°17'59", Longitude 104°17'14" NAD27

Land-surface elevation 3,746 feet above NAVD88

The depth of the well is 310 feet below land surface.

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

This well is completed in the Artesia Group (313ARTS) local aquifer.

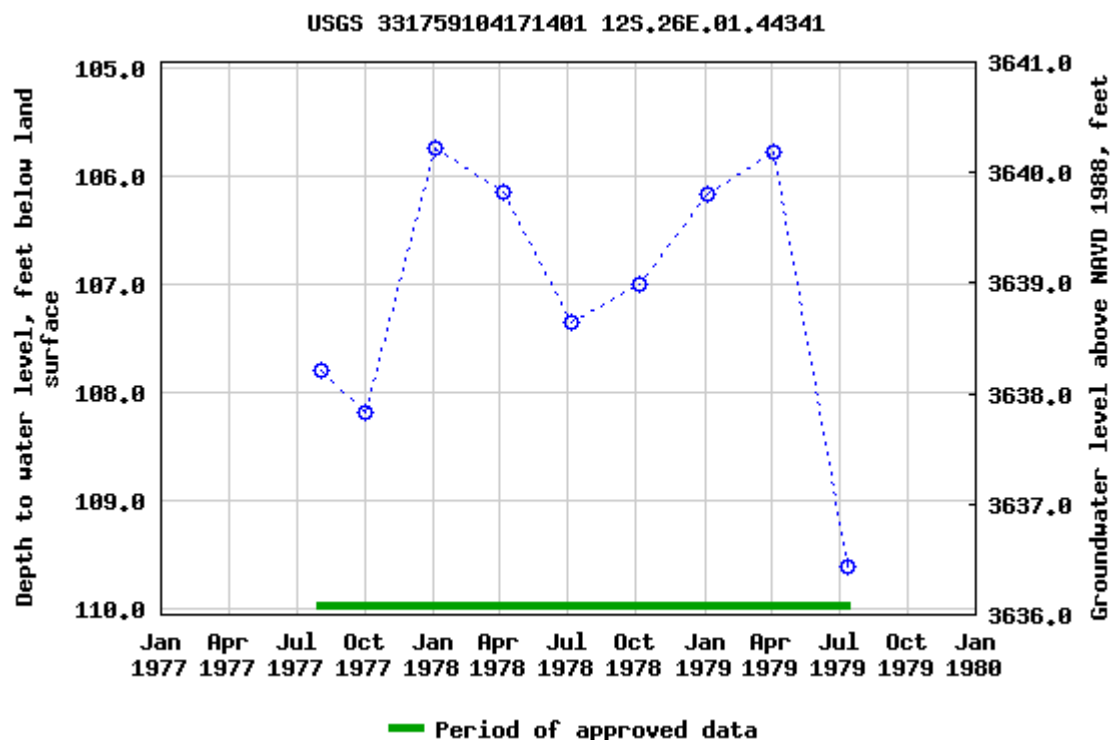
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



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

[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](#)

[News](#)

[Accessibility](#)

[FOIA](#)

[Privacy](#)

[Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

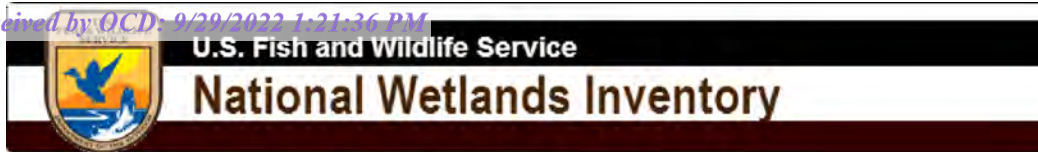
URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



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

Page Last Modified: 2022-08-24 11:17:12 EDT

0.55 0.47 nadww01



Wetlands Map



September 13, 2022

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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



Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Map Unit Description: Holloman-Gypsum land complex, 3 to 5 percent slopes---Chaves County, New Mexico, Southern Part

Chaves County, New Mexico, Southern Part

HrC—Holloman-Gypsum land complex, 3 to 5 percent slopes

Map Unit Setting

National map unit symbol: 1w7b

Elevation: 2,840 to 4,500 feet

Mean annual precipitation: 8 to 12 inches

Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 195 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Holloman and similar soils: 45 percent

Gypsum land: 40 percent

Minor components: 15 percent

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

Description of Holloman

Setting

Landform: Plains, basin floors, valley floors

Landform position (three-dimensional): Riser, rise

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Mixed alluvium and/or eolian deposits derived from sedimentary rock

Typical profile

H1 - 0 to 6 inches: loam

H2 - 6 to 10 inches: gypsiferous material

Properties and qualities

Slope: 3 to 5 percent

Depth to restrictive feature: 4 to 20 inches to paralithic bedrock

Drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 25 percent

Gypsum, maximum content: 75 percent

Maximum salinity: Slightly saline to strongly saline (4.0 to 16.0 mmhos/cm)

Sodium adsorption ratio, maximum: 6.0

Available water supply, 0 to 60 inches: Very low (about 0.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Map Unit Description: Holloman-Gypsum land complex, 3 to 5 percent slopes---Chaves County, New Mexico, Southern Part

Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R042XC006NM - Gyp Upland
Hydric soil rating: No

Description of Gypsum Land

Setting

Landform: Plains, basin floors, valley floors
Landform position (three-dimensional): Riser, rise
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Mixed alluvium and/or eolian deposits derived from sedimentary rock

Typical profile

H1 - 0 to 60 inches: gypsiferous material

Properties and qualities

Slope: 3 to 5 percent
Depth to restrictive feature: 0 inches to paralithic bedrock
Capacity of the most limiting layer to transmit water (Ksat): High
(1.98 to 5.95 in/hr)
Calcium carbonate, maximum content: 25 percent
Gypsum, maximum content: 80 percent
Maximum salinity: Moderately saline to strongly saline (8.0 to 16.0 mmhos/cm)
Sodium adsorption ratio, maximum: 6.0

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8s
Hydric soil rating: No

Minor Components

Balmorhea

Percent of map unit: 15 percent
Ecological site: R042XC033NM - Salty Bottomland
Hydric soil rating: No

Data Source Information

Soil Survey Area: Chaves County, New Mexico, Southern Part
Survey Area Data: Version 16, Sep 12, 2021

National Flood Hazard Layer FIRMette



104°18'35"W 33°18'20"N



Legend

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

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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/24/2022 at 11:22 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



Pima Environmental Services

Appendix C

C-141 Form

48-Hour Notification

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2222836453
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Armstrong Energy Corporation	OGRID	1092
Contact Name	Jeffery Tew	Contact Telephone	575-623-2999
Contact email	jtew@aecnm.com	Incident # (assigned by OCD)	
Contact mailing address	P.O Box 1973 Roswell, NM 88202		

Location of Release Source

Latitude 33.3012657 Longitude -104.3045883
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Volleyball State #001	Site Type	Production Facility
Date Release Discovered	08/16/2022	API# (if applicable)	30-005-63887

Unit Letter	Section	Township	Range	County
P	02	12S	26E	Chaves

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 48	Volume Recovered (bbls) 25
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release


Suspected hung dump valve in separator caused overflow of oil tank.

Incident ID	nAPP2222836453
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Unauthorized release of a volume, excluding gases, of 25 barrels or more
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, by Kyle Alpers to Kerry Fortner via phone on 8/16/2022 at 9am.	

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: N/A	
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: Jeffery Tew	Title: Operations Engineer
Signature: 	Date: 8/16/2022
email: jtew@aecnm.com	Telephone: 575-420-7600
<u>OCD Only</u>	
Received by: Jocelyn Harimon	Date: 08/16/2022

Incident ID	nAPP2222836453
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>130</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

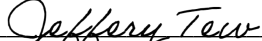
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods,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

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2222836453
District RP	
Facility ID	
Application ID	

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

Printed Name: Jeffery Tew Title: Operations Engineer

Signature:  Date: 9/29/2022

email: jtew@aecnm.com Telephone: 575-420-7600

OCD Only

Received by: Jocelyn Harimon Date: 09/29/2022

Incident ID	nAPP2222836453
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Jeffery Tew Title: Operations Engineer

Signature: Jeffery Tew Date: 9/29/2022

email: jtew@aecn.com Telephone: 575-420-7600

OCD Only

Received by: Jocelyn Harimon Date: 09/29/2022

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

Closure Approved by: Jocelyn Harimon Date: 12/22/2022

Printed Name: Jocelyn Harimon Title: Environmental Specialist

Sebastian@pimaoil.com

From: sebastian@pimaoil.com
Sent: Thursday, September 8, 2022 3:50 PM
To: ocdonline@state.nm.us
Cc: kalpers@aecnrm.com; tom@pimaoil.com; 'Gio PimaOil'
Subject: Volleyball State #001 48-Hour Notification

All,

Pima Environmental would like to notify you that we will begin collecting confirmation samples at the Volleyball State #001 for incident NAPP2222836453. Pima personnel are scheduled to be on site for this sampling event at approximately 8:00 a.m. on Saturday, September 10th, 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
619-721-4813 cell





Pima Environmental Services

Appendix D

Photographic Documentation



**SITE PHOTOGRAPHS
PIMA ENVIRONMENTAL**

Volleyball State #1

Pre- Excavation





Post-Excavation





Pima Environmental Services

Appendix E

Laboratory Reports

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Volley Ball St #1

Work Order: E208138

Job Number: 22093-0001

Received: 8/25/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/31/22

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: 8/31/22

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Volley Ball St #1
Workorder: E208138
Date Received: 8/25/2022 10:16:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/25/2022 10:16:00AM, under the Project Name: Volley Ball St #1.

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

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

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

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

Respectfully,

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

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

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

Field Offices:

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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
SW1	6
SW2	7
SW3	8
SW4	9
SW5	10
SW6	11
SW7	12
SW8	13
S.1 1/2'	14
S.1 1'	15
S.2 1/2'	16
S.2 1'	17
S.3 1/2'	18
S.3 1'	19
S.4 1/2'	20
S.4 1'	21
BG1	22
BG2	23
QC Summary Data	24
QC - Volatile Organic Compounds by EPA 8260B	24

Table of Contents (continued)

QC - Nonhalogenated Organics by EPA 8015D - GRO	25
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	26
QC - Anions by EPA 300.0/9056A	27
Definitions and Notes	28
Chain of Custody etc.	29

Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Volley Ball St #1	Reported:
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	08/31/22 12:16

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW1	E208138-01A	Soil	08/22/22	08/25/22	Glass Jar, 4 oz.
SW2	E208138-02A	Soil	08/22/22	08/25/22	Glass Jar, 4 oz.
SW3	E208138-03A	Soil	08/22/22	08/25/22	Glass Jar, 4 oz.
SW4	E208138-04A	Soil	08/22/22	08/25/22	Glass Jar, 4 oz.
SW5	E208138-05A	Soil	08/22/22	08/25/22	Glass Jar, 4 oz.
SW6	E208138-06A	Soil	08/22/22	08/25/22	Glass Jar, 4 oz.
SW7	E208138-07A	Soil	08/22/22	08/25/22	Glass Jar, 4 oz.
SW8	E208138-08A	Soil	08/22/22	08/25/22	Glass Jar, 4 oz.
S.1 1/2'	E208138-09A	Soil	08/22/22	08/25/22	Glass Jar, 4 oz.
S.1 1'	E208138-10A	Soil	08/22/22	08/25/22	Glass Jar, 4 oz.
S.2 1/2'	E208138-11A	Soil	08/22/22	08/25/22	Glass Jar, 4 oz.
S.2 1'	E208138-12A	Soil	08/22/22	08/25/22	Glass Jar, 4 oz.
S.3 1/2'	E208138-13A	Soil	08/22/22	08/25/22	Glass Jar, 4 oz.
S.3 1'	E208138-14A	Soil	08/22/22	08/25/22	Glass Jar, 4 oz.
S.4 1/2'	E208138-15A	Soil	08/22/22	08/25/22	Glass Jar, 4 oz.
S.4 1'	E208138-16A	Soil	08/22/22	08/25/22	Glass Jar, 4 oz.
BG1	E208138-17A	Soil	08/22/22	08/25/22	Glass Jar, 4 oz.
BG2	E208138-18A	Soil	08/22/22	08/25/22	Glass Jar, 4 oz.



Sample Data

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

Project Name: Volley Ball St #1
Project Number: 22093-0001
Project Manager: Tom Bynum

Reported:
8/31/2022 12:16:39PM

SW1

E208138-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Benzene	ND	0.0250	1	08/25/22	08/26/22	
Ethylbenzene	ND	0.0250	1	08/25/22	08/26/22	
Toluene	ND	0.0250	1	08/25/22	08/26/22	
o-Xylene	ND	0.0250	1	08/25/22	08/26/22	
p,m-Xylene	ND	0.0500	1	08/25/22	08/26/22	
Total Xylenes	ND	0.0250	1	08/25/22	08/26/22	
<i>Surrogate: Bromofluorobenzene</i>	94.2 %	70-130		08/25/22	08/26/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	99.1 %	70-130		08/25/22	08/26/22	
<i>Surrogate: Toluene-d8</i>	98.2 %	70-130		08/25/22	08/26/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/22	08/26/22	
<i>Surrogate: Bromofluorobenzene</i>	94.2 %	70-130		08/25/22	08/26/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	99.1 %	70-130		08/25/22	08/26/22	
<i>Surrogate: Toluene-d8</i>	98.2 %	70-130		08/25/22	08/26/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2235051
Diesel Range Organics (C10-C28)	ND	25.0	1	08/25/22	08/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/25/22	08/25/22	
<i>Surrogate: n-Nonane</i>	97.1 %	50-200		08/25/22	08/25/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2235044
Chloride	46.6	20.0	1	08/25/22	08/26/22	



Sample Data

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

Project Name: Volley Ball St #1
Project Number: 22093-0001
Project Manager: Tom Bynum

Reported:
8/31/2022 12:16:39PM

SW2

E208138-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Benzene	ND	0.0250	1	08/25/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/25/22	08/30/22	
Toluene	ND	0.0250	1	08/25/22	08/30/22	
o-Xylene	ND	0.0250	1	08/25/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/25/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	93.7 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	98.4 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	93.7 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	98.4 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2235051
Diesel Range Organics (C10-C28)	ND	25.0	1	08/25/22	08/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/25/22	08/25/22	
Surrogate: n-Nonane	94.8 %	50-200		08/25/22	08/25/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2235044
Chloride	94.2	20.0	1	08/25/22	08/25/22	



Sample Data

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

Project Name: Volley Ball St #1
Project Number: 22093-0001
Project Manager: Tom Bynum

Reported:
8/31/2022 12:16:39PM

SW3

E208138-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Benzene	ND	0.0250	1	08/25/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/25/22	08/30/22	
Toluene	ND	0.0250	1	08/25/22	08/30/22	
o-Xylene	ND	0.0250	1	08/25/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/25/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	93.7 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	97.3 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	93.7 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	97.3 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2235051
Diesel Range Organics (C10-C28)	ND	25.0	1	08/25/22	08/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/25/22	08/25/22	
Surrogate: n-Nonane	88.5 %	50-200		08/25/22	08/25/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2235044
Chloride	49.6	20.0	1	08/25/22	08/25/22	



Sample Data

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

Project Name: Volley Ball St #1
Project Number: 22093-0001
Project Manager: Tom Bynum

Reported:
8/31/2022 12:16:39PM

SW4

E208138-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Benzene	ND	0.0250	1	08/25/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/25/22	08/30/22	
Toluene	ND	0.0250	1	08/25/22	08/30/22	
o-Xylene	ND	0.0250	1	08/25/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/25/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	90.8 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	95.9 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	90.8 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	95.9 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2235051
Diesel Range Organics (C10-C28)	ND	25.0	1	08/25/22	08/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/25/22	08/25/22	
Surrogate: n-Nonane	92.0 %	50-200		08/25/22	08/25/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2235044
Chloride	129	20.0	1	08/25/22	08/25/22	



Sample Data

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

Project Name: Volley Ball St #1
Project Number: 22093-0001
Project Manager: Tom Bynum

Reported:
8/31/2022 12:16:39PM

SW5

E208138-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Benzene	ND	0.0250	1	08/25/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/25/22	08/30/22	
Toluene	ND	0.0250	1	08/25/22	08/30/22	
o-Xylene	ND	0.0250	1	08/25/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/25/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	92.7 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	99.2 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	92.7 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	99.2 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2235051
Diesel Range Organics (C10-C28)	686	25.0	1	08/25/22	08/25/22	
Oil Range Organics (C28-C36)	50.6	50.0	1	08/25/22	08/25/22	
Surrogate: n-Nonane	99.9 %	50-200		08/25/22	08/25/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2235044
Chloride	417	200	10	08/25/22	08/25/22	



Sample Data

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

Project Name: Volley Ball St #1
Project Number: 22093-0001
Project Manager: Tom Bynum

Reported:
8/31/2022 12:16:39PM

SW6

E208138-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Benzene	ND	0.0250	1	08/25/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/25/22	08/30/22	
Toluene	ND	0.0250	1	08/25/22	08/30/22	
o-Xylene	ND	0.0250	1	08/25/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/25/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	94.9 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	97.7 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	94.9 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	97.7 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2235051
Diesel Range Organics (C10-C28)	ND	25.0	1	08/25/22	08/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/25/22	08/25/22	
Surrogate: n-Nonane	96.9 %	50-200		08/25/22	08/25/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2235044
Chloride	27.6	20.0	1	08/25/22	08/26/22	



Sample Data

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

Project Name: Volley Ball St #1
Project Number: 22093-0001
Project Manager: Tom Bynum

Reported:
8/31/2022 12:16:39PM

SW7

E208138-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Benzene	ND	0.0250	1	08/25/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/25/22	08/30/22	
Toluene	ND	0.0250	1	08/25/22	08/30/22	
o-Xylene	ND	0.0250	1	08/25/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/25/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	91.3 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	96.6 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	91.3 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	96.6 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2235051
Diesel Range Organics (C10-C28)	ND	25.0	1	08/25/22	08/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/25/22	08/25/22	
Surrogate: n-Nonane	97.8 %	50-200		08/25/22	08/25/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2235044
Chloride	52.5	20.0	1	08/25/22	08/26/22	



Sample Data

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

Project Name: Volley Ball St #1
Project Number: 22093-0001
Project Manager: Tom Bynum

Reported:
8/31/2022 12:16:39PM

SW8

E208138-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Benzene	ND	0.0250	1	08/25/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/25/22	08/30/22	
Toluene	ND	0.0250	1	08/25/22	08/30/22	
o-Xylene	ND	0.0250	1	08/25/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/25/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	91.4 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	96.7 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	91.4 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	96.7 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2235051
Diesel Range Organics (C10-C28)	ND	25.0	1	08/25/22	08/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/25/22	08/26/22	
Surrogate: n-Nonane	93.2 %	50-200		08/25/22	08/26/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2235044
Chloride	81.4	20.0	1	08/25/22	08/26/22	



Sample Data

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

Project Name: Volley Ball St #1
Project Number: 22093-0001
Project Manager: Tom Bynum

Reported:
8/31/2022 12:16:39PM

S.1 1/2'

E208138-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Benzene	ND	0.0250	1	08/25/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/25/22	08/30/22	
Toluene	ND	0.0250	1	08/25/22	08/30/22	
o-Xylene	ND	0.0250	1	08/25/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/25/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	92.9 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	93.2 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	96.0 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	92.9 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	93.2 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	96.0 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2235051
Diesel Range Organics (C10-C28)	ND	25.0	1	08/25/22	08/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/25/22	08/26/22	
Surrogate: n-Nonane	100 %	50-200		08/25/22	08/26/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2235044
Chloride	ND	20.0	1	08/25/22	08/26/22	



Sample Data

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

Project Name: Volley Ball St #1
Project Number: 22093-0001
Project Manager: Tom Bynum

Reported:
8/31/2022 12:16:39PM

S.1 1'

E208138-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Benzene	ND	0.0250	1	08/25/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/25/22	08/30/22	
Toluene	ND	0.0250	1	08/25/22	08/30/22	
o-Xylene	ND	0.0250	1	08/25/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/25/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	94.4 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	96.4 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	94.4 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	96.4 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2235051
Diesel Range Organics (C10-C28)	ND	25.0	1	08/25/22	08/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/25/22	08/26/22	
Surrogate: n-Nonane	97.9 %	50-200		08/25/22	08/26/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2235044
Chloride	26.2	20.0	1	08/25/22	08/26/22	



Sample Data

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

Project Name: Volley Ball St #1
Project Number: 22093-0001
Project Manager: Tom Bynum

Reported:
8/31/2022 12:16:39PM

S.2 1/2'

E208138-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Benzene	ND	0.0250	1	08/25/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/25/22	08/30/22	
Toluene	ND	0.0250	1	08/25/22	08/30/22	
o-Xylene	ND	0.0250	1	08/25/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/25/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	90.8 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	96.6 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	90.8 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	96.6 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2235051
Diesel Range Organics (C10-C28)	ND	25.0	1	08/25/22	08/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/25/22	08/26/22	
Surrogate: n-Nonane	100 %	50-200		08/25/22	08/26/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2235044
Chloride	ND	20.0	1	08/25/22	08/26/22	



Sample Data

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

Project Name: Volley Ball St #1
Project Number: 22093-0001
Project Manager: Tom Bynum

Reported:
8/31/2022 12:16:39PM

S.2 1'

E208138-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Benzene	ND	0.0250	1	08/25/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/25/22	08/30/22	
Toluene	ND	0.0250	1	08/25/22	08/30/22	
o-Xylene	ND	0.0250	1	08/25/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/25/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	89.6 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	96.4 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	89.6 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	96.4 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2235051
Diesel Range Organics (C10-C28)	ND	25.0	1	08/25/22	08/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/25/22	08/26/22	
Surrogate: n-Nonane	99.5 %	50-200		08/25/22	08/26/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2235044
Chloride	ND	20.0	1	08/25/22	08/26/22	



Sample Data

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

Project Name: Volley Ball St #1
Project Number: 22093-0001
Project Manager: Tom Bynum

Reported:
8/31/2022 12:16:39PM

S.3 1/2'

E208138-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Benzene	ND	0.0250	1	08/25/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/25/22	08/30/22	
Toluene	ND	0.0250	1	08/25/22	08/30/22	
o-Xylene	ND	0.0250	1	08/25/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/25/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	90.6 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	97.2 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	90.6 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	97.2 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2235051
Diesel Range Organics (C10-C28)	ND	25.0	1	08/25/22	08/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/25/22	08/26/22	
Surrogate: n-Nonane	98.5 %	50-200		08/25/22	08/26/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2235044
Chloride	ND	20.0	1	08/25/22	08/26/22	



Sample Data

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

Project Name: Volley Ball St #1
Project Number: 22093-0001
Project Manager: Tom Bynum

Reported:
8/31/2022 12:16:39PM

S.3 1'

E208138-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Benzene	ND	0.0250	1	08/25/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/25/22	08/30/22	
Toluene	ND	0.0250	1	08/25/22	08/30/22	
o-Xylene	ND	0.0250	1	08/25/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/25/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	91.7 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	98.0 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	91.7 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	98.0 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2235051
Diesel Range Organics (C10-C28)	ND	25.0	1	08/25/22	08/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/25/22	08/26/22	
Surrogate: n-Nonane	96.4 %	50-200		08/25/22	08/26/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2235044
Chloride	20.4	20.0	1	08/25/22	08/26/22	



Sample Data

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

Project Name: Volley Ball St #1
Project Number: 22093-0001
Project Manager: Tom Bynum

Reported:
8/31/2022 12:16:39PM

S.4 1/2'

E208138-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Benzene	ND	0.0250	1	08/25/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/25/22	08/30/22	
Toluene	ND	0.0250	1	08/25/22	08/30/22	
o-Xylene	ND	0.0250	1	08/25/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/25/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	92.0 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	96.4 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	92.0 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	96.4 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2235051
Diesel Range Organics (C10-C28)	ND	25.0	1	08/25/22	08/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/25/22	08/26/22	
Surrogate: n-Nonane	102 %	50-200		08/25/22	08/26/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2235044
Chloride	ND	20.0	1	08/25/22	08/26/22	



Sample Data

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

Project Name: Volley Ball St #1
Project Number: 22093-0001
Project Manager: Tom Bynum

Reported:
8/31/2022 12:16:39PM

S.4 1'

E208138-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Benzene	ND	0.0250	1	08/25/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/25/22	08/30/22	
Toluene	ND	0.0250	1	08/25/22	08/30/22	
o-Xylene	ND	0.0250	1	08/25/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/25/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	91.2 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	97.9 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	91.2 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	97.9 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2235051
Diesel Range Organics (C10-C28)	ND	25.0	1	08/25/22	08/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/25/22	08/26/22	
Surrogate: n-Nonane	101 %	50-200		08/25/22	08/26/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2235044
Chloride	ND	20.0	1	08/25/22	08/26/22	



Sample Data

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

Project Name: Volley Ball St #1
Project Number: 22093-0001
Project Manager: Tom Bynum

Reported:
8/31/2022 12:16:39PM

BG1

E208138-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Benzene	ND	0.0250	1	08/25/22	08/30/22	
Ethylbenzene	ND	0.0250	1	08/25/22	08/30/22	
Toluene	ND	0.0250	1	08/25/22	08/30/22	
o-Xylene	ND	0.0250	1	08/25/22	08/30/22	
p,m-Xylene	ND	0.0500	1	08/25/22	08/30/22	
Total Xylenes	ND	0.0250	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	95.6 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	98.8 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/22	08/30/22	
Surrogate: Bromofluorobenzene	95.6 %	70-130		08/25/22	08/30/22	
Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130		08/25/22	08/30/22	
Surrogate: Toluene-d8	98.8 %	70-130		08/25/22	08/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2235051
Diesel Range Organics (C10-C28)	ND	25.0	1	08/25/22	08/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/25/22	08/26/22	
Surrogate: n-Nonane	96.8 %	50-200		08/25/22	08/26/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2235044
Chloride	ND	20.0	1	08/25/22	08/26/22	



Sample Data

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

Project Name: Volley Ball St #1
Project Number: 22093-0001
Project Manager: Tom Bynum

Reported:
8/31/2022 12:16:39PM

BG2

E208138-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Benzene	ND	0.0250	1	08/25/22	08/31/22	
Ethylbenzene	ND	0.0250	1	08/25/22	08/31/22	
Toluene	ND	0.0250	1	08/25/22	08/31/22	
o-Xylene	ND	0.0250	1	08/25/22	08/31/22	
p,m-Xylene	ND	0.0500	1	08/25/22	08/31/22	
Total Xylenes	ND	0.0250	1	08/25/22	08/31/22	
Surrogate: Bromofluorobenzene	93.3 %	70-130		08/25/22	08/31/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		08/25/22	08/31/22	
Surrogate: Toluene-d8	97.0 %	70-130		08/25/22	08/31/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2235048
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/25/22	08/31/22	
Surrogate: Bromofluorobenzene	93.3 %	70-130		08/25/22	08/31/22	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		08/25/22	08/31/22	
Surrogate: Toluene-d8	97.0 %	70-130		08/25/22	08/31/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2235051
Diesel Range Organics (C10-C28)	ND	25.0	1	08/25/22	08/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/25/22	08/26/22	
Surrogate: n-Nonane	101 %	50-200		08/25/22	08/26/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2235044
Chloride	ND	200	10	08/25/22	08/26/22	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Volley Ball St #1	Reported:
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/31/2022 12:16:39PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

Blank (2235048-BLK1)

Prepared: 08/25/22 Analyzed: 08/26/22

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	0.458		0.500		91.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.5	70-130			

LCS (2235048-BS1)

Prepared: 08/25/22 Analyzed: 08/26/22

Benzene	2.15	0.0250	2.50		85.9	70-130			
Ethylbenzene	2.29	0.0250	2.50		91.5	70-130			
Toluene	2.14	0.0250	2.50		85.4	70-130			
o-Xylene	2.38	0.0250	2.50		95.2	70-130			
p,m-Xylene	4.62	0.0500	5.00		92.4	70-130			
Total Xylenes	7.00	0.0250	7.50		93.4	70-130			
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

Matrix Spike (2235048-MS1)

Source: E208138-03

Prepared: 08/25/22 Analyzed: 08/26/22

Benzene	2.09	0.0250	2.50	ND	83.5	48-131			
Ethylbenzene	2.21	0.0250	2.50	ND	88.3	45-135			
Toluene	2.06	0.0250	2.50	ND	82.3	48-130			
o-Xylene	2.28	0.0250	2.50	ND	91.0	43-135			
p,m-Xylene	4.43	0.0500	5.00	ND	88.5	43-135			
Total Xylenes	6.70	0.0250	7.50	ND	89.4	43-135			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.486		0.500		97.1	70-130			

Matrix Spike Dup (2235048-MSD1)

Source: E208138-03

Prepared: 08/25/22 Analyzed: 08/26/22

Benzene	2.20	0.0250	2.50	ND	87.9	48-131	5.14	23	
Ethylbenzene	2.36	0.0250	2.50	ND	94.4	45-135	6.70	27	
Toluene	2.25	0.0250	2.50	ND	89.9	48-130	8.78	24	
o-Xylene	2.44	0.0250	2.50	ND	97.4	43-135	6.79	27	
p,m-Xylene	4.78	0.0500	5.00	ND	95.7	43-135	7.77	27	
Total Xylenes	7.22	0.0250	7.50	ND	96.3	43-135	7.44	27	
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Volley Ball St #1	Reported: 8/31/2022 12:16:39PM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

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

Blank (2235048-BLK1)

Prepared: 08/25/22 Analyzed: 08/26/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.458		0.500		91.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.5	70-130			

LCS (2235048-BS2)

Prepared: 08/25/22 Analyzed: 08/26/22

Gasoline Range Organics (C6-C10)	45.4	20.0	50.0		90.7	70-130			
Surrogate: Bromofluorobenzene	0.486		0.500		97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.6	70-130			
Surrogate: Toluene-d8	0.486		0.500		97.1	70-130			

Matrix Spike (2235048-MS2)

Source: E208138-03

Prepared: 08/25/22 Analyzed: 08/26/22

Gasoline Range Organics (C6-C10)	43.1	20.0	50.0	ND	86.2	70-130			
Surrogate: Bromofluorobenzene	0.494		0.500		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.3	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

Matrix Spike Dup (2235048-MSD2)

Source: E208138-03

Prepared: 08/25/22 Analyzed: 08/26/22

Gasoline Range Organics (C6-C10)	43.7	20.0	50.0	ND	87.4	70-130	1.35	20	
Surrogate: Bromofluorobenzene	0.482		0.500		96.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		91.9	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Volley Ball St #1	Reported:
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/31/2022 12:16:39PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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

Blank (2235051-BLK1)

Prepared: 08/25/22 Analyzed: 08/25/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.8		50.0		91.6	50-200			

LCS (2235051-BS1)

Prepared: 08/25/22 Analyzed: 08/25/22

Diesel Range Organics (C10-C28)	228	25.0	250		91.2	38-132			
Surrogate: n-Nonane	47.4		50.0		94.7	50-200			

Matrix Spike (2235051-MS1)

Source: E208138-04

Prepared: 08/25/22 Analyzed: 08/25/22

Diesel Range Organics (C10-C28)	235	25.0	250	ND	94.1	38-132			
Surrogate: n-Nonane	45.1		50.0		90.3	50-200			

Matrix Spike Dup (2235051-MSD1)

Source: E208138-04

Prepared: 08/25/22 Analyzed: 08/25/22

Diesel Range Organics (C10-C28)	232	25.0	250	ND	92.6	38-132	1.56	20	
Surrogate: n-Nonane	47.2		50.0		94.3	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Volley Ball St #1	Reported:
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/31/2022 12:16:39PM

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

Blank (2235044-BLK1)

Prepared: 08/25/22 Analyzed: 08/26/22

Chloride	ND	20.0
----------	----	------

LCS (2235044-BS1)

Prepared: 08/25/22 Analyzed: 08/26/22

Chloride	256	20.0	250	102	90-110
----------	-----	------	-----	-----	--------

Matrix Spike (2235044-MS1)

Source: E208138-01

Prepared: 08/25/22 Analyzed: 08/26/22

Chloride	304	20.0	250	46.6	103	80-120
----------	-----	------	-----	------	-----	--------

Matrix Spike Dup (2235044-MSD1)

Source: E208138-01

Prepared: 08/25/22 Analyzed: 08/26/22

Chloride	303	20.0	250	46.6	102	80-120	0.523	20
----------	-----	------	-----	------	-----	--------	-------	----

QC Summary Report Comment:

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



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Volley Ball St #1	
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	08/31/22 12:16

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

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

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



Project Information

Chain of Custody

Page 1 of 2

Client: Pima Environmental Services Project: Valley Ball ST #1 Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:					Bill To Attention: <u>Armstrong</u> Address: City, State, Zip: Phone: Email: Pima Project # <u>19-1</u>					Lab Use Only Lab WO# <u>E208138</u> Job Number <u>22093-0001</u> Analysis and Method					TAT 1D 2D 3D Standard Y				EPA Program CWA SDWA RCRA	
										State NM CO UT AZ TX X										
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/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	8/22/22	S		SW 1	1							X								
10:05				SW 2	2															
10:10				SW 3	3															
10:15				SW 4	4															
10:20				SW 5	5															
10:25				SW 6	6															
10:30				SW 7	7															
10:35				SW 8	8															
10:40				S. 1 1/2'	9															
10:45				S. 1 1'	10															
Additional Instructions: <u>Bill to Armstrong, if not Bill to Pima</u>																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																				
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																				
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only Received on ice: <u>Y</u> / N								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4</u>								
Sample Matrix <u>(S - Soil)</u> Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																				
Container Type <u>(g - glass)</u> p - poly/plastic, ag - amber glass, v - VOA																				
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				

Project Information

Chain of Custody

Page 2 of 2

Client: Pima Environmental Services					Bill To		Lab Use Only				TAT				EPA Program	
Project: <u>Volley Ball ST # 1</u>					Attention: <u>Armstrong</u>		Lab WO# <u>E208138</u>		Job Number <u>22093-000</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum					Address:		Analysis and Method								RCRA	
Address: 5614 N. Lovington Hwy.					City, State, Zip											
City, State, Zip <u>Hobbs, NM, 88240</u>					Phone:											
Phone: 580-748-1613					Email:											
Email: tom@pimaoil.com					Pima Project # <u>19-1</u>											
Report due by:																
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BDOC NM	BDOC TX	Remarks
10:50	8/22/22	S		S.2 1/2'	11									X		
10:55				S.2 1'	12											
11:00				S.3 1/2'	13											
11:05				S.3 1'	14											
11:10				S.4 1/2'	15											
11:15				S.4 1'	16											
11:20				BG 1	17											
11:25				BG 2	18											
					19											
					20											
Additional Instructions: <u>Bill to Armstrong if not, Bill to Pima</u>																
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.											Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
Relinquished by: (Signature) <u>Alexandra Sanders</u>											Received by: (Signature) <u>Scott Henson</u>					
Date <u>8-24-22</u>											Date <u>8/25/22</u>					
Time											Time <u>10:16</u>					
Relinquished by: (Signature)											Received by: (Signature)					
Date											Date					
Time											Time					
Relinquished by: (Signature)											Received by: (Signature)					
Date											Date					
Time											Time					
Sample Matrix <u>S - Soil</u> Sd - Solid, Sg - Sludge, A - Aqueous, O - Other											Container Type <u>g - glass</u> p - poly/plastic, ag - amber glass, v - VOA					
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																

Envirotech Analytical Laboratory

Printed: 8/25/2022 10:35:17AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	08/25/22 10:16	Work Order ID:	E208138
Phone:	(575) 631-6977	Date Logged In:	08/25/22 10:22	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	08/31/22 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Volley Ball St #1

Work Order: E209058

Job Number: 22093-0001

Received: 9/14/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/20/22

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: 9/20/22

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Volley Ball St #1
Workorder: E209058
Date Received: 9/14/2022 11:00:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/14/2022 11:00:00AM, under the Project Name: Volley Ball St #1.

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

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

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

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

Respectfully,

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

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

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

Field Offices:

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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
1 CS	5
CSW 1	6
CSW 2	7
CSW 3	8
CSW 4	9
QC Summary Data	10
QC - Volatile Organics by EPA 8021B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
Chain of Custody etc.	15

Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Volley Ball St #1	Reported: 09/20/22 14:23
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
1 CS	E209058-01A	Soil	09/10/22	09/14/22	Glass Jar, 4 oz.
CSW 1	E209058-02A	Soil	09/10/22	09/14/22	Glass Jar, 4 oz.
CSW 2	E209058-03A	Soil	09/10/22	09/14/22	Glass Jar, 4 oz.
CSW 3	E209058-04A	Soil	09/10/22	09/14/22	Glass Jar, 4 oz.
CSW 4	E209058-05A	Soil	09/10/22	09/14/22	Glass Jar, 4 oz.



Sample Data

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

Project Name: Volley Ball St #1
Project Number: 22093-0001
Project Manager: Tom Bynum

Reported:
9/20/2022 2:23:49PM

1 CS

E209058-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2238035	
Benzene	ND	0.0250	1	09/14/22	09/14/22	
Ethylbenzene	ND	0.0250	1	09/14/22	09/14/22	
Toluene	ND	0.0250	1	09/14/22	09/14/22	
o-Xylene	ND	0.0250	1	09/14/22	09/14/22	
p,m-Xylene	ND	0.0500	1	09/14/22	09/14/22	
Total Xylenes	ND	0.0250	1	09/14/22	09/14/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	09/14/22	09/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2238035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/14/22	09/14/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		80.1 %	70-130	09/14/22	09/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2238045	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/22	09/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/22	09/16/22	
<i>Surrogate: n-Nonane</i>		95.1 %	50-200	09/14/22	09/16/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2238072	
Chloride	ND	20.0	1	09/16/22	09/18/22	



Sample Data

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

Project Name: Volley Ball St #1
Project Number: 22093-0001
Project Manager: Tom Bynum

Reported:
9/20/2022 2:23:49PM

CSW 1

E209058-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238035
Benzene	ND	0.0250	1	09/14/22	09/14/22	
Ethylbenzene	ND	0.0250	1	09/14/22	09/14/22	
Toluene	ND	0.0250	1	09/14/22	09/14/22	
o-Xylene	ND	0.0250	1	09/14/22	09/14/22	
p,m-Xylene	ND	0.0500	1	09/14/22	09/14/22	
Total Xylenes	ND	0.0250	1	09/14/22	09/14/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	09/14/22	09/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238035
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/14/22	09/14/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		80.8 %	70-130	09/14/22	09/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2238045
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/22	09/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/22	09/16/22	
<i>Surrogate: n-Nonane</i>						
		99.4 %	50-200	09/14/22	09/16/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2238072
Chloride	ND	20.0	1	09/16/22	09/18/22	



Sample Data

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

Project Name: Volley Ball St #1
Project Number: 22093-0001
Project Manager: Tom Bynum

Reported:
9/20/2022 2:23:49PM

CSW 2

E209058-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2238035	
Benzene	ND	0.0250	1	09/14/22	09/14/22	
Ethylbenzene	ND	0.0250	1	09/14/22	09/14/22	
Toluene	ND	0.0250	1	09/14/22	09/14/22	
o-Xylene	ND	0.0250	1	09/14/22	09/14/22	
p,m-Xylene	ND	0.0500	1	09/14/22	09/14/22	
Total Xylenes	ND	0.0250	1	09/14/22	09/14/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	09/14/22	09/14/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2238035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/14/22	09/14/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		76.9 %	70-130	09/14/22	09/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2238045	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/22	09/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/22	09/16/22	
<i>Surrogate: n-Nonane</i>						
		92.8 %	50-200	09/14/22	09/16/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2238072	
Chloride	ND	20.0	1	09/16/22	09/18/22	



Sample Data

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

Project Name: Volley Ball St #1
Project Number: 22093-0001
Project Manager: Tom Bynum

Reported:
9/20/2022 2:23:49PM

CSW 3

E209058-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238035
Benzene	ND	0.0250	1	09/14/22	09/15/22	
Ethylbenzene	ND	0.0250	1	09/14/22	09/15/22	
Toluene	ND	0.0250	1	09/14/22	09/15/22	
o-Xylene	ND	0.0250	1	09/14/22	09/15/22	
p,m-Xylene	ND	0.0500	1	09/14/22	09/15/22	
Total Xylenes	ND	0.0250	1	09/14/22	09/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	09/14/22	09/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238035
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/14/22	09/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		80.3 %	70-130	09/14/22	09/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2238045
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/22	09/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/22	09/16/22	
<i>Surrogate: n-Nonane</i>						
		101 %	50-200	09/14/22	09/16/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2238072
Chloride	ND	20.0	1	09/16/22	09/18/22	



Sample Data

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

Project Name: Volley Ball St #1
Project Number: 22093-0001
Project Manager: Tom Bynum

Reported:
9/20/2022 2:23:49PM

CSW 4

E209058-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238035
Benzene	ND	0.0250	1	09/14/22	09/15/22	
Ethylbenzene	ND	0.0250	1	09/14/22	09/15/22	
Toluene	ND	0.0250	1	09/14/22	09/15/22	
o-Xylene	ND	0.0250	1	09/14/22	09/15/22	
p,m-Xylene	ND	0.0500	1	09/14/22	09/15/22	
Total Xylenes	ND	0.0250	1	09/14/22	09/15/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	09/14/22	09/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238035
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/14/22	09/15/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		79.3 %	70-130	09/14/22	09/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2238045
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/22	09/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/22	09/16/22	
<i>Surrogate: n-Nonane</i>						
		98.7 %	50-200	09/14/22	09/16/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2238072
Chloride	ND	20.0	1	09/16/22	09/18/22	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Volley Ball St #1	Reported:
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/20/2022 2:23:49PM

Volatile Organics by EPA 8021B

Analyst: IY

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

Blank (2238035-BLK1)

Prepared: 09/14/22 Analyzed: 09/14/22

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: 4-Bromochlorobenzene-PID	7.88		8.00		98.5	70-130			

LCS (2238035-BS1)

Prepared: 09/14/22 Analyzed: 09/14/22

Benzene	5.30	0.0250	5.00		106	70-130			
Ethylbenzene	4.43	0.0250	5.00		88.6	70-130			
Toluene	4.68	0.0250	5.00		93.7	70-130			
o-Xylene	4.48	0.0250	5.00		89.7	70-130			
p,m-Xylene	8.98	0.0500	10.0		89.8	70-130			
Total Xylenes	13.5	0.0250	15.0		89.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.4	70-130			

LCS Dup (2238035-BS1)

Prepared: 09/14/22 Analyzed: 09/14/22

Benzene	5.36	0.0250	5.00		107	70-130	1.04	20	
Ethylbenzene	4.49	0.0250	5.00		89.8	70-130	1.36	20	
Toluene	4.74	0.0250	5.00		94.8	70-130	1.20	20	
o-Xylene	4.54	0.0250	5.00		90.7	70-130	1.18	20	
p,m-Xylene	9.09	0.0500	10.0		90.9	70-130	1.22	20	
Total Xylenes	13.6	0.0250	15.0		90.8	70-130	1.21	20	
Surrogate: 4-Bromochlorobenzene-PID	7.85		8.00		98.2	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Volley Ball St #1	Reported:
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/20/2022 2:23:49PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

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

Blank (2238035-BLK1)

Prepared: 09/14/22 Analyzed: 09/14/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.62		8.00		82.7	70-130			

LCS (2238035-BS2)

Prepared: 09/14/22 Analyzed: 09/14/22

Gasoline Range Organics (C6-C10)	50.6	20.0	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.82		8.00		85.2	70-130			

LCS Dup (2238035-BSD2)

Prepared: 09/14/22 Analyzed: 09/14/22

Gasoline Range Organics (C6-C10)	50.6	20.0	50.0		101	70-130	0.00850	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.79		8.00		84.9	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Volley Ball St #1	Reported:
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/20/2022 2:23:49PM

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

Blank (2238045-BLK1)

Prepared: 09/14/22 Analyzed: 09/16/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.8		50.0		89.6	50-200			

LCS (2238045-BS1)

Prepared: 09/14/22 Analyzed: 09/16/22

Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Surrogate: n-Nonane	46.8		50.0		93.6	50-200			

Matrix Spike (2238045-MS1)

Source: E209058-04

Prepared: 09/14/22 Analyzed: 09/16/22

Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	45.7		50.0		91.3	50-200			

Matrix Spike Dup (2238045-MSD1)

Source: E209058-04

Prepared: 09/14/22 Analyzed: 09/16/22

Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132	2.32	20	
Surrogate: n-Nonane	47.3		50.0		94.6	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Volley Ball St #1	Reported:
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/20/2022 2:23:49PM

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

Blank (2238072-BLK1)

Prepared: 09/16/22 Analyzed: 09/18/22

Chloride	ND	20.0
----------	----	------

LCS (2238072-BS1)

Prepared: 09/16/22 Analyzed: 09/18/22

Chloride	261	20.0	250	104	90-110
----------	-----	------	-----	-----	--------

Matrix Spike (2238072-MS1)

Source: E209057-01

Prepared: 09/16/22 Analyzed: 09/18/22

Chloride	313	20.0	250	56.0	103	80-120
----------	-----	------	-----	------	-----	--------

Matrix Spike Dup (2238072-MSD1)

Source: E209057-01

Prepared: 09/16/22 Analyzed: 09/18/22

Chloride	302	20.0	250	56.0	98.4	80-120	3.51	20
----------	-----	------	-----	------	------	--------	------	----

QC Summary Report Comment:

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



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Volley Ball St #1	
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	09/20/22 14:23

- 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.



Envirotech Analytical Laboratory

Printed: 9/14/2022 3:10:29PM

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:	09/14/22 11:00	Work Order ID:	E209058
Phone:	(575) 631-6977	Date Logged In:	09/13/22 16:28	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	09/20/22 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? 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.

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 147384

CONDITIONS

Operator: ARMSTRONG ENERGY CORP P.O. Box 1973 Roswell, NM 88202	OGRID: 1092
	Action Number: 147384
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	12/22/2022