



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

Attachments

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- NAPP2408179114 Release Area Site Map
- 5- NPRS0505531372 Release Area Site Map
- 6- Delineation Sample Map (04/30/2024, 05/01/2024)
- 7- Confirmation Sample Map (04/08/2024)

Appendices:

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



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

May 23, 2024

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

**Re: Site Assessment, Remediation, and Closure Report
State 3 #001
API No. 30-025-34238
GPS: Latitude 32.9383049 Longitude -103.306366
UL "D", Sec. 12, T16S, R36E
Lea County, NM
NMOCD Ref. No. NAPP2408179114, nPRS0505531372**

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 two overlapping crude oil releases at the State 3 #001 (State) site. The initial C-141 was submitted on April 3, 2024 (Appendix C). This incident was assigned Incident ID NAPP2408179114, by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The State 3 #001 is located approximately two and a half (2.5) miles east of Lovington, NM. This spill site is in Unit D, Section 12, Township 16S, Range 36E, Latitude 32.9383049, Longitude -103.306366, Lea County, NM. Figure 1 references a Location map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is Alluvial and Eolian deposits (Lower Pliocene to middle Miocene). The soil in this area is made up of Kimbrough gravelly loam, 0 to 3 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well-drained. There is a low potential for karst geology to be present around State 3 #001 (Figure 3).

Based on the well water data from the New Mexico Office of the State Engineer water well (RA 15209 POD1), the depth to the nearest groundwater in this vicinity measures 110 feet below grade surface (BGS), positioned roughly 0.18 miles away from the State, drilled on December 17, 2021. Conversely, as per the United States Geological Survey well water data (USGS325541103173801), the nearest groundwater depth in this region is recorded at 86 feet BGS, situated approximately 0.72 miles away from the State, with the last gauge conducted on December 18, 2015. For detailed references to water surveys and the precise locations of water wells, please refer to Appendix A, inclusive of the relevant maps. Notably, the State is situated within an area with a low potential for karst, as illustrated in Figure 3. Additionally, a comprehensive Topographic Map is available for reference in Figure 2.

Table 1 NMAC and Closure Criteria 19.15.29

Depth to Groundwater (Appendix A)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
<50'	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg
51-100'	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
>100' (RA 15209 POD1)	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

NAPP2408179114: On March 21, 2024, an oil production tank battery developed a hole in its bottom, causing oil to drain into the containment area. All the fluid remained within the containment, with approximately 275 barrels of crude oil being released. Of this, 123 barrels were recovered using a vacuum truck, resulting in a total loss of 152 barrels. A site map outlining the release area can be found in Figure 4.

nPRS0505531372: On October 13, 2004, a valve on a production tank had a handle but no bull plug. Cows kicked the valve open, leading to the removal of the valve handle. A firewall and fence were constructed around the tank. In the immediate area around the tank and off location, approximately 90x12 feet, a truck was used to collect free fluid and a loader was employed to remove the soil, which was then hauled to a land farm. Approximately 240 barrels of crude oil were released into the lined containment, and 75 barrels were recovered, resulting in a total loss of 165 barrels of crude oil. Since the release in 2004, the tank battery has been relocated. The area that was previously off-pad now overlaps with the location of the current tank battery containment. For reference, please see Figure 5.

Site Assessment and Soil Sampling Results

From March 22 through April 3, 2024, Armstrong Energy conducted an urgent excavation of the affected area within the lined containment to prevent crude oil from seeping further into the soil. They used a track hoe and belly dumps to remove the contaminated material from the site. The excavation covered approximately 4,500 square feet and reached a depth of 8 feet below ground surface (bgs). In total, 1,300 cubic yards of contaminated material were removed and transported to an NMOCD-approved landfill for disposal.

On April 5, 2024, Armstrong Energy proactively submitted a 48-hour sampling notification as part of the preliminary preparations leading up to the final confirmation sampling event. This precautionary step was taken with the expectation that all sampling results would fall below the closure criteria established by the New Mexico Oil Conservation Division (NMOCD). Should the results confirm compliance, the plan is to move forward with the closure process. For additional details, the 48-hour notification can be referenced in Appendix C.

On April 8, 2024, Pima Environmental collected 25 composite bottom samples (labeled CS1-CS25) and 8 composite sidewall samples (labeled CSW1-CSW8). All confirmation samples consist of a five-point composite sample from the excavated area. The bottom samples were collected at a depth of 8 feet below ground surface (bgs), while all sidewall samples were collected from depths ranging from the surface to 8 feet bgs. Each bottom sample represented no more than 200 square feet of the excavated area, and each sidewall sample represented no more than 50 linear feet. The soil samples were bagged, placed on ice, and transported to Envirotech in Farmington, NM, for analytical analysis. The laboratory results from this sampling event are presented in the following data table. Figure 7 provides a confirmation site map showing the location of each soil sample.

Sample Results (04-08-2024)

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
Armstrong- State 3 #001								
4/8/2024		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
CS1	8'	ND	ND	ND	214	84	298	ND
CS2	8'	ND	ND	ND	328	129	457	ND
CS3	8'	ND	ND	ND	474	184	658	ND
CS4	8'	ND	ND	ND	404	166	570	ND
CS5	8'	ND	ND	ND	325	142	467	ND
CS6	8'	ND	ND	ND	149	65.9	214.9	ND
CS7	8'	ND	ND	ND	364	140	504	24.6
CS8	8'	ND	ND	ND	394	160	554	22.2
CS9	8'	ND	ND	ND	ND	ND	ND	ND
CS10	8'	ND	ND	ND	ND	ND	ND	ND
CS11	8'	ND	ND	ND	433	180	613	ND
CS12	8'	ND	ND	ND	390	174	564	ND
CS13	8'	ND	ND	ND	956	315	1271	ND
CS14	8'	ND	ND	ND	431	175	606	ND
CS15	8'	ND	ND	ND	596	246	842	21.2
CS16	8'	ND	ND	ND	658	261	919	21
CS17	8'	ND	ND	ND	440	190	630	ND

CS18	8'	ND	ND	ND	75.1	54.9	130	ND
CS19	8'	ND	ND	ND	ND	ND	ND	ND
CS20	8'	ND	ND	ND	ND	ND	ND	ND
CS21	8'	ND	ND	ND	135	55.1	190.1	ND
CS22	8'	ND	ND	ND	489	178	667	ND
CS23	8'	ND	ND	ND	478	173	651	21.3
CS24	8'	ND	ND	ND	323	134	457	ND
CS25	8'	ND	ND	ND	277	121	398	ND
CSW1	0-8'	ND	ND	ND	548	197	745	ND
CSW2	0-8'	ND	ND	ND	696	238	934	ND
CSW3	0-8'	ND	ND	ND	546	211	757	ND
CSW4	0-8'	ND	ND	ND	487	182	669	ND
CSW5	0-8'	ND	ND	ND	533	197	730	ND
CSW6	0-8'	ND	ND	ND	523	199	722	ND
CSW7	0-8'	ND	ND	ND	654	239	893	ND
CSW8	0-8'	ND	ND	ND	875	297	1172	ND

ND: NON-DETECT

On April 30 and May 1, 2024, Pima Environmental returned to the site to collect delineation samples following the excavation. We collected ten vertical delineation samples (labeled VD1-VD10) from the bottom of the excavation at a depth of 11 feet below ground surface (bgs). These samples were taken using a hand auger and extended below the 8-foot excavation mark to find soil samples with analytical levels below the 600/100 criteria set by the NMOCD. Additionally, we collected eight horizontal delineation samples (labeled HD1-HD8) at depths of 1 foot and 2 feet bgs. These horizontal samples were collected outside of the excavated area to achieve full delineation below the 600/100 mark. The soil samples were bagged, placed on ice, and transported to Envirotech in Farmington, NM, for analytical analysis. The laboratory results of this sampling event are presented in the following data table. Figure 6 provides a delineation site map indicating the location of each soil sample.

Sample Results (04-30-2024, 05-01-2024)

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
Armstrong- State 3 #001								
4/30/2024, 5/01/2024		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
VD1	11'	ND	ND	ND	ND	ND	ND	ND
VD2	11'	ND	ND	ND	ND	ND	ND	ND
VD3	11'	ND	ND	ND	ND	ND	ND	ND
VD4	11'	ND	ND	ND	ND	ND	ND	ND
VD5	11'	ND	ND	ND	ND	ND	ND	ND
VD6	11'	ND	ND	ND	ND	ND	ND	ND
VD7	11'	ND	ND	ND	ND	ND	ND	ND
VD8	11'	ND	ND	ND	ND	ND	ND	ND
VD9	11'	ND	ND	ND	ND	ND	ND	ND
VD10	11'	ND	ND	ND	ND	ND	ND	ND
HD1	1'	ND	ND	ND	ND	ND	ND	ND
	2'	ND	ND	ND	ND	ND	ND	ND
HD2	1'	ND	ND	ND	ND	ND	ND	ND
	2'	ND	ND	ND	ND	ND	ND	ND
HD3	1'	ND	ND	ND	ND	ND	ND	ND
	2'	ND	ND	ND	ND	ND	ND	ND
HD4	1'	ND	ND	ND	ND	ND	ND	ND
	2'	ND	ND	ND	ND	ND	ND	ND
HD5	1'	ND	ND	ND	ND	ND	ND	ND
	2'	ND	ND	ND	ND	ND	ND	ND
HD6	1'	ND	ND	ND	ND	ND	ND	ND
	2'	ND	ND	ND	ND	ND	ND	ND
HD7	1'	ND	ND	ND	ND	ND	ND	ND
	2'	ND	ND	ND	ND	ND	ND	ND
HD8	1'	ND	ND	ND	ND	ND	ND	ND

	2'	ND	ND	ND	ND	ND	ND	ND
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ND: NON-DETECT

Upon confirming that all soils samples were below NMOCD closure criteria, the excavated area was backfilled with clean material and restored to its original contour.

Closure Request

After careful review, Pima requests that this incident, NAPP2408179114, 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



Pima Environmental Services


Figures:


1. Locaton Map
2. Topographic Map
3. Karst Map
4. NAPP2408179114 Release Area Site Map
5. NPRS0505531372 Release Area Site Map
6. Delineation Sample Map (04/30/2024, 05/01/2024)
7. Confirmation Sample Map (04/08/2024)

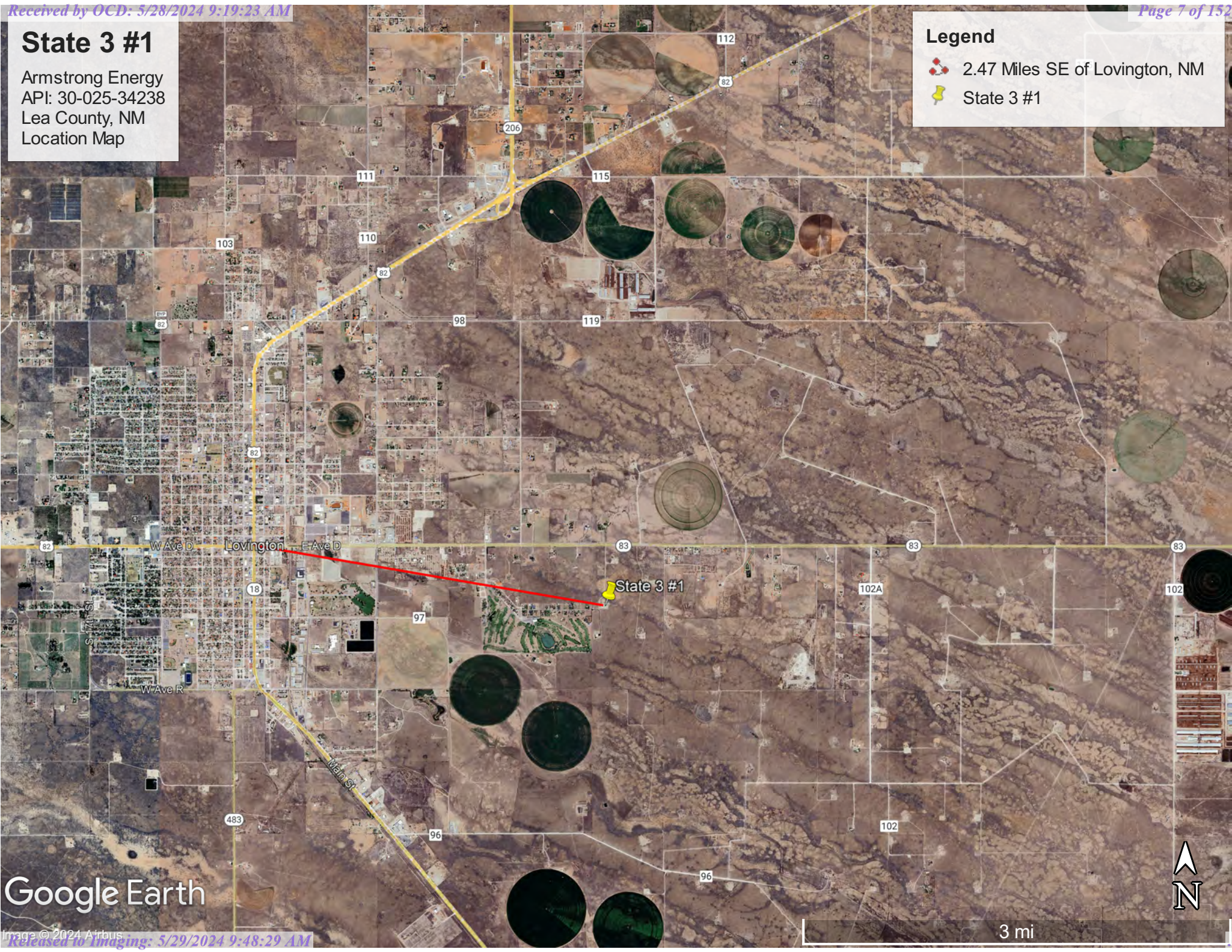
State 3 #1

Armstrong Energy
API: 30-025-34238
Lea County, NM
Location Map

Legend

 2.47 Miles SE of Lovington, NM

 State 3 #1

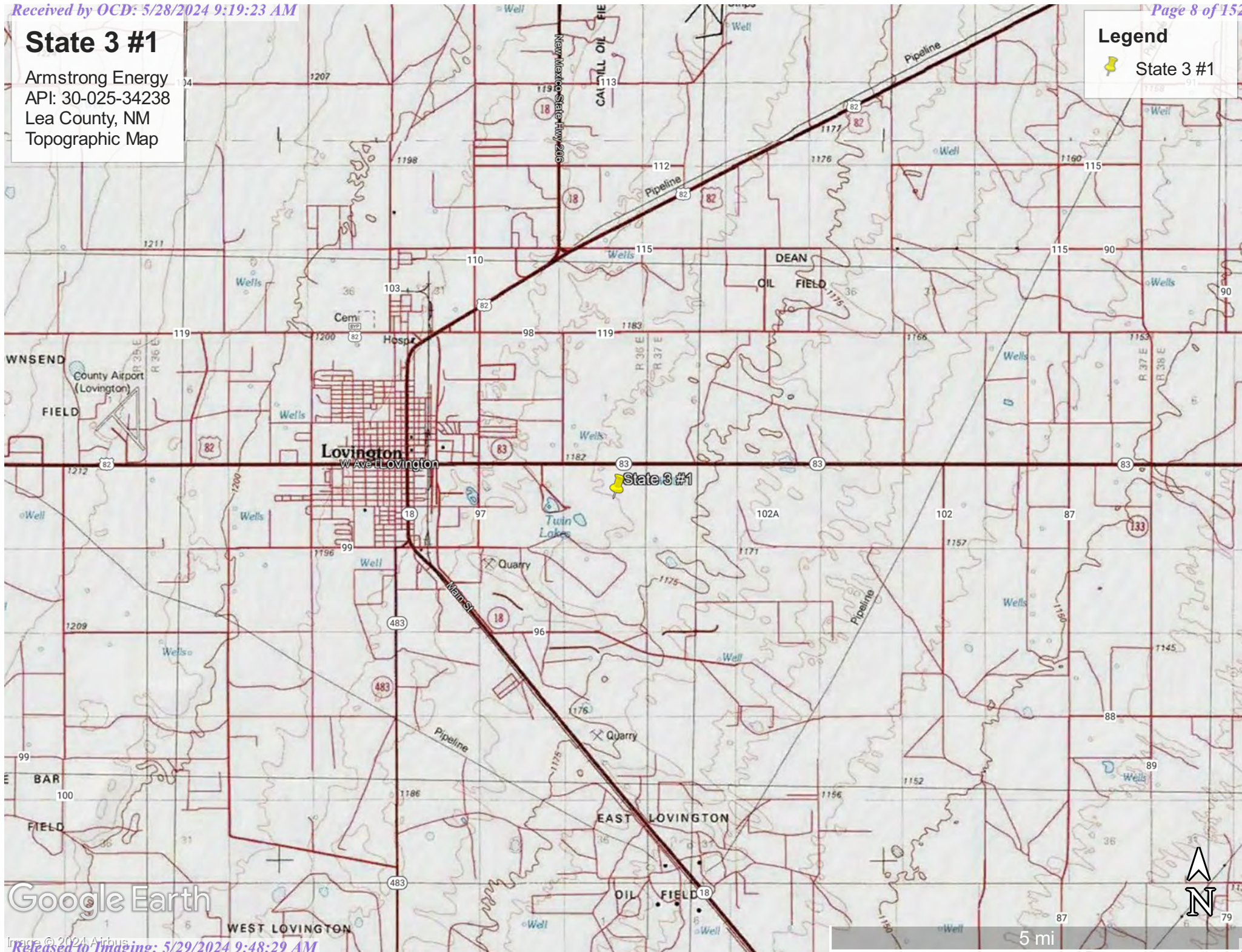


Google Earth

3 mi

Legend

 State 3 #1

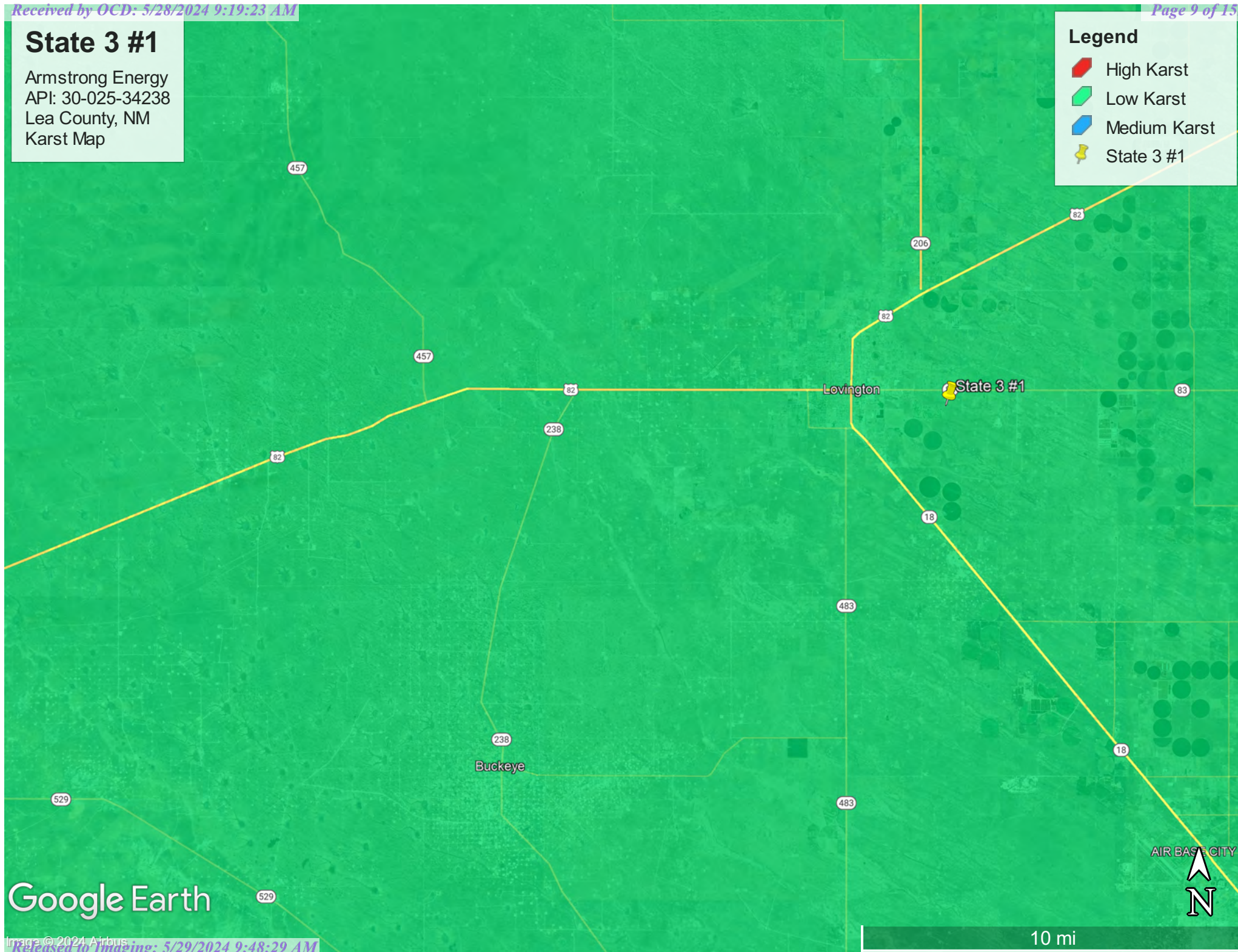


State 3 #1

Armstrong Energy
API: 30-025-34238
Lea County, NM
Karst Map

Legend

-  High Karst
-  Low Karst
-  Medium Karst
-  State 3 #1






Google Earth

State 3 #1

Armstrong Energy
API:30-025-34238
Lea County, NM
NAPP2408179114 Release Area Site Map

Legend

-  Release Area
-  State 3 #1



State 3 #1 




State 3 #1

Armstrong Energy
API:30-025-34238
Lea County, NM
NPRS0505531372 Release Area Site Map

Legend

-  Release Area
-  State 3 #1

State 3 #1 



State 3 #1

Armstrong Energy
API:30-025-34238
Lea County, NM
Delineation Sample Map

Legend

- Delineation Sample
- Map Excavated Area
- State 3 #1

State 3 #1

QHD8



NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
Armstrong- State 3 #001								
4/30/2024, 5/01/2024		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
VD1	11'	ND	ND	ND	ND	ND	ND	ND
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VD5	11'	ND	ND	ND	ND	ND	ND	ND
VD6	11'	ND	ND	ND	ND	ND	ND	ND
VD7	11'	ND	ND	ND	ND	ND	ND	ND
VD8	11'	ND	ND	ND	ND	ND	ND	ND
VD9	11'	ND	ND	ND	ND	ND	ND	ND
VD10	11'	ND	ND	ND	ND	ND	ND	ND
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	2'	ND	ND	ND	ND	ND	ND	ND
HD2	1'	ND	ND	ND	ND	ND	ND	ND
	2'	ND	ND	ND	ND	ND	ND	ND
HD3	1'	ND	ND	ND	ND	ND	ND	ND
	2'	ND	ND	ND	ND	ND	ND	ND
HD4	1'	ND	ND	ND	ND	ND	ND	ND
	2'	ND	ND	ND	ND	ND	ND	ND
HD5	1'	ND	ND	ND	ND	ND	ND	ND
	2'	ND	ND	ND	ND	ND	ND	ND
HD6	1'	ND	ND	ND	ND	ND	ND	ND
	2'	ND	ND	ND	ND	ND	ND	ND
HD7	1'	ND	ND	ND	ND	ND	ND	ND
	2'	ND	ND	ND	ND	ND	ND	ND
HD8	1'	ND	ND	ND	ND	ND	ND	ND
	2'	ND	ND	ND	ND	ND	ND	ND



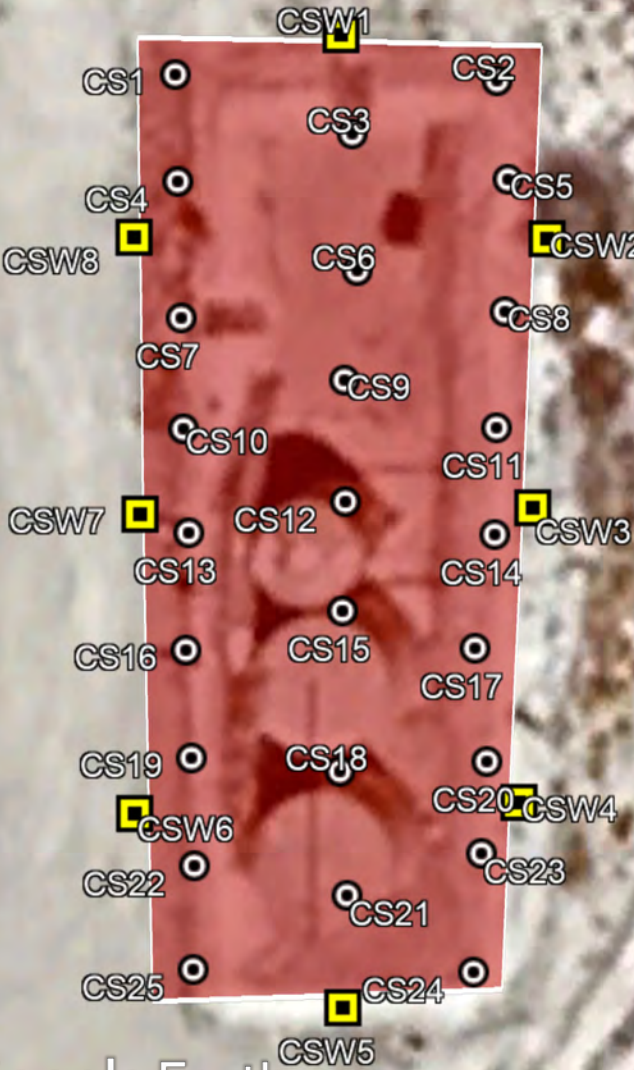
State 3 #1

Armstrong Energy
API:30-025-34238
Lea County, NM
Confirmation Sample Map

Legend

- Confirmation Bottom Sample
- Confirmation Side Wall Sample
- Excavated Area ~4,500 ft^2
- State 3 #1

State 3 #1



NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
Armstrong- State 3 #001								
4/8/2024		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
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CS12	8'	ND	ND	ND	390	174	564	ND
CS13	8'	ND	ND	ND	956	315	1271	ND
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CS17	8'	ND	ND	ND	440	190	630	ND
CS18	8'	ND	ND	ND	75.1	54.9	130	ND
CS19	8'	ND	ND	ND	ND	ND	ND	ND
CS20	8'	ND	ND	ND	ND	ND	ND	ND
CS21	8'	ND	ND	ND	135	55.1	190.1	ND
CS22	8'	ND	ND	ND	489	178	667	ND
CS23	8'	ND	ND	ND	478	173	651	21.3
CS24	8'	ND	ND	ND	323	134	457	ND
CS25	8'	ND	ND	ND	277	121	398	ND
CSW1	0-8'	ND	ND	ND	548	197	745	ND
CSW2	0-8'	ND	ND	ND	696	238	934	ND
CSW3	0-8'	ND	ND	ND	546	211	757	ND
CSW4	0-8'	ND	ND	ND	487	182	669	ND
CSW5	0-8'	ND	ND	ND	533	197	730	ND
CSW6	0-8'	ND	ND	ND	523	199	722	ND
CSW7	0-8'	ND	ND	ND	654	239	893	ND
CSW8	0-8'	ND	ND	ND	875	297	1172	ND



Pima Environmental Services

Appendix A

Water Surveys:

OSE

USGS

Surface Water Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
L 09498		L	LE	4	4	1	12	16S	36E	658079	3645649*	267	135	65	70
L 12706 POD1		L	LE							658133	3645489	289	215		
L 15209 POD1		L	LE	4	4	1	12	16S	36E	658035	3645701	309	200	110	90
L 10169		L	LE	2	4	1	12	16S	36E	658079	3645849*	309	135	90	45
L 09812		L	LE	4	4	1	12	16S	36E	658032	3645572	332	116	76	40
L 09811		L	LE		4	1	12	16S	36E	657980	3645750*	368	132		
L 14843 POD1		L	LE	3	1	4	12	16S	36E	658279	3645309	383	180	85	95
L 15245 POD1		L	LE	1	4	2	12	16S	36E	658742	3645914	458	170	72	98
L 09879		L	LE	3	4	1	12	16S	36E	657879	3645649*	466	154	70	84
L 06341		L	LE	1	4	1	12	16S	36E	657879	3645849*	491	148	65	83
L 11920 POD1		L	LE	3	2	1	12	16S	36E	657874	3646053*	594	156		
L 10009		L	LE			1	12	16S	36E	657779	3645942*	619	140	90	50
L 09749		L	LE	4	3	1	12	16S	36E	657677	3645640*	668	135	70	65
L 09793		L	LE	4	3	1	12	16S	36E	657677	3645640*	668	135	90	45
L 11742		L	LE	4	3	1	12	16S	36E	657677	3645640*	668	152	73	79
L 00307 POD3		L	LE	3	2	3	12	16S	36E	658885	3645263*	688	218	72	146
L 00307 POD2		L	LE	2	1	3	12	16S	36E	657683	3645436*	706	110	55	55
L 03172	R	L	LE	2	1	3	12	16S	36E	657683	3645436*	706	92	48	44
L 12259 POD1		L	LE							657630	3645564	724	195		
L 05542		L	LE	3	3	1	07	16S	37E	659083	3645654*	740	98	55	43
L 06676		L	LE	3	3	1	07	16S	37E	659083	3645654*	740	90	55	35
L 12348 POD1		L	LE	4	2	1	12	16S	36E	658080	3646393	753	186	65	121
L 06618		L	LE	3	3	4	01	16S	36E	658271	3646464*	779	95	60	35
L 03443		L	LE	1	1	3	07	16S	37E	659087	3645451*	780	85	56	29
L 00307 POD4	R	L	LE	2	1	3	12	16S	36E	657613	3645388	789	215	70	145
L 00307 POD5		L	LE	2	1	3	12	16S	36E	657592	3645415	799	224	75	149

Average Depth to Water: **71 feet**

Minimum Depth: **48 feet**

Maximum Depth: **110 feet**

Record Count: 26

UTMNAD83 Radius Search (in meters):

Eastings (X): 658343.5

Northing (Y): 3645687.72

Radius: 800

*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.


4/19/24 11:25 AM

WATER COLUMN/ AVERAGE DEPTH TO
WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)	
Well Tag	POD Number		Q64	Q16	Q4	Sec	Tws	Rng	X	Y	
20F73	L 15209 POD1		4	4	1	12	16S	36E	658035	3645701	
x											
Driller License:		1753		Driller Company:			VANGUARD WELL RESOURCES, LLC				
Driller Name:		JACOB FRIESSEN									
Drill Start Date:		12/17/2021		Drill Finish Date:			12/17/2021		Plug Date:		
Log File Date:		01/18/2022		PCW Rev Date:						Source: Shallow	
Pump Type:				Pipe Discharge Size:						Estimated Yield: 15 GPM	
Casing Size:		5.00		Depth Well:			200 feet		Depth Water: 110 feet		
x											
Water Bearing Stratifications:					Top	Bottom	Description				
					23	189	Sandstone/Gravel/Conglomerate				
					189	197	Sandstone/Gravel/Conglomerate				
x											
Casing Perforations:					Top	Bottom					
					160	200					
x											

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

4/19/24 11:26 AM

POINT OF DIVERSION SUMMARY

State 2 #001

Armstrong Energy
API:30-025-34235
Lea County ,NM
OSE location

- 0.18 Miles
- 0.18 Miles
- RA15209 POD 1
- STATE 3





[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 =

- 325642103191701

Minimum number of levels = 1

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

USGS 325642103191701 16S.36E.02.413333

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 12080003

Latitude 32°56'52", Longitude 103°19'31" NAD27

Land-surface elevation 3,892.00 feet above NGVD29

The depth of the well is 110 feet below land surface.

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

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

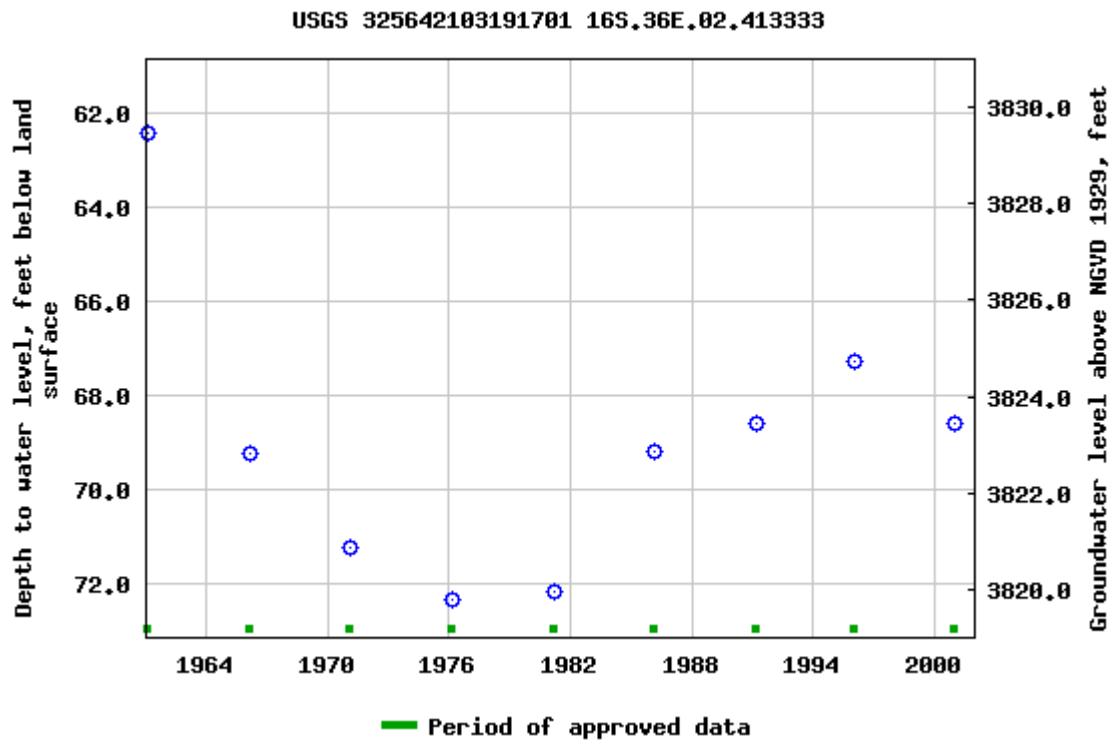
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



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

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Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2024-05-10 14:13:01 EDT

0.58 0.48 nadww02

State 3 #1

Armstrong Energy
API: 30-025-34238
Lea County, NM
USGS Map

Legend

- 1.27 Miles
- State 3 #1
- USGS 325642103191701






Google Earth

State 3 #1

Armstrong Energy
API: 30-025-34238
Lea County, NM
Surface Water Map

Legend

-  0.45 of a mile
-  Man-Made Lake
-  State 3 #1



Google Earth



Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

Map Unit Description: Kimbrough-Lea complex, 0 to 3 percent slopes---Lea County, New Mexico

Lea County, New Mexico

Kh—Kimbrough-Lea complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw45

Elevation: 2,500 to 4,800 feet

Mean annual precipitation: 14 to 16 inches

Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 180 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough and similar soils: 50 percent

Lea and similar soils: 35 percent

Minor components: 15 percent

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

Description of Kimbrough

Setting

Landform: Playa rims, plains

Down-slope shape: Convex, linear

Across-slope shape: Concave, linear

Parent material: Loamy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 3 inches: gravelly loam

Bw - 3 to 10 inches: loam

Bkkm1 - 10 to 16 inches: cemented material

Bkkm2 - 16 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 4 to 18 inches to petrocalcic

Drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.01 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 95 percent

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

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Map Unit Description: Kimbrough-Lea complex, 0 to 3 percent slopes---Lea County, New Mexico

Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R077DY049TX - Very Shallow 12-17" PZ
Hydric soil rating: No

Description of Lea

Setting

Landform: Plains
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age

Typical profile

A - 0 to 10 inches: loam
Bk - 10 to 18 inches: loam
Bkk - 18 to 26 inches: gravelly fine sandy loam
Bkkm - 26 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 22 to 30 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 90 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 3.0
Available water supply, 0 to 60 inches: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R077DY047TX - Sandy Loam 12-17" PZ
Hydric soil rating: No

Minor Components

Douro

Percent of map unit: 6 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077DY047TX - Sandy Loam 12-17" PZ
Other vegetative classification: Unnamed (G077DH000TX)
Hydric soil rating: No

Map Unit Description: Kimbrough-Lea complex, 0 to 3 percent slopes---Lea County, New Mexico

Kenhill

Percent of map unit: 6 percent

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: R077DY038TX - Clay Loam 12-17" PZ

Hydric soil rating: No

Spraberry

Percent of map unit: 3 percent

Landform: Playa rims, plains

Down-slope shape: Convex, linear

Across-slope shape: Linear

Ecological site: R077DY049TX - Very Shallow 12-17" PZ

Other vegetative classification: Unnamed (G077DH000TX)

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 20, Sep 6, 2023

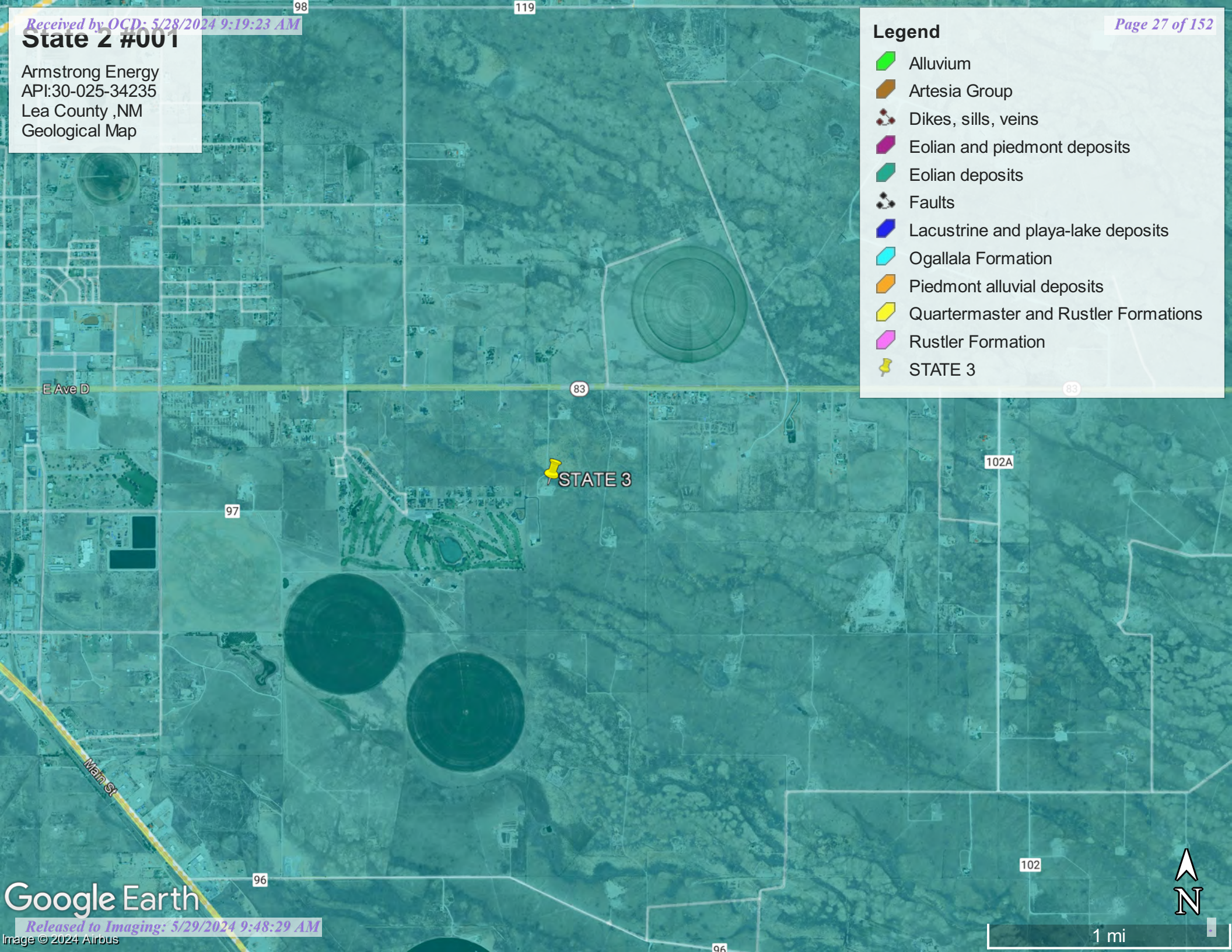


State 2 #001

Armstrong Energy
API:30-025-34235
Lea County ,NM
Geological Map

Legend

- Alluvium
- Artesia Group
- Dikes, sills, veins
- Eolian and piedmont deposits
- Eolian deposits
- Faults
- Lacustrine and playa-lake deposits
- Ogallala Formation
- Piedmont alluvial deposits
- Quartermaster and Rustler Formations
- Rustler Formation
- STATE 3



Google Earth

1 mi

(<https://www.usgs.gov/>)

Mineral Resources (<https://www.usgs.gov/energy-and-minerals/mineral-resources-program>)
/ Online Spatial Data (<https://mrdata.usgs.gov/>) / Geology (<https://mrdata.usgs.gov/geology/>)
/ by state (<https://mrdata.usgs.gov/geology/state/>)
/ New Mexico (<https://mrdata.usgs.gov/geology/state/state.php?state=NM>)

Ogallala Formation

XML (https://mrdata.usgs.gov/geology/state/xml/NMTo;0)	JSON (https://mrdata.usgs.gov/geology/state/json/NMTo;0)
Shapefile (https://mrdata.usgs.gov/geology/state/unit-shape.php?unit=NMTo;0)	

Alluvial and eolian deposits, and petrocalcic soils of the southern High Plains. Locally includes Qoa.

State	New Mexico (https://mrdata.usgs.gov/geology/state/state.php?state=NM)		
Name	Ogallala Formation		
Geologic age	Lower Pliocene to middle Miocene		
Lithologic constituents	Major		
	Unconsolidated > Coarse-detrital > Sand	(<i>Alluvial, Eolian</i>)	GEOLEX
	Minor		
	Sedimentary > Carbonate	(<i>Calcareous</i>)	<i>petrocalcic soils of the southern High Plains; marl</i>
References	<p>Green, G.N., Jones, G.E., and Anderson, O.J., 1997, The Digital Geologic Map of New Mexico in ARC/INFO Format: U.S. Geological Survey Open-File Report 97-0052, 9 p., scale 1:500,000.</p> <p>https://pubs.er.usgs.gov/publication/ofr9752 (https://pubs.er.usgs.gov/publication/ofr9752)</p> <p>USGS Geologic Names lexicon found at: http://ngmdb.usgs.gov/Geolex/ https://ngmdb.usgs.gov/Geolex/search (https://ngmdb.usgs.gov/Geolex/search)</p>		
NGMDB product	NGMDB product page for 22974 (https://ngmdb.usgs.gov/Prodesc/proddesc_22974.htm)		

Counties Chaves (<https://mrdata.usgs.gov/geology/state/fips-unit.php?code=f35005>) - Colfax
(<https://mrdata.usgs.gov/geology/state/fips-unit.php?code=f35007>) - Curry
(<https://mrdata.usgs.gov/geology/state/fips-unit.php?code=f35009>) - DeBaca
(<https://mrdata.usgs.gov/geology/state/fips-unit.php?code=f35011>) - Eddy
(<https://mrdata.usgs.gov/geology/state/fips-unit.php?code=f35015>) - Guadalupe
(<https://mrdata.usgs.gov/geology/state/fips-unit.php?code=f35019>) - Harding
(<https://mrdata.usgs.gov/geology/state/fips-unit.php?code=f35021>) - Lea
(<https://mrdata.usgs.gov/geology/state/fips-unit.php?code=f35025>) - Lincoln
(<https://mrdata.usgs.gov/geology/state/fips-unit.php?code=f35027>) - Mora
(<https://mrdata.usgs.gov/geology/state/fips-unit.php?code=f35033>) - Quay
(<https://mrdata.usgs.gov/geology/state/fips-unit.php?code=f35037>) - Roosevelt
(<https://mrdata.usgs.gov/geology/state/fips-unit.php?code=f35041>) - San Miguel
(<https://mrdata.usgs.gov/geology/state/fips-unit.php?code=f35047>) - Tarrant
(<https://mrdata.usgs.gov/geology/state/fips-unit.php?code=f35057>) - Union
(<https://mrdata.usgs.gov/geology/state/fips-unit.php?code=f35059>)

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Accessibility (<https://www2.usgs.gov/laws/accessibility.html>) | Site Map (<https://www.usgs.gov/sitemap.html>) |

Contact USGS (<https://answers.usgs.gov/>)

U.S. Department of the Interior (<https://www.doi.gov/>) | DOI Inspector General (<https://www.doiig.gov/>) |

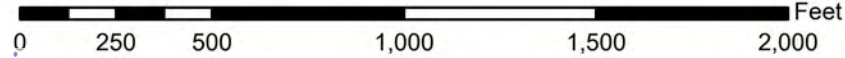
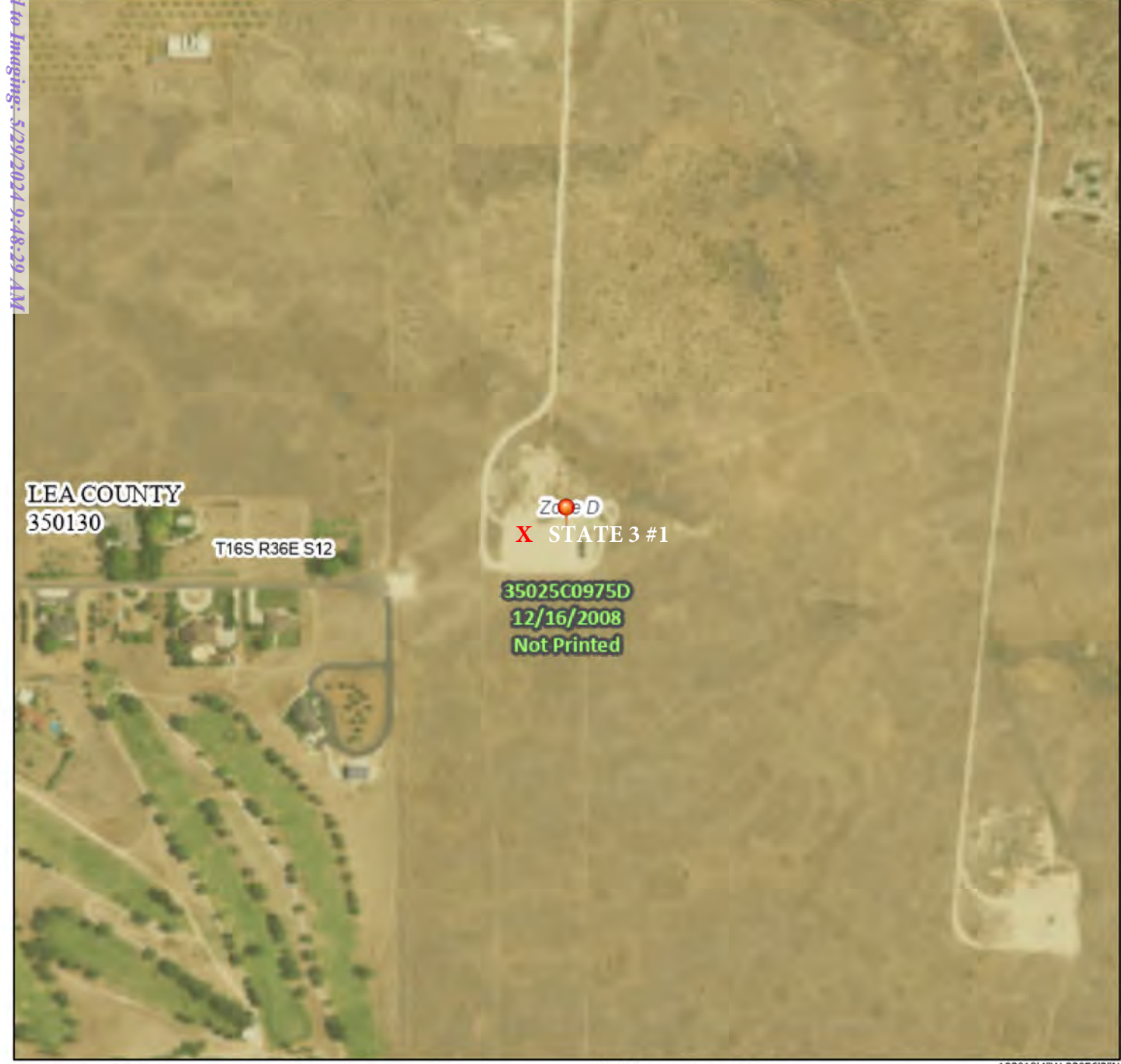
White House (<https://www.whitehouse.gov/>) | E-gov (<https://www.whitehouse.gov/omb/management/egov/>) |

No Fear Act (<https://www.doi.gov/pmb/eeo/no-fear-act>) | FOIA (<https://www2.usgs.gov/foia>)

National Flood Hazard Layer FIRMette



103°18'42"W 32°56'32"N



1:6,000

103°18'4"W 32°56'2"N

Basemap Imagery Source: USGS National Map 2023

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile
		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 X
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		Cross Sections with 1% Annual Chance Water Surface Elevation
		Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		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 5/10/2024 at 2:15 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Released to Imaging: 5/29/2024 9:48:29 AM

Received by OCD: 5/28/2024 9:19:23 AM

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May 10, 2024

Wetlands

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

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



Pima Environmental Services

Appendix C
48-Hour Notification

OCD Permitting

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	330532	Districts:	Hobbs
Operator:	[1092] ARMSTRONG ENERGY CORP	Counties:	Lea
Description:	ARMSTRONG ENERGY CORP [1092] , State 3 #001 , nAPP2408179114		
Status:	APPROVED		
Status Date:	04/05/2024		
References (2):	30-025-34238, nAPP2408179114		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2408179114
Incident Name	NAPP2408179114 STATE 3 #001 @ 30-025-34238
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-34238] STATE 3 #001

Location of Release Source

Site Name	State 3 #001
Date Release Discovered	03/21/2024
Surface Owner	Private

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	9,000
What is the estimated number of samples that will be gathered	53
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19,15,29.12 NMAC	04/08/2024
Time sampling will commence	08:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers

Please provide any information necessary for navigation to sampling site

Sebastian Orozco Project Manager 5614 N Lovington Hwy, Hobbs, NM 88240 Sebastian@pimaoil.com 619-72

The State 3 #001 is located approximately two and a half (2.5) miles east of Lovington, NM. This spill site is in 12, Township 16S, Range 36E, Latitude 32.9383049, Longitude -103.306366, Lea County, NM.

Comments

No comments found for this submission.

Conditions

Summary: *jteu (4/5/2024)*. Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

Go Back

OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	336533	Districts:	Hobbs
Operator:	[1092] ARMSTRONG ENERGY CORP	Counties:	Lea
Description:	ARMSTRONG ENERGY CORP [1092] , STATE 3 #001 , nPRS0505531372		
Status:	APPROVED		
Status Date:	04/23/2024		
References (2):	30-025-34238, nPRS0505531372		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nPRS0505531372
Incident Name	NPRS0505531372 STATE 3 #001 @ 30-025-34238
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-34238] STATE 3 #001

Location of Release Source

Site Name	STATE 3 #001
Date Release Discovered	10/13/2004
Surface Owner	Private

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	4,760
What is the estimated number of samples that will be gathered	33
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/08/2024
Time sampling will commence	08:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	Sebastian Orozco 619-721-4813 cell
Please provide any information necessary for navigation to sampling site	The State 3 #001 is located approximately two and a half (2.5) miles east of Lovington, NM. This spill site is in 12, Township 16S, Range 36E, Latitude 32.9383049, Longitude -103.306366, Lea County, NM.

Comments

No comments found for this submission.

Conditions

Summary: *jteu* (4/23/2024). Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

Go Back



Pima Environmental Services

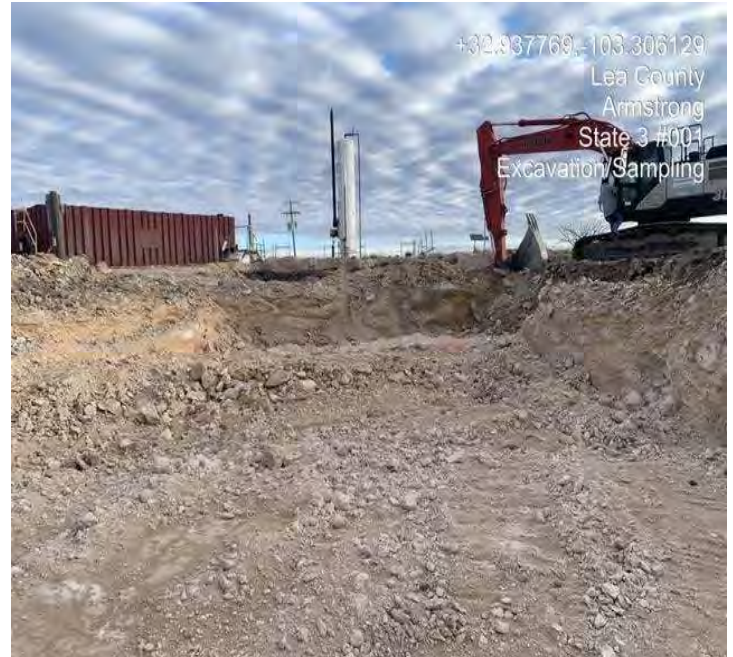
Appendix D

Photographic Documentation



**SITE PHOTOGRAPHS
PIMA ENVIRONMENTAL**

State 3 #001







Post Excavation:







Pima Environmental Services

Appendix E

Laboratory Reports

Report to:
Gio Gomez



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: State 3 # 001

Work Order: E404058

Job Number: 22093-0001

Received: 4/10/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/17/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 4/17/24

Gio Gomez
PO Box 247
Plains, TX 79355-0247



Project Name: State 3 # 001
Workorder: E404058
Date Received: 4/10/2024 6:00:00AM

Gio Gomez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/10/2024 6:00:00AM, under the Project Name: State 3 # 001.

The analytical test results summarized in this report with the Project Name: State 3 # 001 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
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Alexa Michaels
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Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported: 04/17/24 09:29
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS1	E404058-01A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CS2	E404058-02A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CS3	E404058-03A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CS4	E404058-04A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CS5	E404058-05A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CS6	E404058-06A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CS7	E404058-07A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CS8	E404058-08A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CS9	E404058-09A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CS10	E404058-10A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CS11	E404058-11A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CS12	E404058-12A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CS13	E404058-13A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CS14	E404058-14A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CS15	E404058-15A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CS16	E404058-16A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CS17	E404058-17A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CS18	E404058-18A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CS19	E404058-19A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CS20	E404058-20A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CS21	E404058-21A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CS22	E404058-22A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CS23	E404058-23A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CS24	E404058-24A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CS25	E404058-25A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CSW1	E404058-26A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CSW2	E404058-27A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CSW3	E404058-28A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CSW4	E404058-29A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CSW5	E404058-30A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CSW6	E404058-31A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CSW7	E404058-32A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
CSW8	E404058-33A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: State 3 # 001 Project Number: 22093-0001 Project Manager: Gio Gomez	Reported: 4/17/2024 9:29:46AM
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CS1
E404058-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS		Batch: 2415029	
Benzene	ND	0.0250	1	04/10/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/10/24	
Toluene	ND	0.0250	1	04/10/24	04/10/24	
o-Xylene	ND	0.0250	1	04/10/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/10/24	
Surrogate: Bromofluorobenzene	90.6 %	70-130		04/10/24	04/10/24	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		04/10/24	04/10/24	
Surrogate: Toluene-d8	94.1 %	70-130		04/10/24	04/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2415029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/10/24	
Surrogate: Bromofluorobenzene	90.6 %	70-130		04/10/24	04/10/24	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		04/10/24	04/10/24	
Surrogate: Toluene-d8	94.1 %	70-130		04/10/24	04/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2415027	
Diesel Range Organics (C10-C28)	214	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	84.0	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane	110 %	50-200		04/10/24	04/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2415032	
Chloride	ND	20.0	1	04/10/24	04/10/24	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported: 4/17/2024 9:29:46AM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CS2

E404058-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Benzene	ND	0.0250	1	04/10/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/10/24	
Toluene	ND	0.0250	1	04/10/24	04/10/24	
o-Xylene	ND	0.0250	1	04/10/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/10/24	
Surrogate: Bromofluorobenzene	86.4 %	70-130		04/10/24	04/10/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/10/24	04/10/24	
Surrogate: Toluene-d8	94.4 %	70-130		04/10/24	04/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/10/24	
Surrogate: Bromofluorobenzene	86.4 %	70-130		04/10/24	04/10/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/10/24	04/10/24	
Surrogate: Toluene-d8	94.4 %	70-130		04/10/24	04/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2415027
Diesel Range Organics (C10-C28)	328	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	129	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane	108 %	50-200		04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2415032
Chloride	ND	20.0	1	04/10/24	04/10/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported: 4/17/2024 9:29:46AM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CS3

E404058-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2415029	
Benzene	ND	0.0250	1	04/10/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/10/24	
Toluene	ND	0.0250	1	04/10/24	04/10/24	
o-Xylene	ND	0.0250	1	04/10/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/10/24	
Surrogate: Bromofluorobenzene	86.8 %	70-130		04/10/24	04/10/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/10/24	04/10/24	
Surrogate: Toluene-d8	96.4 %	70-130		04/10/24	04/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2415029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/10/24	
Surrogate: Bromofluorobenzene	86.8 %	70-130		04/10/24	04/10/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/10/24	04/10/24	
Surrogate: Toluene-d8	96.4 %	70-130		04/10/24	04/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2415027	
Diesel Range Organics (C10-C28)	474	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	184	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane	108 %	50-200		04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2415032	
Chloride	ND	20.0	1	04/10/24	04/10/24	



Sample Data

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

Project Name: State 3 # 001
Project Number: 22093-0001
Project Manager: Gio Gomez

Reported:
4/17/2024 9:29:46AM

CS4

E404058-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	87.7 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	96.9 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	87.7 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	96.9 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2415027
Diesel Range Organics (C10-C28)	404	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	166	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane	109 %	50-200		04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2415032
Chloride	ND	20.0	1	04/10/24	04/10/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported: 4/17/2024 9:29:46AM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CS5
E404058-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	86.4 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	96.6 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	86.4 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	96.6 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2415027
Diesel Range Organics (C10-C28)	325	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	142	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane	106 %	50-200		04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2415032
Chloride	ND	20.0	1	04/10/24	04/10/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported: 4/17/2024 9:29:46AM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CS6

E404058-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	87.0 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	95.9 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	87.0 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	95.9 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2415027
Diesel Range Organics (C10-C28)	149	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	65.9	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane	95.2 %	50-200		04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2415032
Chloride	ND	20.0	1	04/10/24	04/10/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported: 4/17/2024 9:29:46AM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CS7

E404058-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	87.9 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	97.1 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	87.9 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	97.1 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2415027
Diesel Range Organics (C10-C28)	364	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	140	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane	110 %	50-200		04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2415032
Chloride	24.6	20.0	1	04/10/24	04/10/24	



Sample Data

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

Project Name: State 3 # 001
Project Number: 22093-0001
Project Manager: Gio Gomez

Reported:
4/17/2024 9:29:46AM

CS8

E404058-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	88.9 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	95.8 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	88.9 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	95.8 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2415027
Diesel Range Organics (C10-C28)	394	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	160	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane	111 %	50-200		04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2415032
Chloride	22.2	20.0	1	04/10/24	04/10/24	



Sample Data

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

Project Name: State 3 # 001
Project Number: 22093-0001
Project Manager: Gio Gomez

Reported:
4/17/2024 9:29:46AM

CS9

E404058-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	87.5 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	94.3 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	87.5 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	94.3 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2415027
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane	107 %	50-200		04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2415032
Chloride	ND	20.0	1	04/10/24	04/10/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported: 4/17/2024 9:29:46AM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CS10

E404058-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	83.9 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	97.2 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	83.9 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	97.2 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2415027
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane	103 %	50-200		04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2415032
Chloride	ND	20.0	1	04/10/24	04/10/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported: 4/17/2024 9:29:46AM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CS11

E404058-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2415029	
Benzene	ND	0.0250	1	04/10/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/10/24	
Toluene	ND	0.0250	1	04/10/24	04/10/24	
o-Xylene	ND	0.0250	1	04/10/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/10/24	
Surrogate: Bromofluorobenzene	87.6 %	70-130		04/10/24	04/10/24	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/10/24	04/10/24	
Surrogate: Toluene-d8	97.4 %	70-130		04/10/24	04/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2415029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/10/24	
Surrogate: Bromofluorobenzene	87.6 %	70-130		04/10/24	04/10/24	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/10/24	04/10/24	
Surrogate: Toluene-d8	97.4 %	70-130		04/10/24	04/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2415027	
Diesel Range Organics (C10-C28)	433	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	180	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane	108 %	50-200		04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2415032	
Chloride	ND	20.0	1	04/10/24	04/10/24	



Sample Data

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

Project Name: State 3 # 001
Project Number: 22093-0001
Project Manager: Gio Gomez

Reported:
4/17/2024 9:29:46AM

CS12

E404058-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	88.0 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	94.9 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	88.0 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	94.9 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2415027
Diesel Range Organics (C10-C28)	390	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	174	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane	106 %	50-200		04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2415032
Chloride	ND	20.0	1	04/10/24	04/10/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported: 4/17/2024 9:29:46AM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CS13

E404058-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	89.7 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	101 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	89.7 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	101 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2415027
Diesel Range Organics (C10-C28)	956	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	315	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane	110 %	50-200		04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2415032
Chloride	ND	20.0	1	04/10/24	04/10/24	



Sample Data

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

Project Name: State 3 # 001
Project Number: 22093-0001
Project Manager: Gio Gomez

Reported:
4/17/2024 9:29:46AM

CS14

E404058-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	89.1 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	95.6 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	89.1 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	95.6 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2415027
Diesel Range Organics (C10-C28)	431	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	175	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane	105 %	50-200		04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2415032
Chloride	ND	20.0	1	04/10/24	04/10/24	



Sample Data

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

Project Name: State 3 # 001
Project Number: 22093-0001
Project Manager: Gio Gomez

Reported:
4/17/2024 9:29:46AM

CS15

E404058-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	88.5 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	97.1 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	88.5 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	97.1 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2415027
Diesel Range Organics (C10-C28)	596	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	246	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane	110 %	50-200		04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2415032
Chloride	21.2	20.0	1	04/10/24	04/10/24	



Sample Data

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

Project Name: State 3 # 001
Project Number: 22093-0001
Project Manager: Gio Gomez

Reported:
4/17/2024 9:29:46AM

CS16

E404058-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	88.9 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	94.9 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	88.9 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	94.9 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2415027
Diesel Range Organics (C10-C28)	658	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	261	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane	111 %	50-200		04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2415032
Chloride	21.0	20.0	1	04/10/24	04/10/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported: 4/17/2024 9:29:46AM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CS17

E404058-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	87.9 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	96.4 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	87.9 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	96.4 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2415027
Diesel Range Organics (C10-C28)	440	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	190	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane	108 %	50-200		04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2415032
Chloride	ND	20.0	1	04/10/24	04/11/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported: 4/17/2024 9:29:46AM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CS18

E404058-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	87.9 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	96.1 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	87.9 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	96.1 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2415027
Diesel Range Organics (C10-C28)	75.1	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	54.9	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane	105 %	50-200		04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2415032
Chloride	ND	20.0	1	04/10/24	04/11/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported: 4/17/2024 9:29:46AM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CS19

E404058-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	83.4 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	95.8 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415029
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	83.4 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	95.8 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2415027
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane	103 %	50-200		04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2415032
Chloride	ND	20.0	1	04/10/24	04/11/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported: 4/17/2024 9:29:46AM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CS20

E404058-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2415029	
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	88.3 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	97.9 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2415029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	88.3 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	97.9 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2415027	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane	107 %	50-200		04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2415032	
Chloride	ND	20.0	1	04/10/24	04/11/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported: 4/17/2024 9:29:46AM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CS21

E404058-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: RAS		Batch: 2415030
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene		102 %	70-130	04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	04/10/24	04/11/24	
Surrogate: Toluene-d8		106 %	70-130	04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RAS		Batch: 2415030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene		102 %	70-130	04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	04/10/24	04/11/24	
Surrogate: Toluene-d8		106 %	70-130	04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: NV		Batch: 2415038
Diesel Range Organics (C10-C28)	135	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	55.1	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		104 %	50-200	04/10/24	04/10/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: IY		Batch: 2415036
Chloride	ND	20.0	1	04/10/24	04/10/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported: 4/17/2024 9:29:46AM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CS22

E404058-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: RAS		Batch: 2415030
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	86.4 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	103 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RAS		Batch: 2415030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	86.4 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	103 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: NV		Batch: 2415038
Diesel Range Organics (C10-C28)	489	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	178	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane	106 %	50-200		04/10/24	04/10/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: IY		Batch: 2415036
Chloride	ND	20.0	1	04/10/24	04/10/24	



Sample Data

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

Project Name: State 3 # 001
Project Number: 22093-0001
Project Manager: Gio Gomez

Reported:
4/17/2024 9:29:46AM

CS23

E404058-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	86.9 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	99.2 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	86.9 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	99.2 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2415038
Diesel Range Organics (C10-C28)	478	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	173	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane	105 %	50-200		04/10/24	04/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2415036
Chloride	21.3	20.0	1	04/10/24	04/10/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported: 4/17/2024 9:29:46AM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CS24

E404058-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene		106 %	70-130	04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	04/10/24	04/11/24	
Surrogate: Toluene-d8		102 %	70-130	04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene		106 %	70-130	04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	04/10/24	04/11/24	
Surrogate: Toluene-d8		102 %	70-130	04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2415038
Diesel Range Organics (C10-C28)	323	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	134	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		109 %	50-200	04/10/24	04/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2415036
Chloride	ND	20.0	1	04/10/24	04/10/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported: 4/17/2024 9:29:46AM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CS25

E404058-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene		106 %	70-130	04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	04/10/24	04/11/24	
Surrogate: Toluene-d8		101 %	70-130	04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene		106 %	70-130	04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	04/10/24	04/11/24	
Surrogate: Toluene-d8		101 %	70-130	04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2415038
Diesel Range Organics (C10-C28)	277	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	121	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane		111 %	50-200	04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2415036
Chloride	ND	20.0	1	04/10/24	04/10/24	



Sample Data

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

Project Name: State 3 # 001
Project Number: 22093-0001
Project Manager: Gio Gomez

Reported:
4/17/2024 9:29:46AM

CSW1

E404058-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Benzene	ND	0.0500	2	04/10/24	04/11/24	
Ethylbenzene	ND	0.0500	2	04/10/24	04/11/24	
Toluene	ND	0.0500	2	04/10/24	04/11/24	
o-Xylene	ND	0.0500	2	04/10/24	04/11/24	
p,m-Xylene	ND	0.100	2	04/10/24	04/11/24	
Total Xylenes	ND	0.0500	2	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene		278 %	70-130	04/10/24	04/11/24	S3
Surrogate: 1,2-Dichloroethane-d4		193 %	70-130	04/10/24	04/11/24	
Surrogate: Toluene-d8		182 %	70-130	04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Gasoline Range Organics (C6-C10)	ND	40.0	2	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene		278 %	70-130	04/10/24	04/11/24	S3
Surrogate: 1,2-Dichloroethane-d4		193 %	70-130	04/10/24	04/11/24	
Surrogate: Toluene-d8		182 %	70-130	04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2415038
Diesel Range Organics (C10-C28)	548	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	197	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane		109 %	50-200	04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2415036
Chloride	ND	20.0	1	04/10/24	04/10/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported: 4/17/2024 9:29:46AM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW2

E404058-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS		Batch: 2415030	
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	85.5 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	103 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2415030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	85.5 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	103 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2415038	
Diesel Range Organics (C10-C28)	696	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	238	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane	106 %	50-200		04/10/24	04/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2415036	
Chloride	ND	20.0	1	04/10/24	04/10/24	



Sample Data

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

Project Name: State 3 # 001
Project Number: 22093-0001
Project Manager: Gio Gomez

Reported:
4/17/2024 9:29:46AM

CSW3

E404058-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene		107 %	70-130	04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	04/10/24	04/11/24	
Surrogate: Toluene-d8		101 %	70-130	04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene		107 %	70-130	04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	04/10/24	04/11/24	
Surrogate: Toluene-d8		101 %	70-130	04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2415038
Diesel Range Organics (C10-C28)	546	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	211	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane		107 %	50-200	04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2415036
Chloride	ND	20.0	1	04/10/24	04/10/24	



Sample Data

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

Project Name: State 3 # 001
Project Number: 22093-0001
Project Manager: Gio Gomez

Reported:
4/17/2024 9:29:46AM

CSW4

E404058-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene		107 %	70-130	04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130	04/10/24	04/11/24	
Surrogate: Toluene-d8		96.9 %	70-130	04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene		107 %	70-130	04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130	04/10/24	04/11/24	
Surrogate: Toluene-d8		96.9 %	70-130	04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2415038
Diesel Range Organics (C10-C28)	487	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	182	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane		107 %	50-200	04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2415036
Chloride	ND	20.0	1	04/10/24	04/10/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported: 4/17/2024 9:29:46AM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW5

E404058-30

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene		107 %	70-130	04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	04/10/24	04/11/24	
Surrogate: Toluene-d8		101 %	70-130	04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene		107 %	70-130	04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	04/10/24	04/11/24	
Surrogate: Toluene-d8		101 %	70-130	04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2415038
Diesel Range Organics (C10-C28)	533	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	197	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane		107 %	50-200	04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2415036
Chloride	ND	20.0	1	04/10/24	04/10/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported: 4/17/2024 9:29:46AM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW6

E404058-31

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene		110 %	70-130	04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	04/10/24	04/11/24	
Surrogate: Toluene-d8		98.8 %	70-130	04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene		110 %	70-130	04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	04/10/24	04/11/24	
Surrogate: Toluene-d8		98.8 %	70-130	04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2415038
Diesel Range Organics (C10-C28)	523	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	199	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane		102 %	50-200	04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2415036
Chloride	ND	20.0	1	04/10/24	04/10/24	



Sample Data

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

Project Name: State 3 # 001
Project Number: 22093-0001
Project Manager: Gio Gomez

Reported:
4/17/2024 9:29:46AM

CSW7

E404058-32

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene		109 %	70-130	04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	04/10/24	04/11/24	
Surrogate: Toluene-d8		98.0 %	70-130	04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene		109 %	70-130	04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	04/10/24	04/11/24	
Surrogate: Toluene-d8		98.0 %	70-130	04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2415038
Diesel Range Organics (C10-C28)	654	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	239	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane		100 %	50-200	04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2415036
Chloride	ND	20.0	1	04/10/24	04/10/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported: 4/17/2024 9:29:46AM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW8

E404058-33

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	97.1 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	87.1 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2415030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: Bromofluorobenzene	97.1 %	70-130		04/10/24	04/11/24	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		04/10/24	04/11/24	
Surrogate: Toluene-d8	87.1 %	70-130		04/10/24	04/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2415038
Diesel Range Organics (C10-C28)	875	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	297	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane	106 %	50-200		04/10/24	04/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2415036
Chloride	ND	20.0	1	04/10/24	04/10/24	



Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported: 4/17/2024 9:29:46AM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Volatile Organic Compounds by EPA 8260B

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2415029-BLK1) Prepared: 04/10/24 Analyzed: 04/10/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.441		0.500		88.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.469		0.500		93.8	70-130			

LCS (2415029-BS1) Prepared: 04/10/24 Analyzed: 04/10/24

Benzene	2.11	0.0250	2.50		84.3	70-130			
Ethylbenzene	2.26	0.0250	2.50		90.2	70-130			
Toluene	2.34	0.0250	2.50		93.7	70-130			
o-Xylene	2.22	0.0250	2.50		88.7	70-130			
p,m-Xylene	4.49	0.0500	5.00		89.8	70-130			
Total Xylenes	6.71	0.0250	7.50		89.4	70-130			
Surrogate: Bromofluorobenzene	0.427		0.500		85.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.450		0.500		89.9	70-130			

Matrix Spike (2415029-MS1) Source: E404058-11 Prepared: 04/10/24 Analyzed: 04/10/24

Benzene	2.28	0.0250	2.50	ND	91.3	48-131			
Ethylbenzene	2.28	0.0250	2.50	ND	91.3	45-135			
Toluene	2.37	0.0250	2.50	ND	94.7	48-130			
o-Xylene	2.23	0.0250	2.50	ND	89.1	43-135			
p,m-Xylene	4.51	0.0500	5.00	ND	90.2	43-135			
Total Xylenes	6.74	0.0250	7.50	ND	89.9	43-135			
Surrogate: Bromofluorobenzene	0.439		0.500		87.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.470		0.500		94.0	70-130			

Matrix Spike Dup (2415029-MSD1) Source: E404058-11 Prepared: 04/10/24 Analyzed: 04/10/24

Benzene	2.24	0.0250	2.50	ND	89.6	48-131	1.84	23	
Ethylbenzene	2.29	0.0250	2.50	ND	91.5	45-135	0.306	27	
Toluene	2.40	0.0250	2.50	ND	96.0	48-130	1.43	24	
o-Xylene	2.28	0.0250	2.50	ND	91.3	43-135	2.40	27	
p,m-Xylene	4.60	0.0500	5.00	ND	91.9	43-135	1.83	27	
Total Xylenes	6.88	0.0250	7.50	ND	91.7	43-135	2.02	27	
Surrogate: Bromofluorobenzene	0.440		0.500		88.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.453		0.500		90.5	70-130			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported: 4/17/2024 9:29:46AM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Volatile Organic Compounds by EPA 8260B

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2415030-BLK1) Prepared: 04/10/24 Analyzed: 04/11/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			

LCS (2415030-BS1) Prepared: 04/10/24 Analyzed: 04/11/24

Benzene	2.57	0.0250	2.50		103	70-130			
Ethylbenzene	2.49	0.0250	2.50		99.7	70-130			
Toluene	2.29	0.0250	2.50		91.6	70-130			
o-Xylene	2.72	0.0250	2.50		109	70-130			
p,m-Xylene	5.42	0.0500	5.00		108	70-130			
Total Xylenes	8.14	0.0250	7.50		109	70-130			
Surrogate: Bromofluorobenzene	0.561		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.471		0.500		94.1	70-130			

Matrix Spike (2415030-MS1) Source: E404058-30 Prepared: 04/10/24 Analyzed: 04/11/24

Benzene	2.58	0.0250	2.50	ND	103	48-131			
Ethylbenzene	2.55	0.0250	2.50	ND	102	45-135			
Toluene	2.23	0.0250	2.50	ND	89.3	48-130			
o-Xylene	2.42	0.0250	2.50	ND	96.6	43-135			
p,m-Xylene	4.84	0.0500	5.00	ND	96.8	43-135			
Total Xylenes	7.26	0.0250	7.50	ND	96.8	43-135			
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.6	70-130			
Surrogate: Toluene-d8	0.456		0.500		91.1	70-130			

Matrix Spike Dup (2415030-MSD1) Source: E404058-30 Prepared: 04/10/24 Analyzed: 04/11/24

Benzene	2.55	0.0250	2.50	ND	102	48-131	1.40	23	
Ethylbenzene	2.52	0.0250	2.50	ND	101	45-135	1.10	27	
Toluene	2.39	0.0250	2.50	ND	95.8	48-130	7.03	24	
o-Xylene	2.59	0.0250	2.50	ND	104	43-135	7.07	27	
p,m-Xylene	5.17	0.0500	5.00	ND	103	43-135	6.60	27	
Total Xylenes	7.77	0.0250	7.50	ND	104	43-135	6.76	27	
Surrogate: Bromofluorobenzene	0.527		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.3	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.3	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported: 4/17/2024 9:29:46AM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2415029-BLK1) Prepared: 04/10/24 Analyzed: 04/10/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.441		0.500		88.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.469		0.500		93.8	70-130			

LCS (2415029-BS2) Prepared: 04/10/24 Analyzed: 04/10/24

Gasoline Range Organics (C6-C10)	55.5	20.0	50.0		111	70-130			
Surrogate: Bromofluorobenzene	0.438		0.500		87.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.482		0.500		96.3	70-130			

Matrix Spike (2415029-MS2) Source: E404058-11 Prepared: 04/10/24 Analyzed: 04/10/24

Gasoline Range Organics (C6-C10)	57.0	20.0	50.0	ND	114	70-130			
Surrogate: Bromofluorobenzene	0.417		0.500		83.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.1	70-130			

Matrix Spike Dup (2415029-MSD2) Source: E404058-11 Prepared: 04/10/24 Analyzed: 04/10/24

Gasoline Range Organics (C6-C10)	56.2	20.0	50.0	ND	112	70-130	1.38	20	
Surrogate: Bromofluorobenzene	0.409		0.500		81.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.527		0.500		105	70-130			
Surrogate: Toluene-d8	0.467		0.500		93.3	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported: 4/17/2024 9:29:46AM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2415030-BLK1) Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			

LCS (2415030-BS2) Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	64.4	20.0	50.0		129	70-130			
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

Matrix Spike (2415030-MS2) Source: E404058-30 Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	56.6	20.0	50.0	ND	113	70-130			
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.8	70-130			

Matrix Spike Dup (2415030-MSD2) Source: E404058-30 Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	56.9	20.0	50.0	ND	114	70-130	0.496	20	
Surrogate: Bromofluorobenzene	0.540		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.4	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported:
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	4/17/2024 9:29:46AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2415027-BLK1)					Prepared: 04/10/24 Analyzed: 04/11/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.7		50.0		111	50-200			

LCS (2415027-BS1)					Prepared: 04/10/24 Analyzed: 04/11/24				
Diesel Range Organics (C10-C28)	281	25.0	250		112	38-132			
Surrogate: n-Nonane	54.4		50.0		109	50-200			

LCS Dup (2415027-BSD1)					Prepared: 04/10/24 Analyzed: 04/11/24				
Diesel Range Organics (C10-C28)	288	25.0	250		115	38-132	2.31	20	
Surrogate: n-Nonane	55.4		50.0		111	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported:
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	4/17/2024 9:29:46AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2415038-BLK1)					Prepared: 04/10/24 Analyzed: 04/10/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.1		50.0		102	50-200			

LCS (2415038-BS1)					Prepared: 04/10/24 Analyzed: 04/10/24				
Diesel Range Organics (C10-C28)	258	25.0	250		103	38-132			
Surrogate: n-Nonane	50.6		50.0		101	50-200			

LCS Dup (2415038-BSD1)					Prepared: 04/10/24 Analyzed: 04/10/24				
Diesel Range Organics (C10-C28)	268	25.0	250		107	38-132	3.97	20	
Surrogate: n-Nonane	51.6		50.0		103	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported:
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	4/17/2024 9:29:46AM

Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2415032-BLK1)					Prepared: 04/10/24 Analyzed: 04/10/24				
Chloride	ND	20.0							
LCS (2415032-BS1)					Prepared: 04/10/24 Analyzed: 04/10/24				
Chloride	254	20.0	250		101	90-110			
Matrix Spike (2415032-MS1)					Source: E404058-02		Prepared: 04/10/24 Analyzed: 04/10/24		
Chloride	274	20.0	250	ND	110	80-120			
Matrix Spike Dup (2415032-MSD1)					Source: E404058-02		Prepared: 04/10/24 Analyzed: 04/10/24		
Chloride	271	20.0	250	ND	109	80-120	0.905	20	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	Reported:
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	4/17/2024 9:29:46AM

Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2415036-BLK1)					Prepared: 04/10/24 Analyzed: 04/10/24				
Chloride	ND	20.0							
LCS (2415036-BS1)					Prepared: 04/10/24 Analyzed: 04/10/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2415036-MS1)					Source: E404058-25		Prepared: 04/10/24 Analyzed: 04/10/24		
Chloride	262	20.0	250	ND	105	80-120			
Matrix Spike Dup (2415036-MSD1)					Source: E404058-25		Prepared: 04/10/24 Analyzed: 04/10/24		
Chloride	263	20.0	250	ND	105	80-120	0.459	20	

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



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	State 3 # 001	
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	04/17/24 09:29

- S3 Surrogate spike recovery was outside acceptance limits. LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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

Project Information

Chain of Custody

Page 1 of 4

Client: Pima Environmental Services Project: State 3 #001 Project Manager: Gio Gomez Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 806-782-1151 Email: gio@pimaoil.com Report due by:					Bill To Attention: Armstrong Energy Address: City, State, Zip: Phone: Email: Pima Project # 19-18					Lab Use Only 22093-0001 Lab WO# E404058 Job Number 21064-0001 TAT Standard EPA Program CWA SDWA RCRA State NM CO UT AZ TX									
					Analysis and Method DRO/RO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BDOC NM BDOC TX														
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks													
8:07	4/8	S	1	CS1	1	X													
8:13				CS2	2														
8:26				CS3	3														
8:39				CS4	4														
8:51				CS5	5														
9:16				CS6	6														
9:25				CS7	7														
9:38				CS8	8														
9:51				CS9	9														
9:58				CS10	10														
Additional Instructions: <i>Bill Armstrong</i>																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Relinquished by: (Signature) <i>Carime Hame</i> Date 4/9/24 Time 12:30 Relinquished by: (Signature) <i>Michelle Gonzales</i> Date 4-9-24 Time 1622 Relinquished by: (Signature) <i>A.M.</i> Date 4.9.24 Time 2330																			
Received by: (Signature) <i>Michelle Gonzales</i> Date 4-9-24 Time 1230 Received by: (Signature) <i>A.M.</i> Date 4.9.24 Time 1715 Received by: (Signature) <i>Myloph R Helle</i> Date 4/10/24 Time 0600																			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			


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Project Information

Chain of Custody

Page 2 of 4

Client: Pima Environmental Services Project: State 3 #001 Project Manager: Gio Gomez Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 806-782-1151 Email: gio@pimaoil.com Report due by:					Bill To Attention: Armstrong Energy Address: City, State, Zip: Phone: Email: Pima Project # 19-18					Lab Use Only 22093-0001 Lab WO# E404058 Job Number 21064-0001					TAT 1D 2D 3D Standard X				EPA Program CWA SDWA																				
										Analysis and Method DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM BGDOC TX					State NM CO UT AZ TX X				RCRA																				
Time Sampled 10:11 10:21 10:28 10:39 10:46 10:53 11:16 11:31 11:46 11:59					Date Sampled 4/8 					Matrix S 					No. of Containers 1 					Sample ID CS11 CS12 CS13 CS14 CS15 CS16 CS17 CS18 CS19 CS20					Lab Number 11 12 13 14 15 16 17 18 19 20														
Additional Instructions: Bill Armstrong																																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																																							
Relinquished by: (Signature) Karime Adams Date 4/9/24 Time 12:30										Relinquished by: (Signature) Michelle Gonzales Date 4-9-24 Time 1622										Relinquished by: (Signature) J.H. Date 4.9.24 Time 1715					Relinquished by: (Signature) Karime Adams Date 4/10/24 Time 0600														
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																																							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																																							


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Envirotech Analytical Laboratory

Printed: 4/10/2024 1:13:43PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	04/10/24 06:00	Work Order ID:	E404058
Phone:	(575) 631-6977	Date Logged In:	04/09/24 17:01	Logged In By:	Angelina Pineda
Email:	gio@pimaoil.com	Due Date:	04/16/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client InstructionComments/Resolution

No. of containers and Sampled by not documented on COC by client

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

Date



envirotech Inc.

Report to:
Gio Gomez



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: State 3 #1

Work Order: E404302

Job Number: 22093-0001

Received: 5/1/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/7/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 5/7/24

Gio Gomez
PO Box 247
Plains, TX 79355-0247



Project Name: State 3 #1
Workorder: E404302
Date Received: 5/1/2024 5:30:00AM

Gio Gomez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/1/2024 5:30:00AM, under the Project Name: State 3 #1.

The analytical test results summarized in this report with the Project Name: State 3 #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

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Laboratory Administrator
Office: 505-632-1881
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mgonzales@envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	State 3 #1	Reported: 05/07/24 11:38
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
HD1 -1'	E404302-01A	Soil	04/30/24	05/01/24	Glass Jar, 2 oz.
HD1 -2'	E404302-02A	Soil	04/30/24	05/01/24	Glass Jar, 2 oz.
HD2 -1'	E404302-03A	Soil	04/30/24	05/01/24	Glass Jar, 2 oz.
HD2 -2'	E404302-04A	Soil	04/30/24	05/01/24	Glass Jar, 2 oz.
HD3 -1'	E404302-05A	Soil	04/30/24	05/01/24	Glass Jar, 2 oz.
HD3 -2'	E404302-06A	Soil	04/30/24	05/01/24	Glass Jar, 2 oz.
HD4 -1'	E404302-07A	Soil	04/30/24	05/01/24	Glass Jar, 2 oz.
HD4 -2'	E404302-08A	Soil	04/30/24	05/01/24	Glass Jar, 2 oz.
HD5 -1'	E404302-09A	Soil	04/30/24	05/01/24	Glass Jar, 2 oz.
HD5 2'	E404302-10A	Soil	04/30/24	05/01/24	Glass Jar, 2 oz.
HD6 -1'	E404302-11A	Soil	04/30/24	05/01/24	Glass Jar, 2 oz.
HD6 -2'	E404302-12A	Soil	04/30/24	05/01/24	Glass Jar, 2 oz.
HD7 -1'	E404302-13A	Soil	04/30/24	05/01/24	Glass Jar, 2 oz.
HD7 -2'	E404302-14A	Soil	04/30/24	05/01/24	Glass Jar, 2 oz.
HD8 -1'	E404302-15A	Soil	04/30/24	05/01/24	Glass Jar, 2 oz.
HD8 -2	E404302-16A	Soil	04/30/24	05/01/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: State 3 #1
Project Number: 22093-0001
Project Manager: Gio Gomez

Reported:
5/7/2024 11:38:44AM

HD1 -1'

E404302-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Benzene	ND	0.0250	1	05/02/24	05/03/24	
Ethylbenzene	ND	0.0250	1	05/02/24	05/03/24	
Toluene	ND	0.0250	1	05/02/24	05/03/24	
o-Xylene	ND	0.0250	1	05/02/24	05/03/24	
p,m-Xylene	ND	0.0500	1	05/02/24	05/03/24	
Total Xylenes	ND	0.0250	1	05/02/24	05/03/24	
Surrogate: Bromofluorobenzene		105 %	70-130	05/02/24	05/03/24	
Surrogate: 1,2-Dichloroethane-d4		99.3 %	70-130	05/02/24	05/03/24	
Surrogate: Toluene-d8		98.5 %	70-130	05/02/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/02/24	05/03/24	
Surrogate: Bromofluorobenzene		105 %	70-130	05/02/24	05/03/24	
Surrogate: 1,2-Dichloroethane-d4		99.3 %	70-130	05/02/24	05/03/24	
Surrogate: Toluene-d8		98.5 %	70-130	05/02/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2418058
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/04/24	
Surrogate: n-Nonane		110 %	50-200	05/03/24	05/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2418111
Chloride	ND	20.0	1	05/02/24	05/03/24	



Sample Data

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

Project Name: State 3 #1
Project Number: 22093-0001
Project Manager: Gio Gomez

Reported:
5/7/2024 11:38:44AM

HD1 -2'

E404302-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Benzene	ND	0.0250	1	05/02/24	05/03/24	
Ethylbenzene	ND	0.0250	1	05/02/24	05/03/24	
Toluene	ND	0.0250	1	05/02/24	05/03/24	
o-Xylene	ND	0.0250	1	05/02/24	05/03/24	
p,m-Xylene	ND	0.0500	1	05/02/24	05/03/24	
Total Xylenes	ND	0.0250	1	05/02/24	05/03/24	
Surrogate: Bromofluorobenzene		109 %	70-130	05/02/24	05/03/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	05/02/24	05/03/24	
Surrogate: Toluene-d8		99.2 %	70-130	05/02/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/02/24	05/03/24	
Surrogate: Bromofluorobenzene		109 %	70-130	05/02/24	05/03/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	05/02/24	05/03/24	
Surrogate: Toluene-d8		99.2 %	70-130	05/02/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2418058
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/04/24	
Surrogate: n-Nonane		111 %	50-200	05/03/24	05/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2418111
Chloride	ND	20.0	1	05/02/24	05/03/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 #1	Reported: 5/7/2024 11:38:44AM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

HD2 -1'

E404302-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Benzene	ND	0.0250	1	05/02/24	05/04/24	
Ethylbenzene	ND	0.0250	1	05/02/24	05/04/24	
Toluene	ND	0.0250	1	05/02/24	05/04/24	
o-Xylene	ND	0.0250	1	05/02/24	05/04/24	
p,m-Xylene	ND	0.0500	1	05/02/24	05/04/24	
Total Xylenes	ND	0.0250	1	05/02/24	05/04/24	
Surrogate: Bromofluorobenzene		103 %	70-130	05/02/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		99.3 %	70-130	05/02/24	05/04/24	
Surrogate: Toluene-d8		101 %	70-130	05/02/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/02/24	05/04/24	
Surrogate: Bromofluorobenzene		103 %	70-130	05/02/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		99.3 %	70-130	05/02/24	05/04/24	
Surrogate: Toluene-d8		101 %	70-130	05/02/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2418058
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/04/24	
Surrogate: n-Nonane		115 %	50-200	05/03/24	05/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2418111
Chloride	ND	20.0	1	05/02/24	05/03/24	



Sample Data

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

Project Name: State 3 #1
Project Number: 22093-0001
Project Manager: Gio Gomez

Reported:
5/7/2024 11:38:44AM

HD2 -2'

E404302-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Benzene	ND	0.0250	1	05/02/24	05/04/24	
Ethylbenzene	ND	0.0250	1	05/02/24	05/04/24	
Toluene	ND	0.0250	1	05/02/24	05/04/24	
o-Xylene	ND	0.0250	1	05/02/24	05/04/24	
p,m-Xylene	ND	0.0500	1	05/02/24	05/04/24	
Total Xylenes	ND	0.0250	1	05/02/24	05/04/24	
Surrogate: Bromofluorobenzene		105 %	70-130	05/02/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	05/02/24	05/04/24	
Surrogate: Toluene-d8		99.0 %	70-130	05/02/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/02/24	05/04/24	
Surrogate: Bromofluorobenzene		105 %	70-130	05/02/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	05/02/24	05/04/24	
Surrogate: Toluene-d8		99.0 %	70-130	05/02/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2418058
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/04/24	
Surrogate: n-Nonane		116 %	50-200	05/03/24	05/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2418111
Chloride	ND	20.0	1	05/02/24	05/03/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 #1	Reported: 5/7/2024 11:38:44AM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

HD3 -1'

E404302-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Benzene	ND	0.0250	1	05/02/24	05/04/24	
Ethylbenzene	ND	0.0250	1	05/02/24	05/04/24	
Toluene	ND	0.0250	1	05/02/24	05/04/24	
o-Xylene	ND	0.0250	1	05/02/24	05/04/24	
p,m-Xylene	ND	0.0500	1	05/02/24	05/04/24	
Total Xylenes	ND	0.0250	1	05/02/24	05/04/24	
Surrogate: Bromofluorobenzene		108 %	70-130	05/02/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130	05/02/24	05/04/24	
Surrogate: Toluene-d8		98.7 %	70-130	05/02/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/02/24	05/04/24	
Surrogate: Bromofluorobenzene		108 %	70-130	05/02/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130	05/02/24	05/04/24	
Surrogate: Toluene-d8		98.7 %	70-130	05/02/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2418058
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/04/24	
Surrogate: n-Nonane		107 %	50-200	05/03/24	05/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2418111
Chloride	ND	20.0	1	05/02/24	05/03/24	



Sample Data

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

Project Name: State 3 #1
Project Number: 22093-0001
Project Manager: Gio Gomez

Reported:
5/7/2024 11:38:44AM

HD3 -2'

E404302-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Benzene	ND	0.0250	1	05/02/24	05/03/24	
Ethylbenzene	ND	0.0250	1	05/02/24	05/03/24	
Toluene	ND	0.0250	1	05/02/24	05/03/24	
o-Xylene	ND	0.0250	1	05/02/24	05/03/24	
p,m-Xylene	ND	0.0500	1	05/02/24	05/03/24	
Total Xylenes	ND	0.0250	1	05/02/24	05/03/24	
Surrogate: Bromofluorobenzene		106 %	70-130	05/02/24	05/03/24	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130	05/02/24	05/03/24	
Surrogate: Toluene-d8		99.5 %	70-130	05/02/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/02/24	05/03/24	
Surrogate: Bromofluorobenzene		106 %	70-130	05/02/24	05/03/24	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130	05/02/24	05/03/24	
Surrogate: Toluene-d8		99.5 %	70-130	05/02/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2418058
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/04/24	
Surrogate: n-Nonane		112 %	50-200	05/03/24	05/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2418111
Chloride	ND	20.0	1	05/02/24	05/03/24	



Sample Data

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

Project Name: State 3 #1
Project Number: 22093-0001
Project Manager: Gio Gomez

Reported:
5/7/2024 11:38:44AM

HD4 -1'

E404302-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Benzene	ND	0.0250	1	05/02/24	05/04/24	
Ethylbenzene	ND	0.0250	1	05/02/24	05/04/24	
Toluene	ND	0.0250	1	05/02/24	05/04/24	
o-Xylene	ND	0.0250	1	05/02/24	05/04/24	
p,m-Xylene	ND	0.0500	1	05/02/24	05/04/24	
Total Xylenes	ND	0.0250	1	05/02/24	05/04/24	
Surrogate: Bromofluorobenzene		108 %	70-130	05/02/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	05/02/24	05/04/24	
Surrogate: Toluene-d8		99.9 %	70-130	05/02/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/02/24	05/04/24	
Surrogate: Bromofluorobenzene		108 %	70-130	05/02/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	05/02/24	05/04/24	
Surrogate: Toluene-d8		99.9 %	70-130	05/02/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2418058
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/04/24	
Surrogate: n-Nonane		116 %	50-200	05/03/24	05/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2418111
Chloride	ND	20.0	1	05/02/24	05/03/24	



Sample Data

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

Project Name: State 3 #1
Project Number: 22093-0001
Project Manager: Gio Gomez

Reported:
5/7/2024 11:38:44AM

HD4 -2'

E404302-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Benzene	ND	0.0250	1	05/02/24	05/04/24	
Ethylbenzene	ND	0.0250	1	05/02/24	05/04/24	
Toluene	ND	0.0250	1	05/02/24	05/04/24	
o-Xylene	ND	0.0250	1	05/02/24	05/04/24	
p,m-Xylene	ND	0.0500	1	05/02/24	05/04/24	
Total Xylenes	ND	0.0250	1	05/02/24	05/04/24	
Surrogate: Bromofluorobenzene	86.2 %	70-130		05/02/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		05/02/24	05/04/24	
Surrogate: Toluene-d8	99.0 %	70-130		05/02/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/02/24	05/04/24	
Surrogate: Bromofluorobenzene	86.2 %	70-130		05/02/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		05/02/24	05/04/24	
Surrogate: Toluene-d8	99.0 %	70-130		05/02/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2418058
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/04/24	
Surrogate: n-Nonane	114 %	50-200		05/03/24	05/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2418111
Chloride	ND	20.0	1	05/02/24	05/03/24	



Sample Data

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

Project Name: State 3 #1
Project Number: 22093-0001
Project Manager: Gio Gomez

Reported:
5/7/2024 11:38:44AM

HD5 -1'

E404302-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Benzene	ND	0.0250	1	05/02/24	05/04/24	
Ethylbenzene	ND	0.0250	1	05/02/24	05/04/24	
Toluene	ND	0.0250	1	05/02/24	05/04/24	
o-Xylene	ND	0.0250	1	05/02/24	05/04/24	
p,m-Xylene	ND	0.0500	1	05/02/24	05/04/24	
Total Xylenes	ND	0.0250	1	05/02/24	05/04/24	
Surrogate: Bromofluorobenzene		104 %	70-130	05/02/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	05/02/24	05/04/24	
Surrogate: Toluene-d8		99.0 %	70-130	05/02/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/02/24	05/04/24	
Surrogate: Bromofluorobenzene		104 %	70-130	05/02/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	05/02/24	05/04/24	
Surrogate: Toluene-d8		99.0 %	70-130	05/02/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2418058
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/04/24	
Surrogate: n-Nonane		118 %	50-200	05/03/24	05/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2418111
Chloride	ND	20.0	1	05/02/24	05/03/24	



Sample Data

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

Project Name: State 3 #1
Project Number: 22093-0001
Project Manager: Gio Gomez

Reported:
5/7/2024 11:38:44AM

HD5 2'

E404302-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Benzene	ND	0.0250	1	05/02/24	05/04/24	
Ethylbenzene	ND	0.0250	1	05/02/24	05/04/24	
Toluene	ND	0.0250	1	05/02/24	05/04/24	
o-Xylene	ND	0.0250	1	05/02/24	05/04/24	
p,m-Xylene	ND	0.0500	1	05/02/24	05/04/24	
Total Xylenes	ND	0.0250	1	05/02/24	05/04/24	
Surrogate: Bromofluorobenzene		102 %	70-130	05/02/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	05/02/24	05/04/24	
Surrogate: Toluene-d8		99.4 %	70-130	05/02/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/02/24	05/04/24	
Surrogate: Bromofluorobenzene		102 %	70-130	05/02/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	05/02/24	05/04/24	
Surrogate: Toluene-d8		99.4 %	70-130	05/02/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2418058
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/04/24	
Surrogate: n-Nonane		113 %	50-200	05/03/24	05/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2418111
Chloride	ND	20.0	1	05/02/24	05/03/24	



Sample Data

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

Project Name: State 3 #1
Project Number: 22093-0001
Project Manager: Gio Gomez

Reported:
5/7/2024 11:38:44AM

HD6 -1'

E404302-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Benzene	ND	0.0250	1	05/02/24	05/04/24	
Ethylbenzene	ND	0.0250	1	05/02/24	05/04/24	
Toluene	ND	0.0250	1	05/02/24	05/04/24	
o-Xylene	ND	0.0250	1	05/02/24	05/04/24	
p,m-Xylene	ND	0.0500	1	05/02/24	05/04/24	
Total Xylenes	ND	0.0250	1	05/02/24	05/04/24	
Surrogate: Bromofluorobenzene		106 %	70-130	05/02/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	05/02/24	05/04/24	
Surrogate: Toluene-d8		100 %	70-130	05/02/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/02/24	05/04/24	
Surrogate: Bromofluorobenzene		106 %	70-130	05/02/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	05/02/24	05/04/24	
Surrogate: Toluene-d8		100 %	70-130	05/02/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2418058
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/04/24	
Surrogate: n-Nonane		109 %	50-200	05/03/24	05/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2418111
Chloride	ND	20.0	1	05/02/24	05/03/24	



Sample Data

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

Project Name: State 3 #1
Project Number: 22093-0001
Project Manager: Gio Gomez

Reported:
5/7/2024 11:38:44AM

HD6 -2'

E404302-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Benzene	ND	0.0250	1	05/02/24	05/04/24	
Ethylbenzene	ND	0.0250	1	05/02/24	05/04/24	
Toluene	ND	0.0250	1	05/02/24	05/04/24	
o-Xylene	ND	0.0250	1	05/02/24	05/04/24	
p,m-Xylene	ND	0.0500	1	05/02/24	05/04/24	
Total Xylenes	ND	0.0250	1	05/02/24	05/04/24	
Surrogate: Bromofluorobenzene		104 %	70-130	05/02/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	05/02/24	05/04/24	
Surrogate: Toluene-d8		99.8 %	70-130	05/02/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/02/24	05/04/24	
Surrogate: Bromofluorobenzene		104 %	70-130	05/02/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	05/02/24	05/04/24	
Surrogate: Toluene-d8		99.8 %	70-130	05/02/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2418058
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/04/24	
Surrogate: n-Nonane		113 %	50-200	05/03/24	05/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2418111
Chloride	ND	20.0	1	05/02/24	05/03/24	



Sample Data

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

Project Name: State 3 #1
Project Number: 22093-0001
Project Manager: Gio Gomez

Reported:
5/7/2024 11:38:44AM

HD7 -1'

E404302-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Benzene	ND	0.0250	1	05/02/24	05/04/24	
Ethylbenzene	ND	0.0250	1	05/02/24	05/04/24	
Toluene	ND	0.0250	1	05/02/24	05/04/24	
o-Xylene	ND	0.0250	1	05/02/24	05/04/24	
p,m-Xylene	ND	0.0500	1	05/02/24	05/04/24	
Total Xylenes	ND	0.0250	1	05/02/24	05/04/24	
Surrogate: Bromofluorobenzene		107 %	70-130	05/02/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	05/02/24	05/04/24	
Surrogate: Toluene-d8		99.9 %	70-130	05/02/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/02/24	05/04/24	
Surrogate: Bromofluorobenzene		107 %	70-130	05/02/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	05/02/24	05/04/24	
Surrogate: Toluene-d8		99.9 %	70-130	05/02/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2418058
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/04/24	
Surrogate: n-Nonane		111 %	50-200	05/03/24	05/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2418111
Chloride	ND	20.0	1	05/02/24	05/03/24	



Sample Data

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

Project Name: State 3 #1
Project Number: 22093-0001
Project Manager: Gio Gomez

Reported:
5/7/2024 11:38:44AM

HD7 -2'

E404302-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Benzene	ND	0.0250	1	05/02/24	05/04/24	
Ethylbenzene	ND	0.0250	1	05/02/24	05/04/24	
Toluene	ND	0.0250	1	05/02/24	05/04/24	
o-Xylene	ND	0.0250	1	05/02/24	05/04/24	
p,m-Xylene	ND	0.0500	1	05/02/24	05/04/24	
Total Xylenes	ND	0.0250	1	05/02/24	05/04/24	
Surrogate: Bromofluorobenzene		104 %	70-130	05/02/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130	05/02/24	05/04/24	
Surrogate: Toluene-d8		99.6 %	70-130	05/02/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/02/24	05/04/24	
Surrogate: Bromofluorobenzene		104 %	70-130	05/02/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130	05/02/24	05/04/24	
Surrogate: Toluene-d8		99.6 %	70-130	05/02/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2418058
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/04/24	
Surrogate: n-Nonane		116 %	50-200	05/03/24	05/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2418111
Chloride	ND	20.0	1	05/02/24	05/03/24	



Sample Data

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

Project Name: State 3 #1
Project Number: 22093-0001
Project Manager: Gio Gomez

Reported:
5/7/2024 11:38:44AM

HD8 -1'

E404302-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Benzene	ND	0.0250	1	05/02/24	05/04/24	
Ethylbenzene	ND	0.0250	1	05/02/24	05/04/24	
Toluene	ND	0.0250	1	05/02/24	05/04/24	
o-Xylene	ND	0.0250	1	05/02/24	05/04/24	
p,m-Xylene	ND	0.0500	1	05/02/24	05/04/24	
Total Xylenes	ND	0.0250	1	05/02/24	05/04/24	
Surrogate: Bromofluorobenzene		107 %	70-130	05/02/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	05/02/24	05/04/24	
Surrogate: Toluene-d8		101 %	70-130	05/02/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/02/24	05/04/24	
Surrogate: Bromofluorobenzene		107 %	70-130	05/02/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	05/02/24	05/04/24	
Surrogate: Toluene-d8		101 %	70-130	05/02/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2418058
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/04/24	
Surrogate: n-Nonane		116 %	50-200	05/03/24	05/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2418111
Chloride	ND	20.0	1	05/02/24	05/03/24	



Sample Data

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

Project Name: State 3 #1
Project Number: 22093-0001
Project Manager: Gio Gomez

Reported:
5/7/2024 11:38:44AM

HD8 -2

E404302-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Benzene	ND	0.0250	1	05/02/24	05/04/24	
Ethylbenzene	ND	0.0250	1	05/02/24	05/04/24	
Toluene	ND	0.0250	1	05/02/24	05/04/24	
o-Xylene	ND	0.0250	1	05/02/24	05/04/24	
p,m-Xylene	ND	0.0500	1	05/02/24	05/04/24	
Total Xylenes	ND	0.0250	1	05/02/24	05/04/24	
Surrogate: Bromofluorobenzene		106 %	70-130	05/02/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	05/02/24	05/04/24	
Surrogate: Toluene-d8		97.1 %	70-130	05/02/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2418086
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/02/24	05/04/24	
Surrogate: Bromofluorobenzene		106 %	70-130	05/02/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	05/02/24	05/04/24	
Surrogate: Toluene-d8		97.1 %	70-130	05/02/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2418058
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/04/24	
Surrogate: n-Nonane		115 %	50-200	05/03/24	05/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2418111
Chloride	ND	20.0	1	05/02/24	05/03/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 #1	Reported:
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/7/2024 11:38:44AM

Volatile Organic Compounds by EPA 8260B

Analyst: EG

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

Blank (2418086-BLK1) Prepared: 05/02/24 Analyzed: 05/03/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.551		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.6	70-130			
Surrogate: Toluene-d8	0.500		0.500		100	70-130			

LCS (2418086-BS1) Prepared: 05/02/24 Analyzed: 05/03/24

Benzene	2.75	0.0250	2.50		110	70-130			
Ethylbenzene	2.56	0.0250	2.50		102	70-130			
Toluene	2.44	0.0250	2.50		97.6	70-130			
o-Xylene	2.49	0.0250	2.50		99.7	70-130			
p,m-Xylene	5.02	0.0500	5.00		100	70-130			
Total Xylenes	7.51	0.0250	7.50		100	70-130			
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.4	70-130			

Matrix Spike (2418086-MS1) Source: E404302-05 Prepared: 05/02/24 Analyzed: 05/03/24

Benzene	2.81	0.0250	2.50	ND	112	48-131			
Ethylbenzene	2.59	0.0250	2.50	ND	104	45-135			
Toluene	2.48	0.0250	2.50	ND	99.0	48-130			
o-Xylene	2.53	0.0250	2.50	ND	101	43-135			
p,m-Xylene	5.11	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.65	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.8	70-130			

Matrix Spike Dup (2418086-MSD1) Source: E404302-05 Prepared: 05/02/24 Analyzed: 05/03/24

Benzene	2.79	0.0250	2.50	ND	112	48-131	0.661	23	
Ethylbenzene	2.60	0.0250	2.50	ND	104	45-135	0.289	27	
Toluene	2.48	0.0250	2.50	ND	99.0	48-130	0.0202	24	
o-Xylene	2.42	0.0250	2.50	ND	96.9	43-135	4.46	27	
p,m-Xylene	4.88	0.0500	5.00	ND	97.5	43-135	4.70	27	
Total Xylenes	7.30	0.0250	7.50	ND	97.3	43-135	4.62	27	
Surrogate: Bromofluorobenzene	0.494		0.500		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 #1	Reported:
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/7/2024 11:38:44AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2418086-BLK1) Prepared: 05/02/24 Analyzed: 05/03/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.551		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.6	70-130			
Surrogate: Toluene-d8	0.500		0.500		100	70-130			

LCS (2418086-BS2) Prepared: 05/02/24 Analyzed: 05/03/24

Gasoline Range Organics (C6-C10)	56.5	20.0	50.0		113	70-130			
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			

Matrix Spike (2418086-MS2) Source: E404302-05 Prepared: 05/02/24 Analyzed: 05/03/24

Gasoline Range Organics (C6-C10)	57.8	20.0	50.0	ND	116	70-130			
Surrogate: Bromofluorobenzene	0.541		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			

Matrix Spike Dup (2418086-MSD2) Source: E404302-05 Prepared: 05/02/24 Analyzed: 05/03/24

Gasoline Range Organics (C6-C10)	56.6	20.0	50.0	ND	113	70-130	2.20	20	
Surrogate: Bromofluorobenzene	0.542		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 #1	Reported:
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/7/2024 11:38:44AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2418058-BLK1)					Prepared: 05/01/24 Analyzed: 05/04/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.8		50.0		116	50-200			

LCS (2418058-BS1)					Prepared: 05/01/24 Analyzed: 05/04/24				
Diesel Range Organics (C10-C28)	276	25.0	250		110	38-132			
Surrogate: n-Nonane	56.8		50.0		114	50-200			

Matrix Spike (2418058-MS1)					Source: E404302-02		Prepared: 05/01/24 Analyzed: 05/04/24		
Diesel Range Organics (C10-C28)	290	25.0	250	ND	116	38-132			
Surrogate: n-Nonane	57.2		50.0		114	50-200			

Matrix Spike Dup (2418058-MSD1)					Source: E404302-02		Prepared: 05/01/24 Analyzed: 05/04/24		
Diesel Range Organics (C10-C28)	288	25.0	250	ND	115	38-132	0.526	20	
Surrogate: n-Nonane	57.7		50.0		115	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 #1	Reported:
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/7/2024 11:38:44AM

Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2418111-BLK1)					Prepared: 05/02/24 Analyzed: 05/03/24				
Chloride	ND	20.0							
LCS (2418111-BS1)					Prepared: 05/02/24 Analyzed: 05/03/24				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2418111-MS1)					Source: E404302-03		Prepared: 05/02/24 Analyzed: 05/03/24		
Chloride	255	20.0	250	ND	102	80-120			
Matrix Spike Dup (2418111-MSD1)					Source: E404302-03		Prepared: 05/02/24 Analyzed: 05/03/24		
Chloride	256	20.0	250	ND	102	80-120	0.104	20	

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



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	State 3 #1	
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	05/07/24 11:38

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.





Project Information

Chain of Custody

Page 2 of 2

Client: Pima Environmental Services
 Project: State 3 #001
 Project Manager: Glo Gomez
 Address: 5614 N. Lovington Hwy.
 City, State, Zip: Hobbs, NM, 88240
 Phone: 806-782-1151
 Email: glo@plmaoil.com
 Report due by:

Bill To
 Attention: Armstrong
 Address:
 City, State, Zip
 Phone:
 Email:
 Pima Project # 19-18

Lab Use Only		TAT				EPA Program	
1D	2D	3D	Standard	CWA	SDWA		
<u>409302</u>	<u>22093-0001</u>		<u>X</u>				
Analysis and Method							
DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX
						<u>X</u>	
State							
NM	CO	UT	AZ	TX			
<u>X</u>							
Remarks							

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number
10:17	4/30	5		HD6-1'	11
10:25	1	1		HD6-2'	12
10:36	1	1		HD7-1'	13
10:48	1	1		HD7-2'	14
10:51	1	1		HD8-1'	15
10:55	1	1		HD8-2	16

Additional Instructions:

Bill Armstrong

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

Sampled by:

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
<u>Karine Adame</u>	<u>4/30/24</u>	<u>12:41</u>	<u>Michelle Gonzales</u>	<u>4-30-24</u>	<u>1241</u>
<u>Michelle Gonzales</u>	<u>4-30-24</u>	<u>1647</u>	<u>J.M.</u>	<u>4-30-24</u>	<u>1647</u>
<u>J.M.</u>	<u>4-30-24</u>	<u>2300</u>	<u>J.M.</u>	<u>5/1/24</u>	<u>0530</u>

Lab Use Only
 Received on ice: (Y) N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

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

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

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



Envirotech Analytical Laboratory

Printed: 5/2/2024 11:56:29AM

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:	05/01/24 05:30	Work Order ID:	E404302
Phone:	(575) 631-6977	Date Logged In:	04/30/24 16:45	Logged In By:	Angelina Pineda
Email:	gio@pimaoil.com	Due Date:	05/07/24 17:00 (4 day TAT)		

Chain of Custody (COC)

- | | | |
|---|-----|-------------------------|
| 1. Does the sample ID match the COC? | Yes | |
| 2. Does the number of samples per sampling site location match the COC | Yes | |
| 3. Were samples dropped off by client or carrier? | Yes | Carrier: <u>Courier</u> |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? | No | |
| 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.

Sample Turn Around Time (TAT)

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

Sample Cooler

- | | |
|---|-----|
| 7. Was a sample cooler received? | Yes |
| 8. If yes, was cooler received in good condition? | Yes |
| 9. Was the sample(s) received intact, i.e., not broken? | Yes |
| 10. Were custody/security seals present? | No |
| 11. If yes, were custody/security seals intact? | NA |
| 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6±2°C | Yes |
- Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling
13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client InstructionComments/Resolution

No. of containers and Sampled by not documented on COC by client

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

Date



envirotech Inc.

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: State 3 #1

Work Order: E405027

Job Number: 22093-0001

Received: 5/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/8/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 5/8/24

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: State 3 #1
Workorder: E405027
Date Received: 5/3/2024 5:00:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/3/2024 5:00:00AM, under the Project Name: State 3 #1.

The analytical test results summarized in this report with the Project Name: State 3 #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
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	State 3 #1	Reported: 05/08/24 16:16
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
VD1	E405027-01A	Soil	05/01/24	05/03/24	Glass Jar, 2 oz.
VD2	E405027-02A	Soil	05/01/24	05/03/24	Glass Jar, 2 oz.
VD3	E405027-03A	Soil	05/01/24	05/03/24	Glass Jar, 2 oz.
VD4	E405027-04A	Soil	05/01/24	05/03/24	Glass Jar, 2 oz.
VD5	E405027-05A	Soil	05/01/24	05/03/24	Glass Jar, 2 oz.
VD6	E405027-06A	Soil	05/01/24	05/03/24	Glass Jar, 2 oz.
VD7	E405027-07A	Soil	05/01/24	05/03/24	Glass Jar, 2 oz.
VD8	E405027-08A	Soil	05/01/24	05/03/24	Glass Jar, 2 oz.
VD9	E405027-09A	Soil	05/01/24	05/03/24	Glass Jar, 2 oz.
VD10	E405027-10A	Soil	05/01/24	05/03/24	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: State 3 #1 Project Number: 22093-0001 Project Manager: Tom Bynum	Reported: 5/8/2024 4:16:01PM
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VD1
E405027-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2418119	
Benzene	ND	0.0250	1	05/03/24	05/03/24	
Ethylbenzene	ND	0.0250	1	05/03/24	05/03/24	
Toluene	ND	0.0250	1	05/03/24	05/03/24	
o-Xylene	ND	0.0250	1	05/03/24	05/03/24	
p,m-Xylene	ND	0.0500	1	05/03/24	05/03/24	
Total Xylenes	ND	0.0250	1	05/03/24	05/03/24	
Surrogate: Bromofluorobenzene		100 %	70-130	05/03/24	05/03/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	05/03/24	05/03/24	
Surrogate: Toluene-d8		97.0 %	70-130	05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2418119	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/03/24	05/03/24	
Surrogate: Bromofluorobenzene		100 %	70-130	05/03/24	05/03/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	05/03/24	05/03/24	
Surrogate: Toluene-d8		97.0 %	70-130	05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2418134	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/06/24	
Surrogate: n-Nonane		107 %	50-200	05/03/24	05/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2418135	
Chloride	ND	20.0	1	05/03/24	05/04/24	



Sample Data

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

Project Name: State 3 #1
Project Number: 22093-0001
Project Manager: Tom Bynum

Reported:
5/8/2024 4:16:01PM

VD2

E405027-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2418119
Benzene	ND	0.0250	1	05/03/24	05/03/24	
Ethylbenzene	ND	0.0250	1	05/03/24	05/03/24	
Toluene	ND	0.0250	1	05/03/24	05/03/24	
o-Xylene	ND	0.0250	1	05/03/24	05/03/24	
p,m-Xylene	ND	0.0500	1	05/03/24	05/03/24	
Total Xylenes	ND	0.0250	1	05/03/24	05/03/24	
Surrogate: Bromofluorobenzene	99.7 %	70-130		05/03/24	05/03/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		05/03/24	05/03/24	
Surrogate: Toluene-d8	95.9 %	70-130		05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2418119
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/03/24	05/03/24	
Surrogate: Bromofluorobenzene	99.7 %	70-130		05/03/24	05/03/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		05/03/24	05/03/24	
Surrogate: Toluene-d8	95.9 %	70-130		05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2418134
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/06/24	
Surrogate: n-Nonane	109 %	50-200		05/03/24	05/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2418135
Chloride	ND	20.0	1	05/03/24	05/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 #1	Reported: 5/8/2024 4:16:01PM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

VD3

E405027-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2418119
Benzene	ND	0.0250	1	05/03/24	05/03/24	
Ethylbenzene	ND	0.0250	1	05/03/24	05/03/24	
Toluene	ND	0.0250	1	05/03/24	05/03/24	
o-Xylene	ND	0.0250	1	05/03/24	05/03/24	
p,m-Xylene	ND	0.0500	1	05/03/24	05/03/24	
Total Xylenes	ND	0.0250	1	05/03/24	05/03/24	
Surrogate: Bromofluorobenzene		101 %	70-130	05/03/24	05/03/24	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	05/03/24	05/03/24	
Surrogate: Toluene-d8		98.2 %	70-130	05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2418119
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/03/24	05/03/24	
Surrogate: Bromofluorobenzene		101 %	70-130	05/03/24	05/03/24	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	05/03/24	05/03/24	
Surrogate: Toluene-d8		98.2 %	70-130	05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2418134
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/06/24	
Surrogate: n-Nonane		109 %	50-200	05/03/24	05/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2418135
Chloride	ND	20.0	1	05/03/24	05/04/24	



Sample Data

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

Project Name: State 3 #1
Project Number: 22093-0001
Project Manager: Tom Bynum

Reported:
5/8/2024 4:16:01PM

VD4

E405027-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2418119
Benzene	ND	0.0250	1	05/03/24	05/03/24	
Ethylbenzene	ND	0.0250	1	05/03/24	05/03/24	
Toluene	ND	0.0250	1	05/03/24	05/03/24	
o-Xylene	ND	0.0250	1	05/03/24	05/03/24	
p,m-Xylene	ND	0.0500	1	05/03/24	05/03/24	
Total Xylenes	ND	0.0250	1	05/03/24	05/03/24	
Surrogate: Bromofluorobenzene	99.5 %	70-130		05/03/24	05/03/24	
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130		05/03/24	05/03/24	
Surrogate: Toluene-d8	97.7 %	70-130		05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2418119
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/03/24	05/03/24	
Surrogate: Bromofluorobenzene	99.5 %	70-130		05/03/24	05/03/24	
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130		05/03/24	05/03/24	
Surrogate: Toluene-d8	97.7 %	70-130		05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2418134
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/06/24	
Surrogate: n-Nonane	110 %	50-200		05/03/24	05/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2418135
Chloride	ND	20.0	1	05/03/24	05/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 #1	Reported: 5/8/2024 4:16:01PM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

VD5

E405027-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2418119
Benzene	ND	0.0250	1	05/03/24	05/04/24	
Ethylbenzene	ND	0.0250	1	05/03/24	05/04/24	
Toluene	ND	0.0250	1	05/03/24	05/04/24	
o-Xylene	ND	0.0250	1	05/03/24	05/04/24	
p,m-Xylene	ND	0.0500	1	05/03/24	05/04/24	
Total Xylenes	ND	0.0250	1	05/03/24	05/04/24	
Surrogate: Bromofluorobenzene	98.6 %	70-130		05/03/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		05/03/24	05/04/24	
Surrogate: Toluene-d8	98.7 %	70-130		05/03/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2418119
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/03/24	05/04/24	
Surrogate: Bromofluorobenzene	98.6 %	70-130		05/03/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		05/03/24	05/04/24	
Surrogate: Toluene-d8	98.7 %	70-130		05/03/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2418134
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/06/24	
Surrogate: n-Nonane	110 %	50-200		05/03/24	05/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2418135
Chloride	ND	20.0	1	05/03/24	05/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 #1	Reported: 5/8/2024 4:16:01PM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

VD6

E405027-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2418119
Benzene	ND	0.0250	1	05/03/24	05/04/24	
Ethylbenzene	ND	0.0250	1	05/03/24	05/04/24	
Toluene	ND	0.0250	1	05/03/24	05/04/24	
o-Xylene	ND	0.0250	1	05/03/24	05/04/24	
p,m-Xylene	ND	0.0500	1	05/03/24	05/04/24	
Total Xylenes	ND	0.0250	1	05/03/24	05/04/24	
Surrogate: Bromofluorobenzene	97.6 %	70-130		05/03/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		05/03/24	05/04/24	
Surrogate: Toluene-d8	96.8 %	70-130		05/03/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2418119
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/03/24	05/04/24	
Surrogate: Bromofluorobenzene	97.6 %	70-130		05/03/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		05/03/24	05/04/24	
Surrogate: Toluene-d8	96.8 %	70-130		05/03/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2418134
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/06/24	
Surrogate: n-Nonane	108 %	50-200		05/03/24	05/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2418135
Chloride	ND	20.0	1	05/03/24	05/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 #1	Reported: 5/8/2024 4:16:01PM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

VD7

E405027-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2418119
Benzene	ND	0.0250	1	05/03/24	05/04/24	
Ethylbenzene	ND	0.0250	1	05/03/24	05/04/24	
Toluene	ND	0.0250	1	05/03/24	05/04/24	
o-Xylene	ND	0.0250	1	05/03/24	05/04/24	
p,m-Xylene	ND	0.0500	1	05/03/24	05/04/24	
Total Xylenes	ND	0.0250	1	05/03/24	05/04/24	
Surrogate: Bromofluorobenzene	98.9 %	70-130		05/03/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130		05/03/24	05/04/24	
Surrogate: Toluene-d8	97.8 %	70-130		05/03/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2418119
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/03/24	05/04/24	
Surrogate: Bromofluorobenzene	98.9 %	70-130		05/03/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130		05/03/24	05/04/24	
Surrogate: Toluene-d8	97.8 %	70-130		05/03/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2418134
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/06/24	
Surrogate: n-Nonane	105 %	50-200		05/03/24	05/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2418135
Chloride	ND	20.0	1	05/03/24	05/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 #1	Reported: 5/8/2024 4:16:01PM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

VD8

E405027-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2418119
Benzene	ND	0.0250	1	05/03/24	05/04/24	
Ethylbenzene	ND	0.0250	1	05/03/24	05/04/24	
Toluene	ND	0.0250	1	05/03/24	05/04/24	
o-Xylene	ND	0.0250	1	05/03/24	05/04/24	
p,m-Xylene	ND	0.0500	1	05/03/24	05/04/24	
Total Xylenes	ND	0.0250	1	05/03/24	05/04/24	
Surrogate: Bromofluorobenzene		100 %	70-130	05/03/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	05/03/24	05/04/24	
Surrogate: Toluene-d8		98.1 %	70-130	05/03/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2418119
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/03/24	05/04/24	
Surrogate: Bromofluorobenzene		100 %	70-130	05/03/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	05/03/24	05/04/24	
Surrogate: Toluene-d8		98.1 %	70-130	05/03/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2418134
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/06/24	
Surrogate: n-Nonane		109 %	50-200	05/03/24	05/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2418135
Chloride	ND	20.0	1	05/03/24	05/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 #1	Reported: 5/8/2024 4:16:01PM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

VD9

E405027-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2418119
Benzene	ND	0.0250	1	05/03/24	05/04/24	
Ethylbenzene	ND	0.0250	1	05/03/24	05/04/24	
Toluene	ND	0.0250	1	05/03/24	05/04/24	
o-Xylene	ND	0.0250	1	05/03/24	05/04/24	
p,m-Xylene	ND	0.0500	1	05/03/24	05/04/24	
Total Xylenes	ND	0.0250	1	05/03/24	05/04/24	
Surrogate: Bromofluorobenzene	98.3 %	70-130		05/03/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		05/03/24	05/04/24	
Surrogate: Toluene-d8	98.4 %	70-130		05/03/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2418119
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/03/24	05/04/24	
Surrogate: Bromofluorobenzene	98.3 %	70-130		05/03/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		05/03/24	05/04/24	
Surrogate: Toluene-d8	98.4 %	70-130		05/03/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2418134
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/06/24	
Surrogate: n-Nonane	108 %	50-200		05/03/24	05/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2418135
Chloride	ND	20.0	1	05/03/24	05/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 #1	Reported: 5/8/2024 4:16:01PM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

VD10

E405027-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2418119	
Benzene	ND	0.0250	1	05/03/24	05/04/24	
Ethylbenzene	ND	0.0250	1	05/03/24	05/04/24	
Toluene	ND	0.0250	1	05/03/24	05/04/24	
o-Xylene	ND	0.0250	1	05/03/24	05/04/24	
p,m-Xylene	ND	0.0500	1	05/03/24	05/04/24	
Total Xylenes	ND	0.0250	1	05/03/24	05/04/24	
Surrogate: Bromofluorobenzene	98.7 %	70-130		05/03/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		05/03/24	05/04/24	
Surrogate: Toluene-d8	97.2 %	70-130		05/03/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2418119	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/03/24	05/04/24	
Surrogate: Bromofluorobenzene	98.7 %	70-130		05/03/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		05/03/24	05/04/24	
Surrogate: Toluene-d8	97.2 %	70-130		05/03/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2418134	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/06/24	
Surrogate: n-Nonane	107 %	50-200		05/03/24	05/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2418135	
Chloride	ND	20.0	1	05/03/24	05/04/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 #1	Reported: 5/8/2024 4:16:01PM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Volatile Organic Compounds by EPA 8260B

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2418119-BLK1) Prepared: 05/03/24 Analyzed: 05/03/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.4	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.3	70-130			

LCS (2418119-BS1) Prepared: 05/03/24 Analyzed: 05/03/24

Benzene	2.76	0.0250	2.50		111	70-130			
Ethylbenzene	2.64	0.0250	2.50		106	70-130			
Toluene	2.54	0.0250	2.50		101	70-130			
o-Xylene	2.63	0.0250	2.50		105	70-130			
p,m-Xylene	5.10	0.0500	5.00		102	70-130			
Total Xylenes	7.73	0.0250	7.50		103	70-130			
Surrogate: Bromofluorobenzene	0.491		0.500		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.7	70-130			

Matrix Spike (2418119-MS1) Source: E405027-03 Prepared: 05/03/24 Analyzed: 05/03/24

Benzene	2.64	0.0250	2.50	ND	106	48-131			
Ethylbenzene	2.50	0.0250	2.50	ND	100	45-135			
Toluene	2.41	0.0250	2.50	ND	96.3	48-130			
o-Xylene	2.49	0.0250	2.50	ND	99.6	43-135			
p,m-Xylene	4.85	0.0500	5.00	ND	97.1	43-135			
Total Xylenes	7.34	0.0250	7.50	ND	97.9	43-135			
Surrogate: Bromofluorobenzene	0.483		0.500		96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.6	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

Matrix Spike Dup (2418119-MSD1) Source: E405027-03 Prepared: 05/03/24 Analyzed: 05/03/24

Benzene	2.92	0.0250	2.50	ND	117	48-131	10.2	23	
Ethylbenzene	2.77	0.0250	2.50	ND	111	45-135	10.1	27	
Toluene	2.66	0.0250	2.50	ND	106	48-130	9.79	24	
o-Xylene	2.79	0.0250	2.50	ND	111	43-135	11.3	27	
p,m-Xylene	5.44	0.0500	5.00	ND	109	43-135	11.5	27	
Total Xylenes	8.23	0.0250	7.50	ND	110	43-135	11.4	27	
Surrogate: Bromofluorobenzene	0.490		0.500		98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.2	70-130			
Surrogate: Toluene-d8	0.487		0.500		97.4	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 #1	Reported: 5/8/2024 4:16:01PM
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2418119-BLK1) Prepared: 05/03/24 Analyzed: 05/03/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.4	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.3	70-130			

LCS (2418119-BS2) Prepared: 05/03/24 Analyzed: 05/03/24

Gasoline Range Organics (C6-C10)	54.9	20.0	50.0		110	70-130			
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.4	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.7	70-130			

Matrix Spike (2418119-MS2) Source: E405027-03 Prepared: 05/03/24 Analyzed: 05/03/24

Gasoline Range Organics (C6-C10)	53.2	20.0	50.0	ND	106	70-130			
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.3	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.1	70-130			

Matrix Spike Dup (2418119-MSD2) Source: E405027-03 Prepared: 05/03/24 Analyzed: 05/03/24

Gasoline Range Organics (C6-C10)	52.9	20.0	50.0	ND	106	70-130	0.559	20	
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 #1	Reported:
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/8/2024 4:16:01PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2418134-BLK1) Prepared: 05/03/24 Analyzed: 05/06/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.5		50.0		111	50-200			

LCS (2418134-BS1) Prepared: 05/03/24 Analyzed: 05/06/24

Diesel Range Organics (C10-C28)	309	25.0	250		124	38-132			
Surrogate: n-Nonane	56.3		50.0		113	50-200			

Matrix Spike (2418134-MS1) Source: E405027-05 Prepared: 05/03/24 Analyzed: 05/06/24

Diesel Range Organics (C10-C28)	315	25.0	250	ND	126	38-132			
Surrogate: n-Nonane	57.0		50.0		114	50-200			

Matrix Spike Dup (2418134-MSD1) Source: E405027-05 Prepared: 05/03/24 Analyzed: 05/06/24

Diesel Range Organics (C10-C28)	304	25.0	250	ND	122	38-132	3.48	20	
Surrogate: n-Nonane	54.8		50.0		110	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	State 3 #1	Reported:
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/8/2024 4:16:01PM

Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2418135-BLK1)					Prepared: 05/03/24 Analyzed: 05/04/24				
Chloride	ND	20.0							
LCS (2418135-BS1)					Prepared: 05/03/24 Analyzed: 05/04/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2418135-MS1)					Source: E405027-04		Prepared: 05/03/24 Analyzed: 05/04/24		
Chloride	257	20.0	250	ND	103	80-120			
Matrix Spike Dup (2418135-MSD1)					Source: E405027-04		Prepared: 05/03/24 Analyzed: 05/04/24		
Chloride	256	20.0	250	ND	102	80-120	0.503	20	

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



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	State 3 #1	
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	05/08/24 16:16

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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

Project Information

Chain of Custody

Client: Plima Environmental Services Project: State 3 #1 Project Manager: Glo Gomez Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 806-782-1151 Email: glo@plimaoil.com Report due by:					Bill To Attention: Armstrong Address: City, State, Zip: Phone: Email: Plima Project # 19-18					<div style="display: flex; justify-content: space-between;"> <div> Lab 405027 22093-0001 </div> <div> TAT 1D 2D 3D Standard </div> <div> EPA Program CWA SDWA RCRA </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div> Analysis and Method DRO/DRO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM BGDOC TX </div> <div> State NM CO UT AZ TX </div> </div>									
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number														
9:11	5/1	S	1	VD1	1														
9:18	1	1	1	VD2	2														
9:21				VD3	3														
9:36				VD4	4														
9:47				VD5	5														
9:51				VD6	6														
10:11				VD7	7														
10:28				VD8	8														
10:28				VD9	9														
10:39				VD10	10														

Additional Instructions: Bill Armstrong

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time				

Sample Matrix: S - Soil, sd - Solid, sg - Sludge, A - Aqueous, O - Other

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

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

Envirotech Analytical Laboratory

Printed: 5/3/2024 2:04:44PM

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:	05/03/24 05:00	Work Order ID:	E405027
Phone:	(575) 631-6977	Date Logged In:	05/02/24 16:32	Logged In By:	Angelina Pineda
Email:	tom@pimaoil.com	Due Date:	05/09/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/Resolution

No. of containers and sampled by not documented on COC by client

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

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

QUESTIONS

Action 347462

QUESTIONS

Operator: ARMSTRONG ENERGY CORP P.O. Box 1973 Roswell, NM 88202	OGRID: 1092
	Action Number: 347462
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2408179114
Incident Name	NAPP2408179114 STATE 3 #001 @ 30-025-34238
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-34238] STATE 3 #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	STATE 3 #001
Date Release Discovered	03/21/2024
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Production Tank Crude Oil Released: 275 BBL Recovered: 123 BBL Lost: 152 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 347462

QUESTIONS (continued)

Operator: ARMSTRONG ENERGY CORP P.O. Box 1973 Roswell, NM 88202	OGRID:	1092
	Action Number:	347462
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Jeffery Tew Title: Operations Engineer Email: Jtew@aecnm.com Date: 04/02/2024
--	--

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QUESTIONS, Page 3

Action 347462

QUESTIONS (continued)

Operator: ARMSTRONG ENERGY CORP P.O. Box 1973 Roswell, NM 88202	OGRID:	1092
	Action Number:	347462
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 500 and 1000 (ft.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 500 and 1000 (ft.)
Any other fresh water well or spring	Between 500 and 1000 (ft.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

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

Chloride (EPA 300.0 or SM4500 Cl B)	25
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1271
GRO+DRO (EPA SW-846 Method 8015M)	956
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	03/22/2024
On what date will (or did) the final sampling or liner inspection occur	04/08/2024
On what date will (or was) the remediation complete(d)	04/03/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	4500
What is the estimated volume (in cubic yards) that will be remediated	1300

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

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

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QUESTIONS, Page 4

Action 347462

QUESTIONS (continued)

Operator: ARMSTRONG ENERGY CORP P.O. Box 1973 Roswell, NM 88202	OGRID:	1092
	Action Number:	347462
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Jeffery Tew Title: Operations Engineer Email: Jtew@aecn.com Date: 05/28/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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District II
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 5

Action 347462

QUESTIONS (continued)

Operator: ARMSTRONG ENERGY CORP P.O. Box 1973 Roswell, NM 88202	OGRID: 1092
	Action Number: 347462
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 347462

QUESTIONS (continued)

Operator: ARMSTRONG ENERGY CORP P.O. Box 1973 Roswell, NM 88202	OGRID:	1092
	Action Number:	347462
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	330532
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/08/2024
What was the (estimated) number of samples that were to be gathered	53
What was the sampling surface area in square feet	9000

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	4500
What was the total volume (cubic yards) remediated	1300
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	From March 22 through April 3, 2024, Armstrong Energy conducted an urgent excavation of the affected area within the lined containment to prevent crude oil from seeping further into the soil. They used a track hoe and belly dumps to remove the contaminated material from the site. The excavation covered approximately 4,500 square feet and reached a depth of 8 feet below ground surface (bgs). In total, 1,300 cubic yards of contaminated material were removed and transported to an NMOCD-approved landfill for disposal.

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 (in .pdf format) 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.

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.

I hereby agree and sign off to the above statement	Name: Jeffery Tew Title: Operations Engineer Email: Jtew@aecnm.com Date: 05/28/2024
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QUESTIONS, Page 7

Action 347462

QUESTIONS (continued)

Operator: ARMSTRONG ENERGY CORP P.O. Box 1973 Roswell, NM 88202	OGRID:	1092
	Action Number:	347462
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 347462

CONDITIONS

Operator: ARMSTRONG ENERGY CORP P.O. Box 1973 Roswell, NM 88202	OGRID:
	1092
	Action Number:
	347462
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	5/29/2024
amaxwell	<ul style="list-style-type: none">The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	5/29/2024