



SHUGART W FEDERAL 29 CTB 1
WEST SHUGART 29 FEDERAL #1

Incident IDs nAPP2313055690 &
nAB1808253927

PREPARED BY:
PIMA ENVIRONMENTAL SERVICES, LLC

PREPARED FOR:
DEVON ENERGY PRODUCTION CO, LP

Remediation Work Plan

November 25, 2024

5614 N Lovington Hwy
Hobbs, NM 88240
575-964-7740



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

Bureau of Land Management
620 E Green St.
Carlsbad, NM 88220

Re: Site Characteristic and Remediation Plan Report
Shugart W Fed 29 CTB 1
Facility ID fAPP2130628309
West Shugart 29 Federal #001
API No. 30-015-29948
GPS: Latitude 32.7157707 Longitude -103.8948975
ULSTR – K – 29 – 18S – 31E 1609 FSL 1655 FWL Eddy County, NM
NMOCD Incident IDs nAPP2313055690 & nAB1808253927

This site characterization and remediation plan report will address two incidents that occurred on the same location. The first incident was a produced water release that was discovered on March 11, 2018, and was associated with the West Shugart 29 Federal #001 (Shugart). The initial C-141 form was submitted on March 22, 2018, and approved by the NMOCD (OCD Online: Permitting – Incident Details -> Incident Files. This incident was assigned Incident ID nAB1808253927 by the New Mexico Oil Conservation Division (NMOCD). The second incident was a crude oil release that was discovered on May 10, 2023, and was associated with the Shugart W Fed 29 CTB 1 (Shugart). The initial notification of release was submitted on May 10, 2023, and approved by the NMOCD. The initial C-141 form was submitted on May 19, 2023, and approved by the NMOCD. This incident was assigned Incident ID nAPP2313055690 by the NMOCD.

Site Characterization

The Shugart is located approximately eight (8) miles southeast of Loco Hills, NM. This spill sites are in Unit K, Section 29, Township 18S, Range 31E, Latitude 32.7157707 Longitude -103.8948975, Eddy County, NM. Figure 3 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is made up of eolian and piedmont deposits. Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits. The soil in this area is made up of Berino loamy fine sand, 0-3 percent slopes, according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage class in this area is well drained. There is a low potential for karst geology to be present around the Shugart (Figure 5).

Based on the well water data from the New Mexico Office of the State Engineer, the depth to the nearest groundwater in this vicinity measures 240 feet below grade surface (bgs). The closest POD with current information is CP-00818-POD1 which was drilled in 1950, is approximately 2.66 miles away from this release area. Conversely, as per the United States Geological Survey well water data the nearest groundwater depth in this region is recorded at 204 feet bgs, from well USGS 324241103561201 18S.30E.26.4140 which is situated approximately 2.52 mile away from the Shugart. For detailed references to water surveys and the precise locations of water wells, please refer to Appendix A, inclusive of the water-related maps.

Reference Figure 4 for a Topographic Map.

Release Information

nAB1808253927: On March 11, 2018, the water haulers did not pull load from water tank and tank over filled spilling produced water into the dirt SPCC containment. All fluids stayed in the earthen SPCC containment. The wells were immediately shut off to prevent farther release. Approximately 9.4 bbls of produced water was released from the water tank in an unlined earthen berm SPCC containment. A vacuum truck was dispatched and recovered approximately 5 bbls of produced water. An environmental contractor will be contacted to assist with delineation and remediation efforts.



nAPP2313055690: On May 10, 2023, Leak was found in a pin hole on the oil production pipe in between the heater and oil tanks within the earthen berm. The heater was isolated to stop the spill. As of this notification, recovered volumes are not available. Spill was not in a lined containment. 6.9 bbls oil spilled (estimated). No fluids were able to be recovered.

Site Assessment, and Soil Sampling Results

On May 12, 2023, Pima Environmental mobilized personnel to the site to collect soil samples from the spill area to delineate the release. Staining was found inside the earthen berm around the tanks, and in three different areas in the pasture adjacent to a poly flowline. Forty-seven samples were collected from 23 different sample points. Thirty-three samples were collected for the purpose of vertical delineation from 9 different sample points within the release areas. These discreet samples were collected from depths of 1', 2', 3', and 4' bgs. Fourteen samples were collected from the edges of the release areas for the purpose of horizontal delineation. These samples consisted of samples from a depth of 6" bgs from each sample point. A total of 47 samples were immediately put on ice, jarred, and delivered to Envirotech Labs for official analysis of all constituents listed in Table 1 19.15.29.12 NMAC.

On May 26, 2023, as delineation was still unclear, Pima personnel returned to the site to collect additional samples from the previous sample points within the earthen berm area. Sample points S-1 and S-4 were advanced to 7' bgs, and sample points S-2 and S-3 were advanced to 8' bgs. A total of 8 samples were immediately put on ice, jarred, and delivered to Envirotech Labs for official analysis of all constituents listed in Table 1 19.15.29.12 NMAC.

On June 14, 2023, Pima personnel returned to the location to complete delineation of the pasture areas and collect additional samples from the earthen berm area to more accurately portray vertical delineation. Five additional samples were collected from within the earthen berm area from 5' and 6' depths bgs. The sample points in the pasture area were each advanced to a depth of 6' bgs to confirm vertical delineation. Ten samples were collected from these 5 sample points. A total of 15 samples were immediately put on ice, jarred, and delivered to Envirotech Labs for official analysis of all constituents listed in Table 1 19.15.29.12 NMAC.

On June 4, 2024, Pima personnel returned to the location to complete horizontal delineation of the release areas. The previously collected horizontal delineation samples were not sufficient for full delineation as they were only collected from a depth of 6" bgs. During this sampling event, 16 samples were collected from 16 different sample points. These samples were composite samples each including depths of 0', 1', 2', 3', and 4' bgs. A total of 4 samples were collected from each area. A total of 16 samples were immediately put on ice, jarred, and delivered to Cardinal Laboratories for official analysis of all constituents listed in Table 1 19.15.29.12 NMAC.

All sample results can be found in the Data Tables in Figure 1. A corresponding Site Map can be found in Figure 2. Complete laboratory reports can be found in Appendix E.

Proposed Remediation Activities

On behalf of Devon, Pima proposes the following method for the remediation of these release areas:

- Submit a one-call through the NM811 system.
- The estimated total combined volume of soil to be remediated is approximately 464 cubic yards from the 4 different areas. This is based on a total combined area of 2,490 square feet at various depths ranging from 4.5' to 5.5' bgs.
- We propose to excavate each area entirely to their respective depth, or until sample results are verified to be under the regulatory limits as per the less than 50 feet to ground water requirement in Table 1 19.15.29.12 NMAC.
- The contaminated soil will be disposed of at an NMOCD-approved disposal facility.
- Clean, like material will be brought to the location to be used for backfilling.
- A 48-hour sampling notification will be issued to NMOCD for confirmation sampling of the areas.
- Confirmation samples will be composite samples representing no more than 200 square feet of each excavated area and will be collected from the base and walls of the excavations.
- Once all sample results confirm the contamination has been removed from each area, a remediation closure report will be drafted and submitted the NMOCD Portal for review/approval.

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



Approval Request

Devon has complied with the applicable requirements set forth in 19.15.29.12 NMAC and requests that this remediation plan report be approved.

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

Devon Energy – Jim Raley at 575-689-7597 or jim.raley@devon.com.

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

Attachments

Figures:

- 1- Data Tables
- 2- Site Map
- 3- Location Map
- 4- Topographic Map
- 5- Karst Map

Appendices:

- Appendix A – Referenced Water Surveys & Water-Related Maps
- Appendix B – Soil Survey & Map and Geological Data
- Appendix C – Initial C-141 Form & NMOCD Correspondence
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports

Figures:

- 1 - Data Tables
- 2 - Site Map
- 3 - Location Map
- 4 - Topographic Map
- 5 - Karst Map

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')									
DEVON ENERGY - SHUGART W Fed 29 CTB 1 - nAPP2313055690; nAB1808253927									
NM Approved Laboratory Results									
Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
S-1	5/12/2023	1'	12.9	0.536	488	20800	7970	29271.44	113
		2'	10.1	0.201	396	16600	6850	23856.3	75.9
		3'	8.8	0.211	363	12500	5050	17922.01	54.9
		4'	3.79	ND	183	14300	5920	20406.79	23.2
	6/14/2023	5'	ND	ND	ND	ND	ND	0	220
	5/26/2023	6'	ND	ND	ND	ND	ND	0	ND
		7'	ND	ND	ND	ND	ND	0	ND
S-2	5/12/2023	1'	13.3	0.432	502	22000	8130	30645.73	100
		2'	10.1	0.263	411	18100	7040	25561.36	72.5
		3'	10.8	0.25	425	18400	7410	26246.05	87.2
		4'	11.2	0.323	442	15200	6280	21933.52	83.1
	6/14/2023	5'	ND	ND	ND	ND	ND	0	192
		6'	ND	ND	ND	ND	ND	0	56.8
	5/26/2023	7'	ND	ND	ND	ND	ND	0	ND
		8'	ND	ND	ND	ND	ND	0	ND
S-3	5/12/2023	1'	14.1	0.437	529	20700	8430	29673.54	95.9
		2'	7.11	0.132	302	8690	3920	12919.24	51.3
		3'	6.21	0.121	243	12200	5000	17449.33	52.8
		4'	7.37	0.183	287	11200	4560	16054.55	59.7
	6/14/2023	5'	ND	ND	ND	ND	ND	0	68.3
	5/26/2023	6'	ND	ND	ND	ND	ND	0	ND
		8'	ND	ND	ND	ND	ND	0	ND
S-4	5/12/2023	1'	13.9	0.444	527	23400	9310	33251.34	95.5
		2'	3.55	ND	173	4820	2070	7066.55	26.7
		3'	0.874	ND	22.8	4570	1930	6523.674	61.2
		4'	1.88	ND	64.8	2810	1300	4176.68	32.8
	6/14/2023	5'	ND	ND	ND	ND	ND	0	90.9
	5/26/2023	6'	ND	ND	ND	ND	ND	0	ND
		7'	ND	ND	ND	ND	ND	0	ND
SW 1	5/12/2023	6"	ND	ND	ND	ND	ND	0	ND
SW 2		6"	ND	ND	ND	ND	ND	0	ND
SW 3		6"	ND	ND	ND	ND	ND	0	ND
SW 4		6"	ND	ND	ND	ND	ND	0	ND
C-1	5/12/2023	1'	2.67	ND	138	9910	3900	13950.67	22.7
		2'	0.528	ND	51.7	4800	2860	7712.228	ND
		3'	5.24	ND	236	5690	ND	5931.24	31.8
	6/14/2023	4'	ND	ND	ND	ND	ND	0	202
		6'	ND	ND	ND	ND	ND	0	47.2
C-2	5/12/2023	1'	2.98	ND	184	11000	4440	15626.98	22.9
		2'	0.512	ND	52	4790	ND	4842.512	ND
		3'	7.06	ND	291	6330	ND	6628.06	28.7
	6/14/2023	4'	ND	ND	ND	ND	ND	0	ND
		6'	ND	ND	ND	ND	ND	0	ND








Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
C-3	5/12/2023	1'	2.58	ND	118	9090	3570	12780.58	22.5
		2'	0.673	ND	111	4340	2700	7151.673	ND
		3'	7.23	ND	288	8230	2760	11285.23	33.7
	6/14/2023	4'	ND	ND	ND	ND	ND	0	2470
		6'	ND	ND	ND	ND	ND	0	ND
CW 1	5/12/2023	6"	ND	ND	ND	ND	ND	0	ND
CW 2		6"	ND	ND	ND	ND	ND	0	ND
CW 3		6"	ND	ND	ND	ND	ND	0	ND
CW 4		6"	ND	ND	ND	ND	ND	0	ND
D-1	5/12/2023	1'	7.3	ND	278	9610	3530	13425.3	22.7
		2'	1.1	ND	ND	5190	ND	5191.1	ND
		3'	5.58	ND	206	7830	ND	8041.58	46.7
		4'	4.37	ND	157	7050	ND	7211.37	36.7
	6/14/2023	5'	ND	ND	ND	ND	ND	0	1390
		6'	ND	ND	ND	ND	ND	0	ND
DW 1	5/12/2023	6"	ND	ND	20.1	ND	ND	20.1	ND
DW 2		6"	ND	ND	ND	ND	ND	0	ND
DW 3		6"	ND	ND	ND	ND	ND	0	ND
E-1	5/12/2023	1'	1.76	ND	208	9370	3770	13349.76	28.5
		2'	0.095	ND	84.6	4240	ND	4324.695	ND
		3'	1.38	ND	145	4150	ND	4296.38	22.5
		4'	3.67	ND	356	6560	ND	6919.67	45.5
	6/14/2023	5'	ND	ND	ND	ND	ND	0	1240
		6'	ND	ND	ND	ND	ND	0	ND
EW 1	5/12/2023	6"	ND	ND	ND	ND	ND	0	ND
EW 2		6"	ND	ND	ND	ND	ND	0	ND
EW 3		6"	ND	ND	ND	ND	ND	0	ND

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY - SHUGART W Fed 29 CTB 1 - nAPP2313055690, nAB1808253927								
Date: 6/4/24 NM Approved Laboratory Results								
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
SW1 (0-4')	0-4' Comp	ND	ND	ND	ND	ND	0	ND
SW2 (0-4')	0-4' Comp	ND	ND	ND	ND	ND	0	ND
SW3 (0-4')	0-4' Comp	ND	ND	ND	ND	ND	0	ND
SW4 (0-4')	0-4' Comp	ND	ND	ND	ND	ND	0	ND
CW1 (0-4')	0-4' Comp	ND	ND	ND	ND	ND	0	32
CW2 (0-4')	0-4' Comp	ND	ND	ND	ND	ND	0	ND
CW3 (0-4')	0-4' Comp	ND	ND	ND	ND	ND	0	32
CW4 (0-4')	0-4' Comp	ND	ND	ND	ND	ND	0	16
DW1 (0-4')	0-4' Comp	ND	ND	ND	ND	ND	0	ND
DW2 (0-4')	0-4' Comp	ND	ND	ND	ND	ND	0	ND
DW3 (0-4')	0-4' Comp	ND	ND	ND	ND	ND	0	ND
DW4 (0-4')	0-4' Comp	ND	ND	ND	ND	ND	0	ND
EW1 (0-4')	0-4' Comp	ND	ND	ND	ND	ND	0	ND
EW2 (0-4')	0-4' Comp	ND	ND	ND	ND	ND	0	ND
EW3 (0-4')	0-4' Comp	ND	ND	ND	ND	ND	0	ND
EW4 (0-4')	0-4' Comp	ND	ND	ND	ND	ND	0	ND

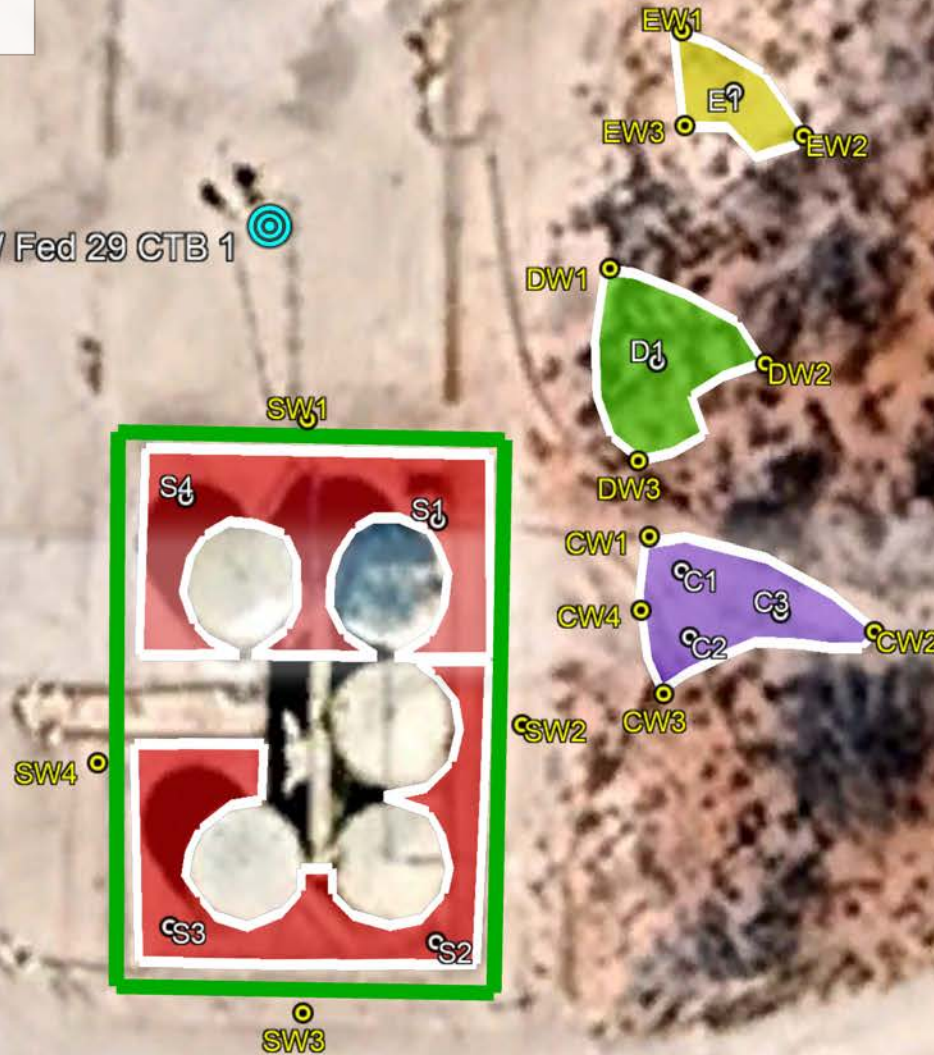
Shugart W Fed 29 CTB 1

Devon Energy
Facility ID fAPP2130628309
Eddy County, NM
nAPP2313055690
nAB1808253927
Site Map

Legend

-  Battery area - 1,600 sqft
-  Earthen Berm
-  Horizontal delineation samples
-  Pasture area 1 - 370 sqft
-  Pasture area 2 - 357 sqft
-  Pasture area 3 - 163 sqft
-  Vertical delineation samples

Shugart W Fed 29 CTB 1



32.715313, -103.894521

Google Earth

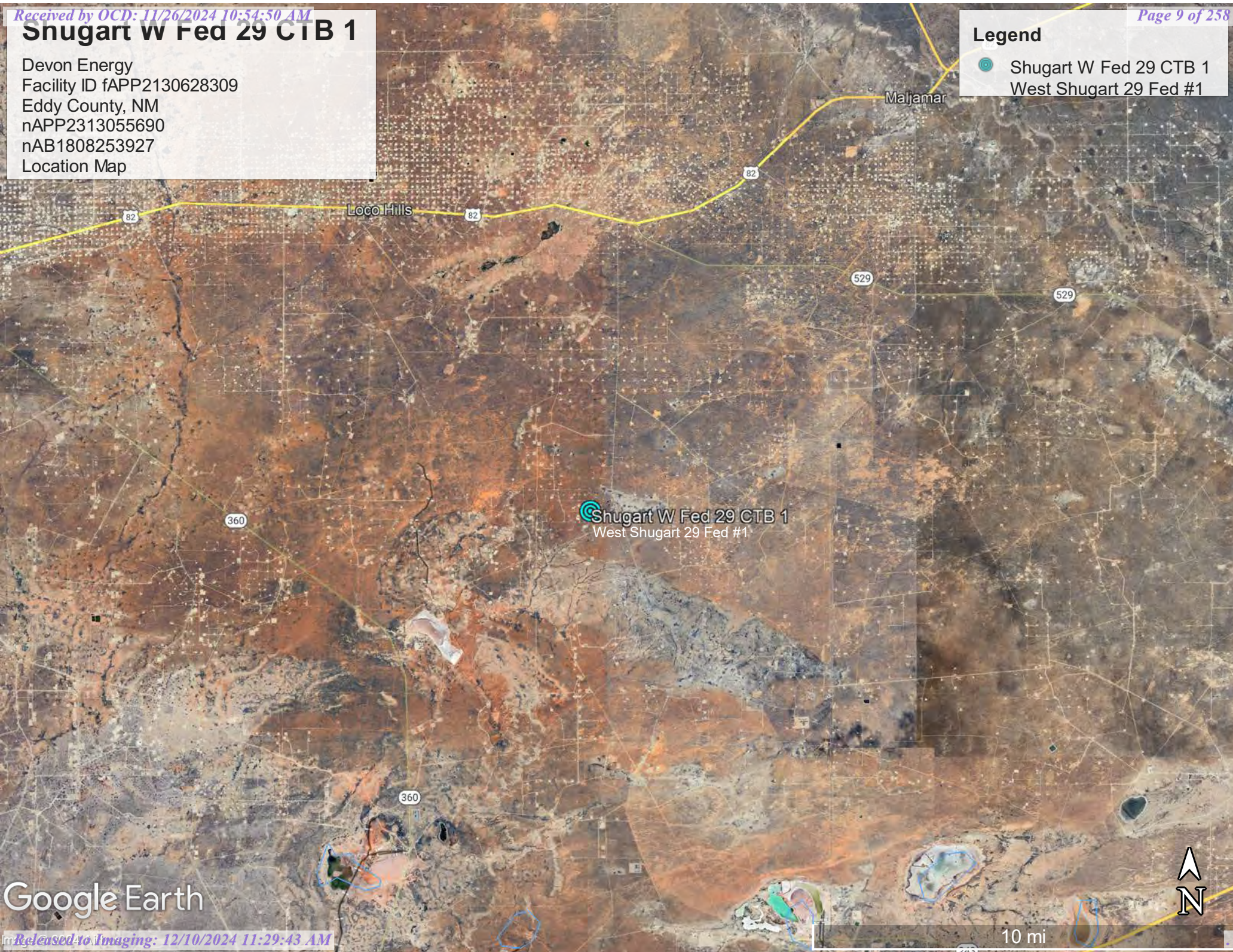


Shugart W Fed 29 CTB 1

Devon Energy
Facility ID fAPP2130628309
Eddy County, NM
nAPP2313055690
nAB1808253927
Location Map

Legend

- Shugart W Fed 29 CTB 1
- West Shugart 29 Fed #1



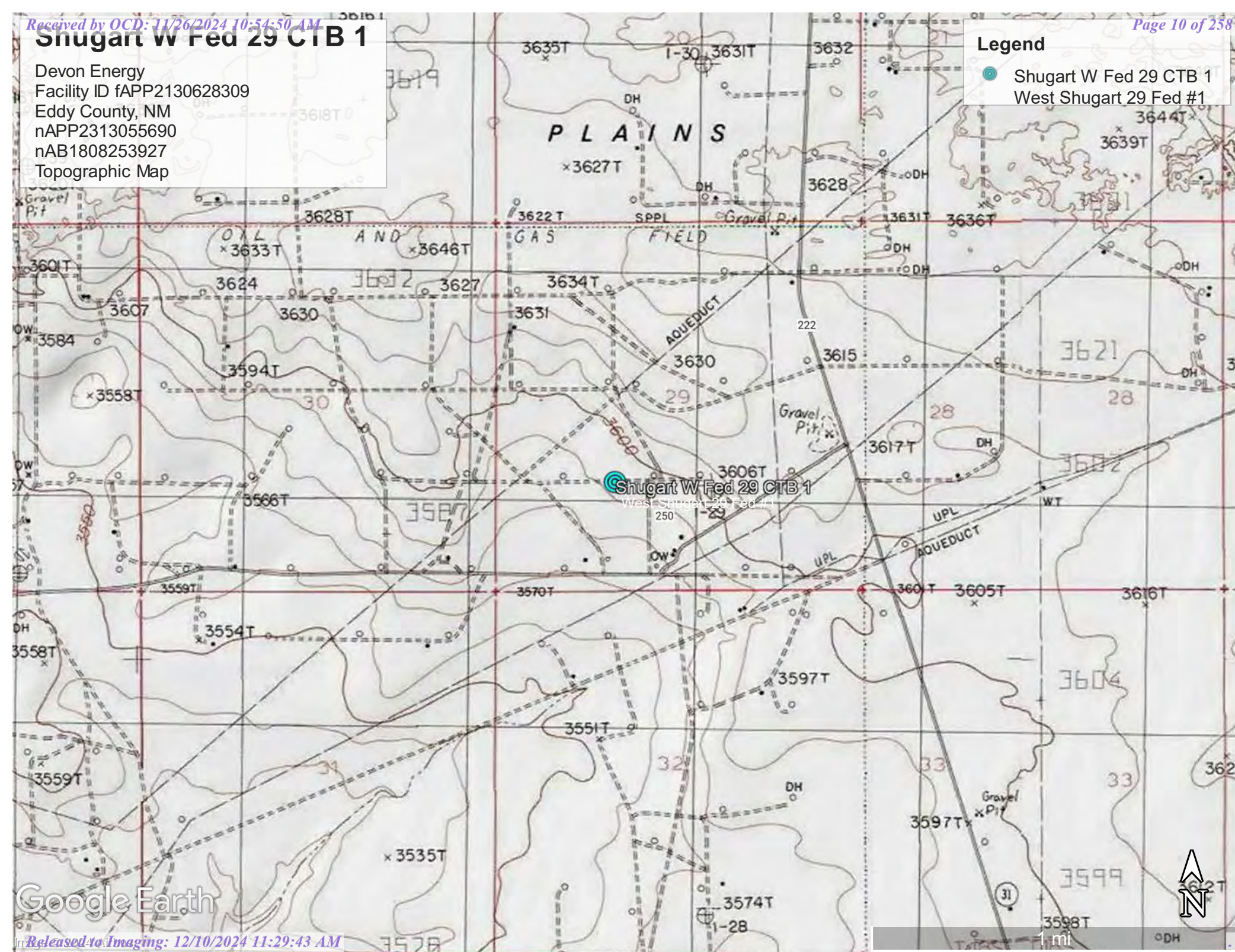
Google Earth

Shugart W Fed 29 CTB 1

Devon Energy
Facility ID fAPP2130628309
Eddy County, NM
nAPP2313055690
nAB1808253927
Topographic Map

Legend

- Shugart W Fed 29 CTB 1
- West Shugart 29 Fed #1






Google Earth

Shugart W Fed 29 CTB 1

Devon Energy
Facility ID fAPP2130628309
Eddy County, NM
nAPP2313055690
nAB1808253927
Karst Map

Legend

-  High Karst
-  Low Karst
-  Medium Karst

Shugart W Fed 29 CTB 1
West Shugart 29 Fed #1

250

222



1 mi

Google Earth

Appendix A

Water Surveys:

OSE

USGS

Surface Water Map

Wetlands Map

Fema Flood 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
CP 00818 POD1		CP	LE	1	4	26	18S	30E		599289	3620364*	4276	240		
CP 00767 POD1		CP	ED	3	2	35	18S	30E		599300	3619158*	4416	500		
CP 00849 POD1		CP	LE	3	1	3	35	18S	31E	608012	3618757*	4707	300		
CP 01907 POD1		CP	ED	4	2	2	18	19S	31E	603017	3614737	5592			
CP 01985 POD1		CP	ED	2	4	2	17	19S	31E	604666	3614438	5967	55		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 603565.31

Northing (Y): 3620303

Radius: 6000

*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.


5/30/24 7:27 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

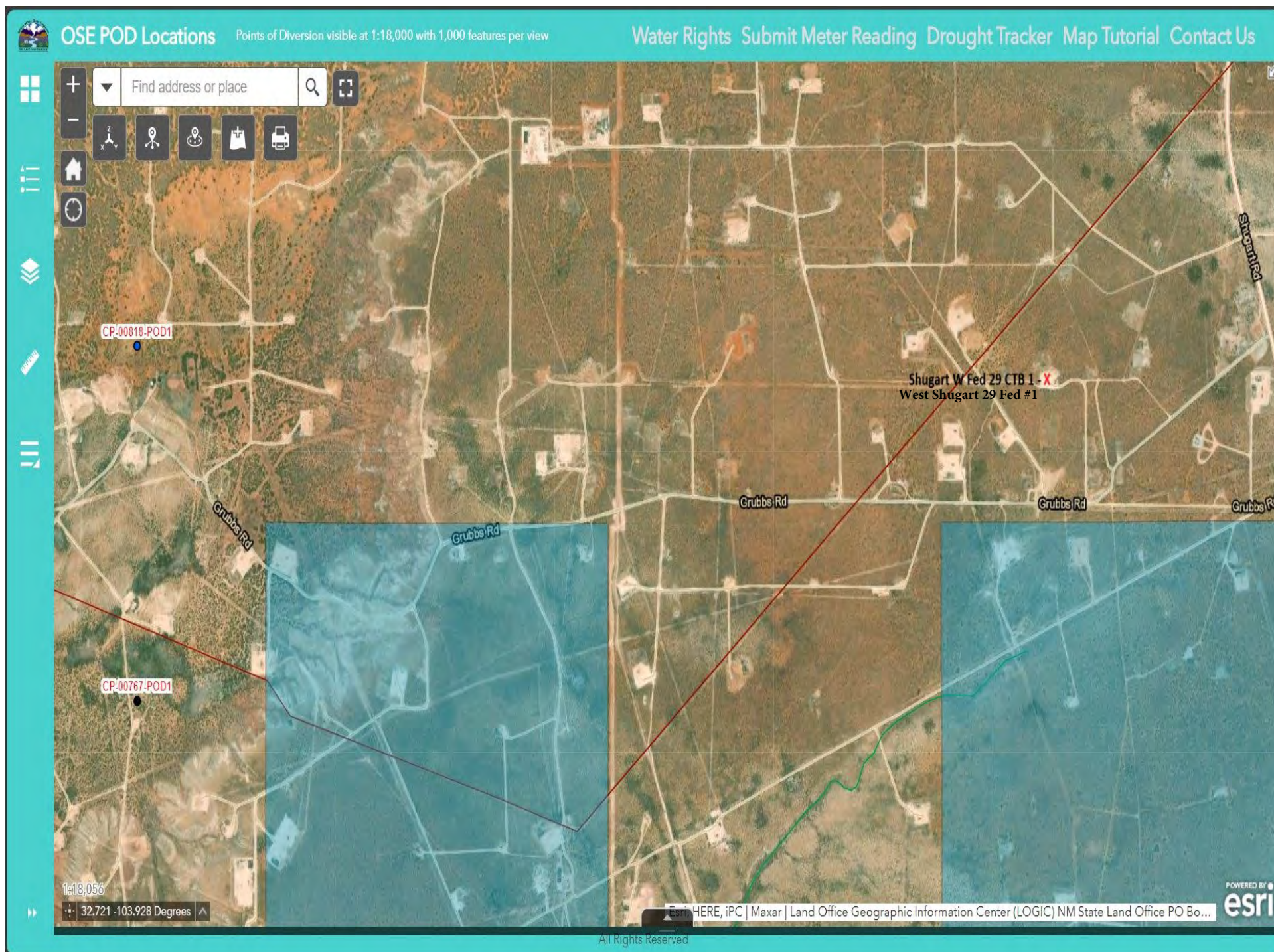
		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
	CP 00818 POD1	1	4	26	18S	30E	599289	3620364*			
x											
Driller License: 122		Driller Company:				UNKNOWN					
Driller Name:											
Drill Start Date:		Drill Finish Date:				Plug Date:					
Log File Date:		PCW Rcv Date:				Source:		Shallow			
Pump Type:		Pipe Discharge Size:				Estimated Yield:		20 GPM			
Casing Size: 7.00		Depth Well:				240 feet		Depth Water:			
x											

*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.

5/30/24 7:46 AM

POINT OF DIVERSION SUMMARY





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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

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- [Full News](#) 

Groundwater levels for the Nation

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

Search Results -- 1 sites found

site_no list =

- 324241103561201

Minimum number of levels = 1

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

USGS 324241103561201 18S.30E.26.4140

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°42'41", Longitude 103°56'12" NAD27

Land-surface elevation 3,432 feet above NAVD88

The depth of the well is 230 feet below land surface.

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

This well is completed in the Chinle Formation (231CHNL) local aquifer.

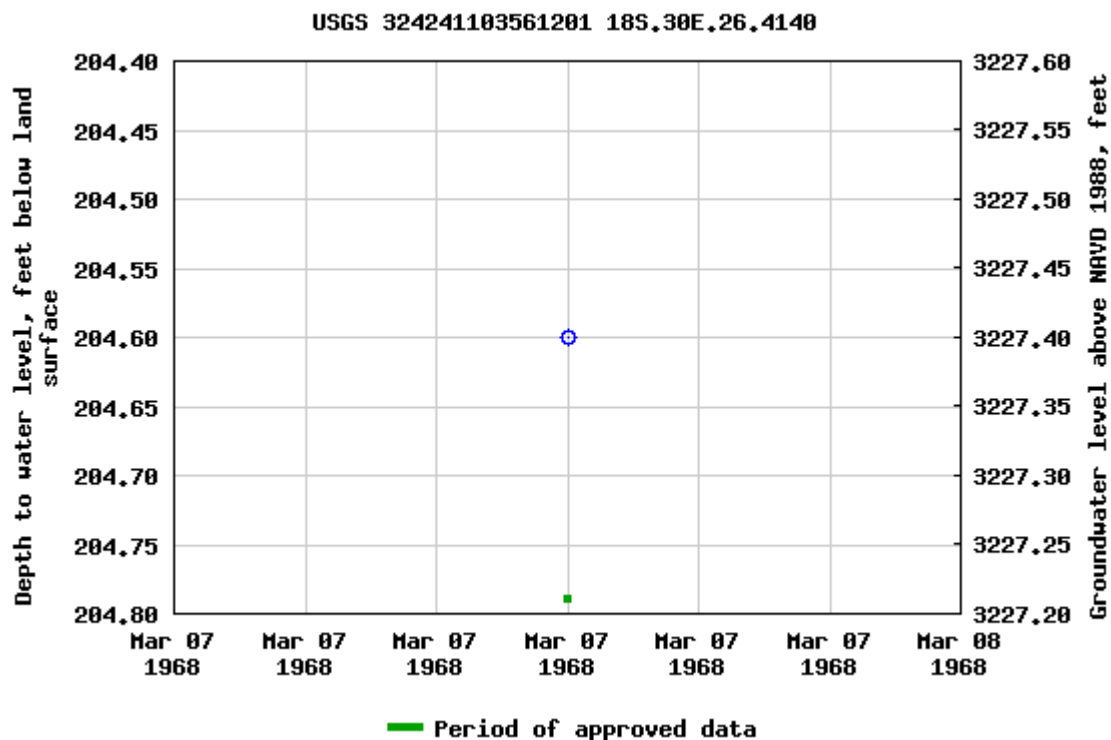
Output formats

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

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Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2024-05-30 09:48:59 EDT

0.56 0.48 nadww01





National Water Information System: Mapper



Shugart W Fed 29 CTB 1

Devon Energy
Facility ID fAPP2130628309
Eddy County, NM
nAPP2313055690
nAB1808253927
Surface Water Map

Legend

-  5.71 Miles
-  Hackberry Lake

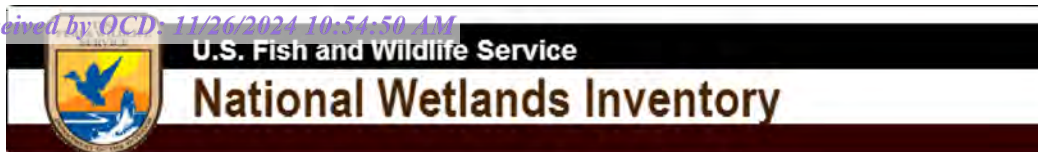
Shugart W Fed 29 CTB 1
West Shugart 29 Fed #1

Hackberry Lake

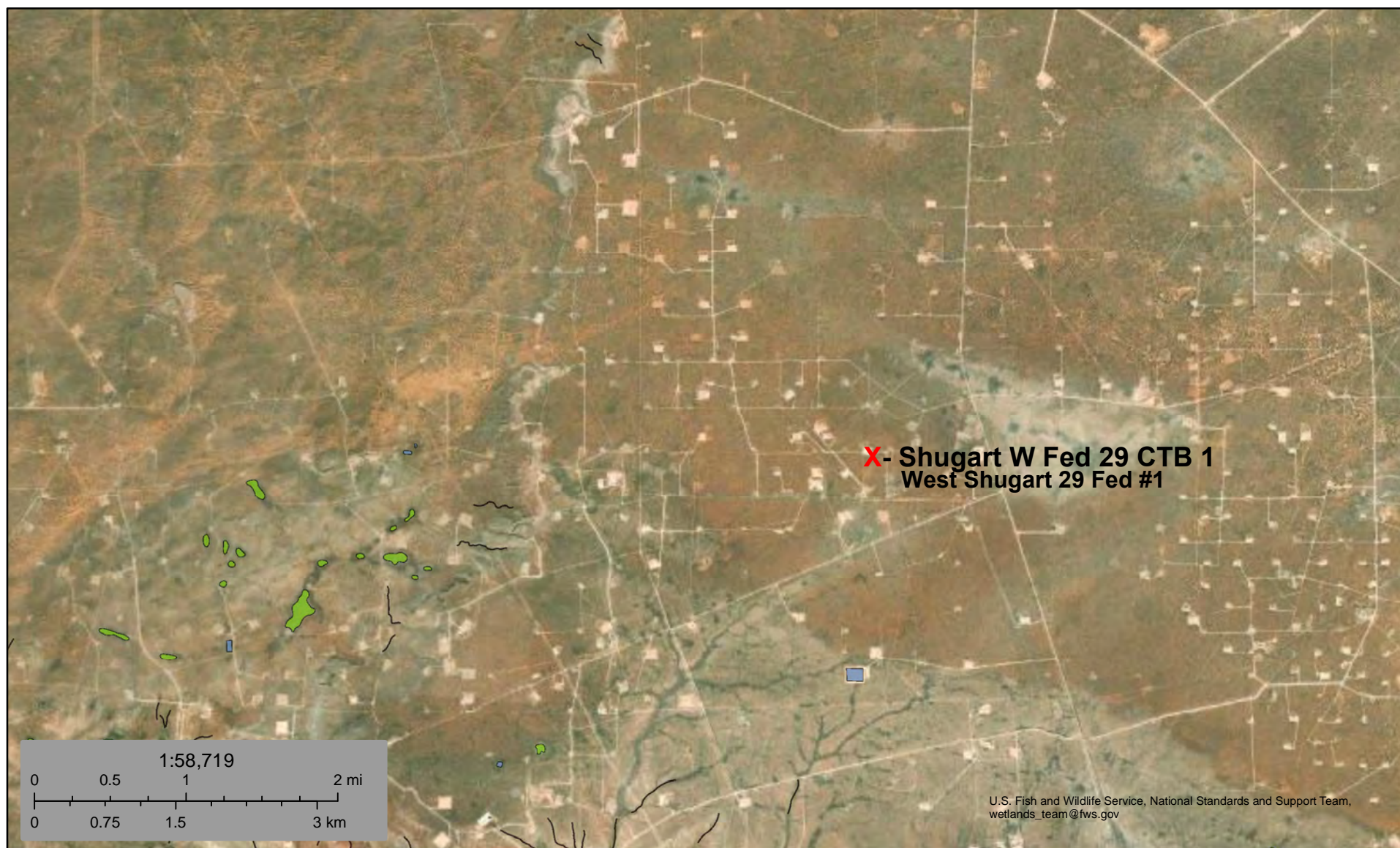


3 mi

Google Earth








Wetlands Map






January 9, 2023

Wetlands

-  Estuarine and Marine Deepwater
-  Estuarine and Marine Wetland

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

-  Lake
-  Other
-  Riverine

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

National Flood Hazard Layer FIRMMette



103°54'W 32°43'11"N



Legend

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

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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/23/2022 at 1:24 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.

Appendix B

Soil Survey

Soil Map

Geologic Unit Map

Map Unit Description: Berino loamy fine sand, 0 to 3 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

BA—Berino loamy fine sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w42

Elevation: 2,000 to 5,700 feet

Mean annual precipitation: 6 to 14 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 260 days

Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 99 percent

Minor components: 1 percent

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

Description of Berino

Setting

Landform: Plains, fan piedmonts

Landform position (three-dimensional): Riser

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 12 inches: loamy fine sand

H2 - 12 to 58 inches: sandy clay loam

H3 - 58 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

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

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 8.4 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Land capability classification (nonirrigated): 7e

Map Unit Description: Berino loamy fine sand, 0 to 3 percent slopes---Eddy Area, New Mexico

Hydrologic Soil Group: B
Ecological site: R042XC007NM - Loamy
Hydric soil rating: No

Minor Components

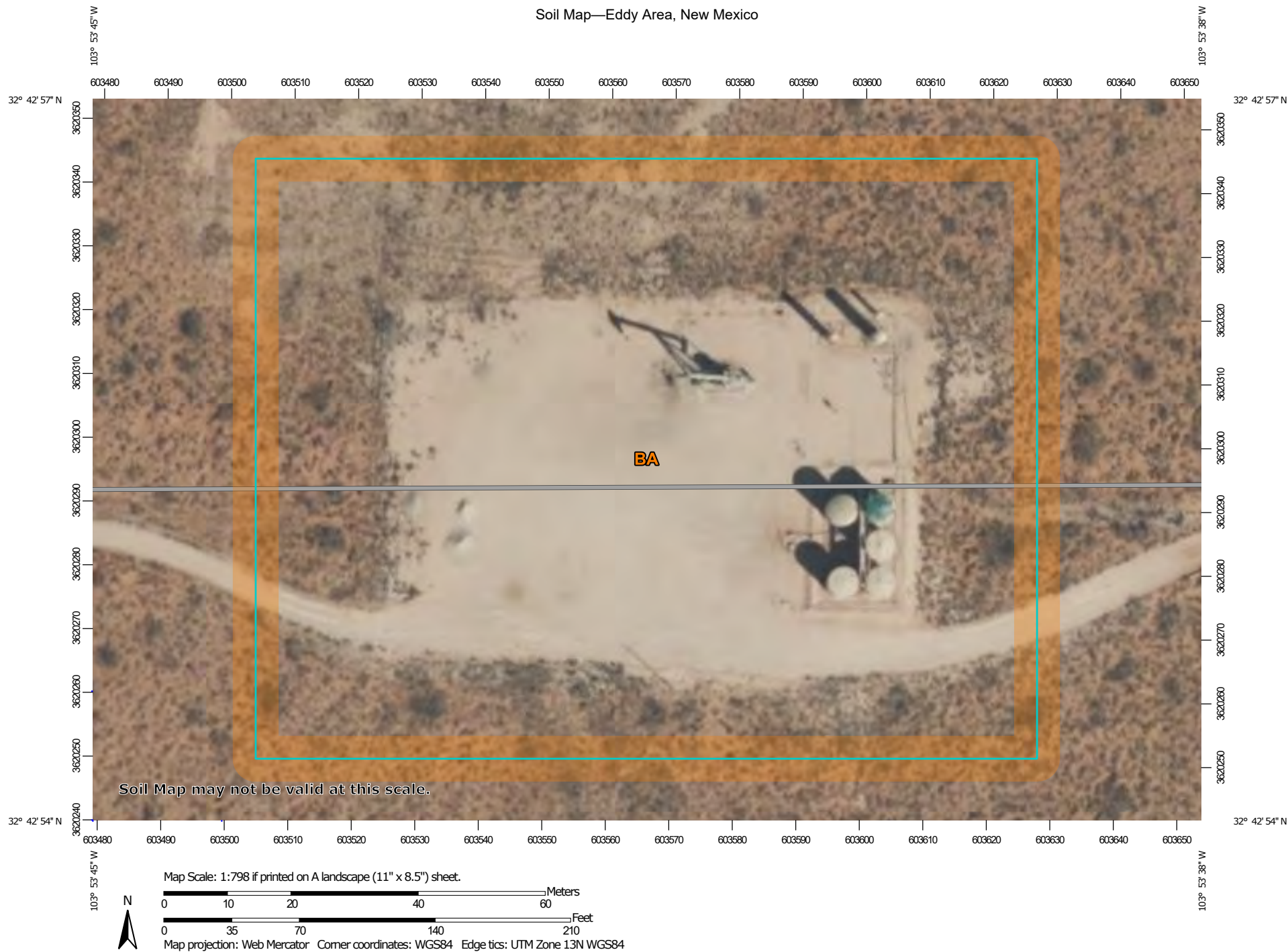
Pajarito

Percent of map unit: 1 percent
Ecological site: R042XC003NM - Loamy Sand
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 17, Sep 12, 2021

Soil Map—Eddy Area, New Mexico



Natural Resources
Conservation Service


Web Soil Survey
National Cooperative Soil Survey

7/9/2024
Page 1 of 3


Soil Map—Eddy Area, New Mexico

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 19, Sep 7, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.





Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BA	Berino loamy fine sand, 0 to 3 percent slopes	2.9	100.0%
Totals for Area of Interest		2.9	100.0%

Shugart W Fed 29 CTB 1

Devon Energy
Facility ID fAPP2130628309
Eddy County, NM
nAPP2313055690
nAB1808253927
Geologic Unit Map

Legend

-  Eolian and piedmont deposits
-  Quartermaster and Rustler Formations

Shugart W Fed 29 CTB 1
West Shugart 29 Fed #1

Google Earth



Appendix C

Initial C-141 Forms

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

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

ARTESIA DISTRICT

MAR 22 2018

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.
RECEIVED

Release Notification and Corrective Action

NAB1808253927

OPERATOR
☒ Initial Report ☐ Final Report

Name of Company Devon Energy Production Company 10137	Contact Hubert Perry
Address 6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No. 575-748-3371
Facility Name West Shugart 29 Federal I	Facility Type Gas

Surface Owner Federal	Mineral Owner Federal	API No. 30-015-29948
-----------------------	-----------------------	----------------------

LOCATION OF RELEASE

Unit Letter K	Section 29	Township 18S	Range 31E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
------------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	----------------

Latitude 32.71539

Longitude 103.89449

NAD83

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 9.4 bbls	Volume Recovered 5 bbls
Source of Release Produced Water Tank	Date and Hour of Occurrence March 11, 2018 1:00 PM MST	Date and Hour of Discovery March 11, 2018 1:00 PM MST
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? BLM- Shelly Tucker OCD-Mike Bratcher, Crystal Weaver	
By Whom? Mike Shoemaker	Date and Hour March 12, 2018 12:55 PM MST	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

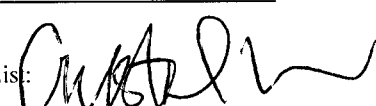

Describe Cause of Problem and Remedial Action Taken.*

The water haulers did not pull load from water tank and tank over filled spilling produced water into the dirt SPCC containment. All fluids stayed in the earthen SPCC containment. The wells were immediately shut off to prevent farther release.

Describe Area Affected and Cleanup Action Taken.*

Approximately 9.4 bbls of produced water was released from the water tank in an unlined earthen berm SPCC containment. A vacuum truck was dispatched and recovered approximately 5 bbls of produced water. An environmental contractor will be contacted to assist with delineation and remediation efforts.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOC 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.

Signature: Jennifer Reyna		OIL CONSERVATION DIVISION	
Printed Name: Jennifer Reyna		Approved by Environmental Specialist: 	
Title: Field Admin Support		Approval Date: 3/23/18	Expiration Date: N/A
E-mail Address: Jennifer.Reyna@dvn.com		Conditions of Approval: see attached	Attached: 
Date: 3/13/2018	Phone: 575.746.5588		

* Attach Additional Sheets If Necessary

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2313055690
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Dale Woodall	Contact Telephone
Contact email Dale.Woodall@dvn.com	Incident # (assigned by OCD)
Contact mailing address 6488 Seven Rivers Hwy Artesia, NM 88210	

Location of Release Source

Latitude 32.715689 Longitude -103.894910
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Shugart W Fed 29 CTB 1	Site Type Oil
Date Release Discovered 5/10/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
K	29	18S	31E	Eddy

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 6.9 BBLS	Volume Recovered (bbls) 4 BBLS
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Pin hole leak developed causing oil spill.

Incident ID	nAPP2313055690
District RP	
Facility ID	
Application ID	

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

Initial Response

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

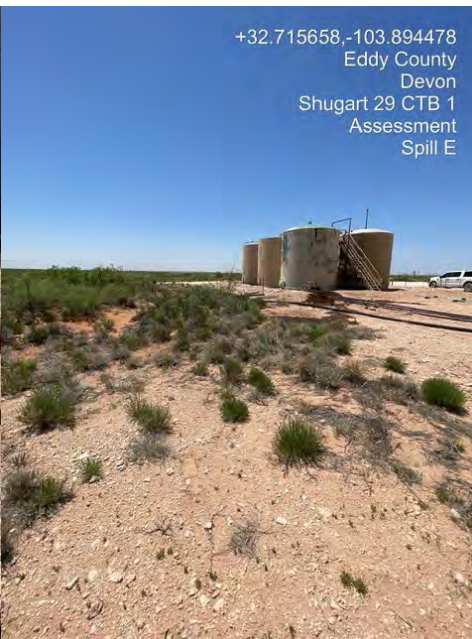
<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Kendra Ruiz</u> Signature: <u><i>Kendra Ruiz</i></u> email: <u>Kendra.Ruiz@dvn.com</u>	Title: <u>EHS Associate</u> Date: <u>5/19/2023</u> Telephone: <u>575-748-0167</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>05/19/2023</u>

Appendix D

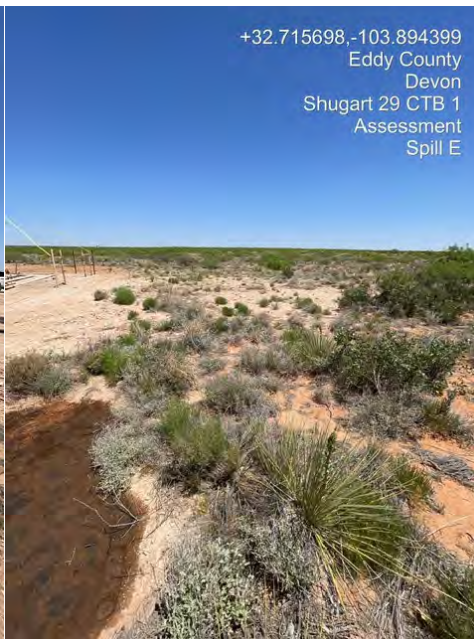
Photographic Documentation



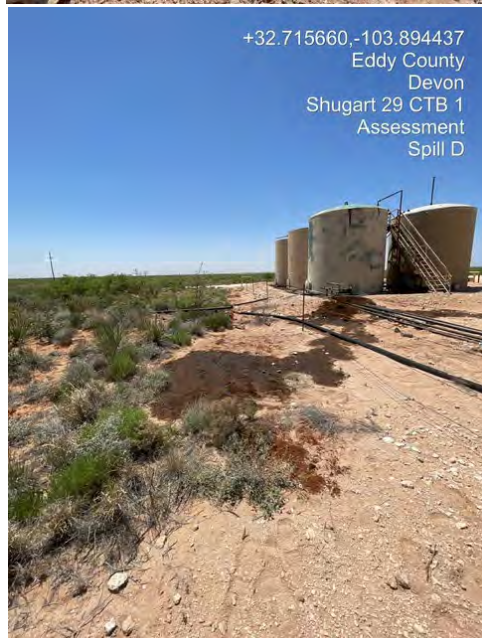
+32.715658,-103.894478
Eddy County
Devon
Shugart 29 CTB 1
Assessment
Spill E



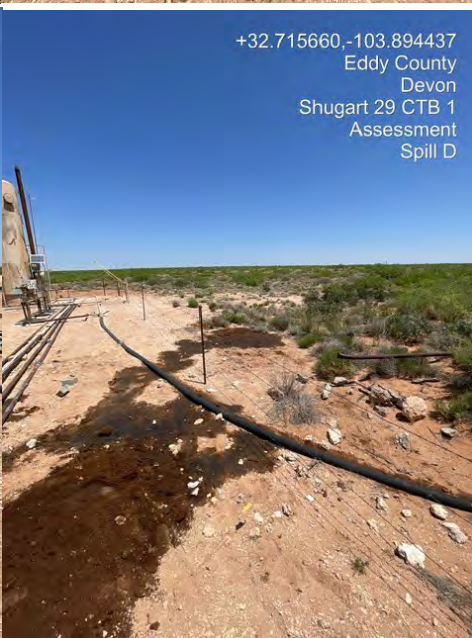
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Eddy County
Devon
Shugart 29 CTB 1
Assessment
Spill E



+32.715660,-103.894437
Eddy County
Devon
Shugart 29 CTB 1
Assessment
Spill D



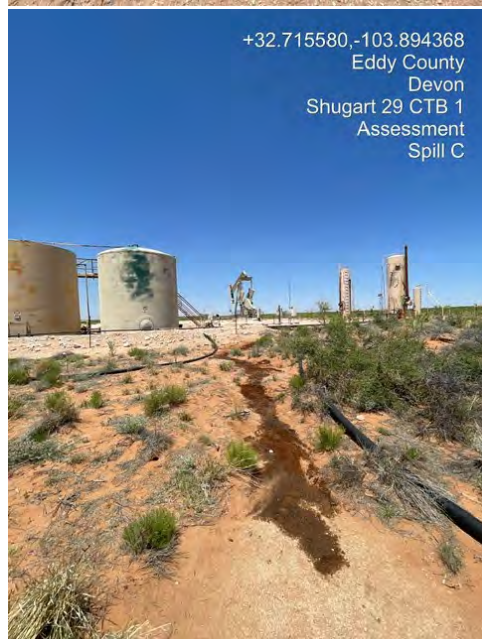
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Eddy County
Devon
Shugart 29 CTB 1
Assessment
Spill D



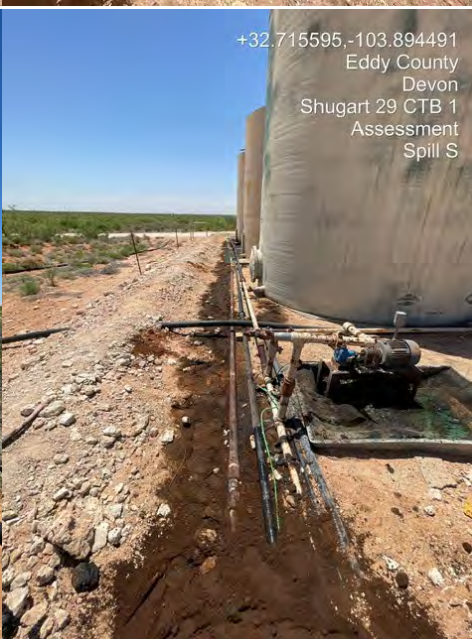
+32.715660,-103.894437
Eddy County
Devon
Shugart 29 CTB 1
Assessment
Spill C



+32.715580,-103.894368
Eddy County
Devon
Shugart 29 CTB 1
Assessment
Spill C

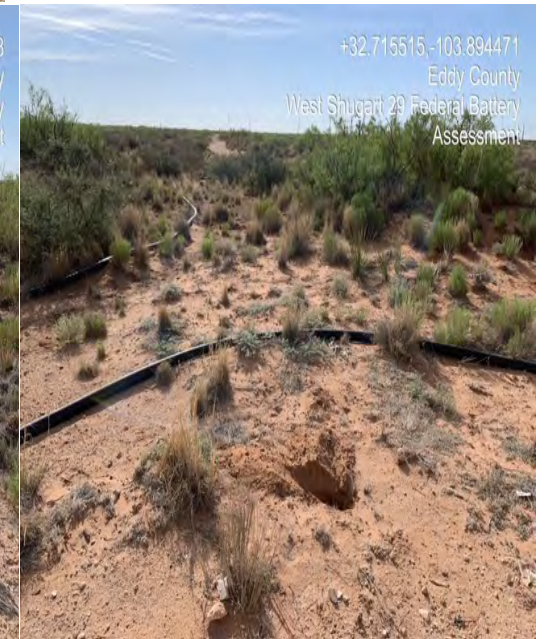
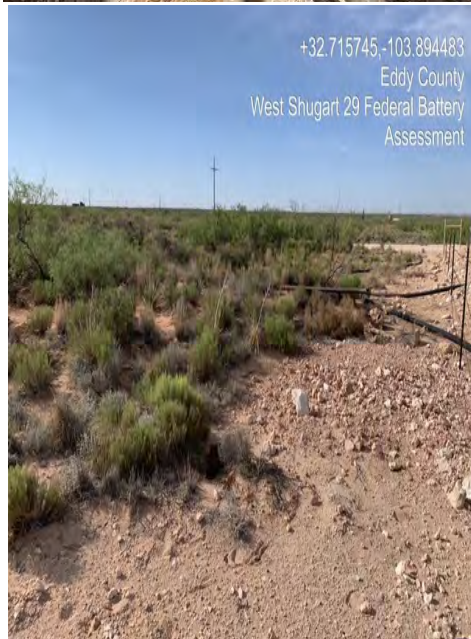
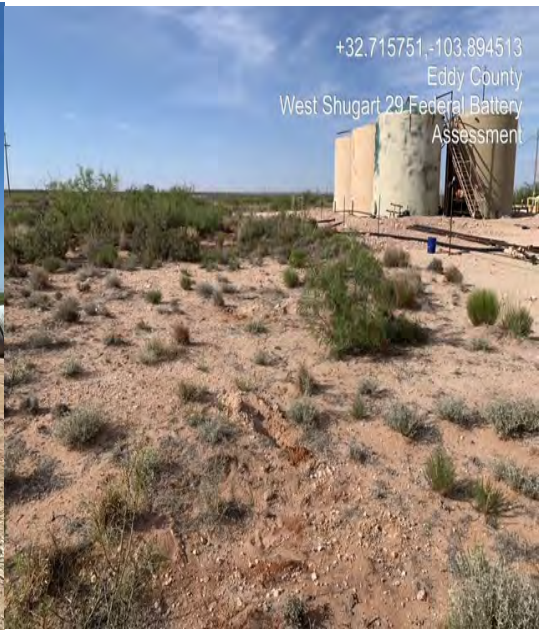
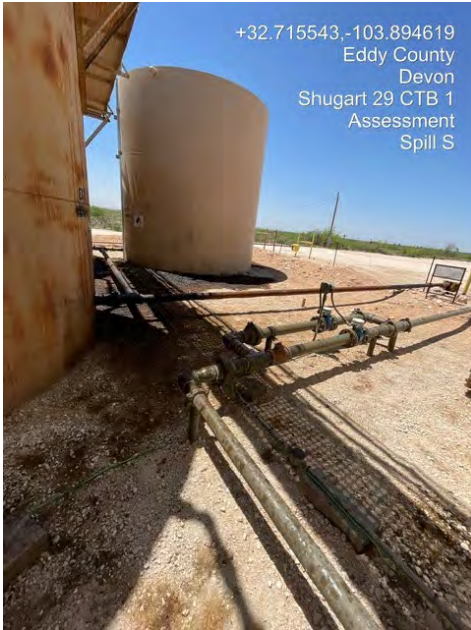
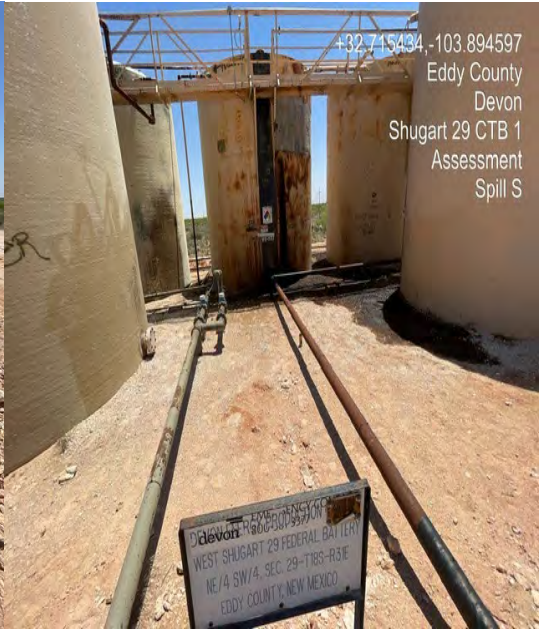
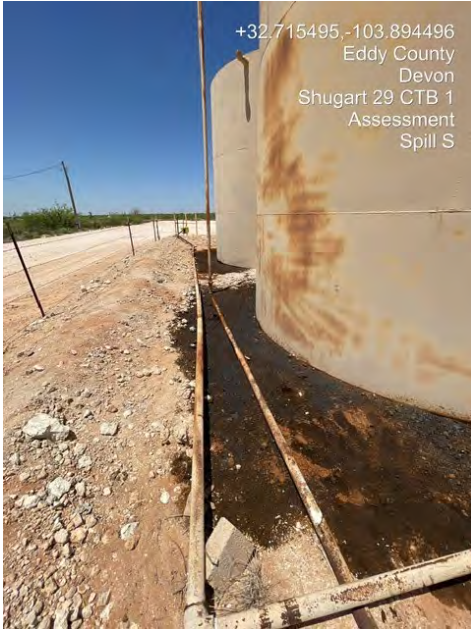


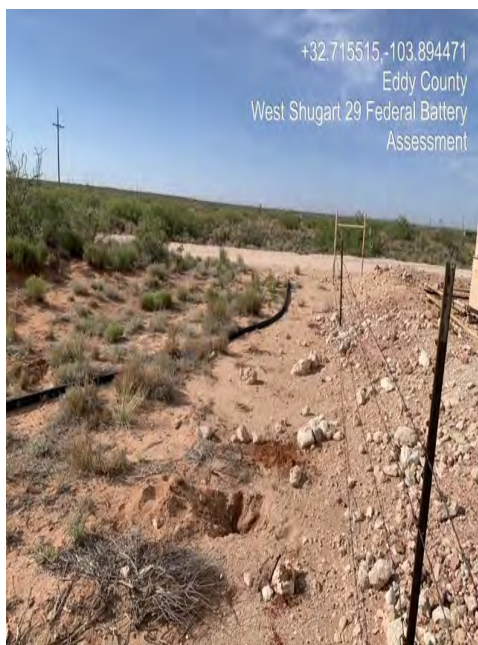
+32.715595,-103.894491
Eddy County
Devon
Shugart 29 CTB 1
Assessment
Spill S



+32.715495,-103.894496
Eddy County
Devon
Shugart 29 CTB 1
Assessment
Spill S









Appendix E

Laboratory Reports

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Shugart W Fed 29 CTB 1

Work Order: E305132

Job Number: 01058-0007

Received: 5/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/26/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 5/26/23



Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Shugart W Fed 29 CTB 1
Workorder: E305132
Date Received: 5/23/2023 8:15:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/23/2023 8:15:00AM, under the Project Name: Shugart W Fed 29 CTB 1.

The analytical test results summarized in this report with the Project Name: Shugart W Fed 29 CTB 1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	05/26/23 08:37

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - 1'	E305132-01A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
S1 - 2'	E305132-02A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
S1 - 3'	E305132-03A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
S1 - 4'	E305132-04A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
S2 - 1'	E305132-05A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
S2 - 2'	E305132-06A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
S2 - 3'	E305132-07A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
S2 - 4'	E305132-08A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
S3 - 1'	E305132-09A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
S3 - 2'	E305132-10A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
S3 - 3'	E305132-11A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
S3 - 4'	E305132-12A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
S4 - 1'	E305132-13A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
S4 - 2'	E305132-14A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
S4 - 3'	E305132-15A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
S4 - 4'	E305132-16A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
SW1	E305132-17A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
SW2	E305132-18A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
SW3	E305132-19A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
SW4	E305132-20A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 8:37:46AM

S1 - 1'

E305132-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2321031	
Benzene	0.536	0.125	5	05/23/23	05/24/23	
Ethylbenzene	3.73	0.125	5	05/23/23	05/24/23	
Toluene	1.77	0.125	5	05/23/23	05/24/23	
o-Xylene	4.06	0.125	5	05/23/23	05/24/23	
p,m-Xylene	8.85	0.250	5	05/23/23	05/24/23	
Total Xylenes	12.9	0.125	5	05/23/23	05/24/23	
Surrogate: 4-Bromochlorobenzene-PID	115 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2321031	
Gasoline Range Organics (C6-C10)	488	100	5	05/23/23	05/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	109 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321043	
Diesel Range Organics (C10-C28)	20800	1250	50	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	7970	2500	50	05/23/23	05/24/23	
Surrogate: n-Nonane	251 %	50-200		05/23/23	05/24/23	SS
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2321039	
Chloride	113	20.0	1	05/23/23	05/25/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 8:37:46AM

S1 - 2'

E305132-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321031
Benzene	0.201	0.125	5	05/23/23	05/24/23	
Ethylbenzene	2.87	0.125	5	05/23/23	05/24/23	
Toluene	1.07	0.125	5	05/23/23	05/24/23	
o-Xylene	3.12	0.125	5	05/23/23	05/24/23	
p,m-Xylene	7.02	0.250	5	05/23/23	05/24/23	
Total Xylenes	10.1	0.125	5	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		116 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321031
Gasoline Range Organics (C6-C10)	396	100	5	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		107 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321043
Diesel Range Organics (C10-C28)	16600	1250	50	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	6850	2500	50	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>						
		215 %	50-200	05/23/23	05/24/23	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321039
Chloride	75.9	20.0	1	05/23/23	05/25/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported: 5/26/2023 8:37:46AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S1 - 3'

E305132-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321031	
Benzene	0.211	0.125	5	05/23/23	05/24/23	
Ethylbenzene	2.44	0.125	5	05/23/23	05/24/23	
Toluene	0.914	0.125	5	05/23/23	05/24/23	
o-Xylene	2.66	0.125	5	05/23/23	05/24/23	
p,m-Xylene	6.14	0.250	5	05/23/23	05/24/23	
Total Xylenes	8.80	0.125	5	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	115 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321031	
Gasoline Range Organics (C6-C10)	363	100	5	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2321043	
Diesel Range Organics (C10-C28)	12500	1250	50	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	5050	2500	50	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>						
	191 %	50-200		05/23/23	05/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2321039	
Chloride	54.9	20.0	1	05/23/23	05/25/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 8:37:46AM

S1 - 4'

E305132-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321031
Benzene	ND	0.125	5	05/23/23	05/24/23	
Ethylbenzene	0.964	0.125	5	05/23/23	05/24/23	
Toluene	0.278	0.125	5	05/23/23	05/24/23	
o-Xylene	1.07	0.125	5	05/23/23	05/24/23	
p,m-Xylene	2.73	0.250	5	05/23/23	05/24/23	
Total Xylenes	3.79	0.125	5	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		111 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321031
Gasoline Range Organics (C6-C10)	183	100	5	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.2 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321043
Diesel Range Organics (C10-C28)	14300	1250	50	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	5920	2500	50	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>						
		365 %	50-200	05/23/23	05/24/23	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321039
Chloride	23.2	20.0	1	05/23/23	05/25/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 8:37:46AM

S2 - 1'

E305132-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321031
Benzene	0.432	0.125	5	05/23/23	05/24/23	
Ethylbenzene	3.79	0.125	5	05/23/23	05/24/23	
Toluene	1.64	0.125	5	05/23/23	05/24/23	
o-Xylene	4.23	0.125	5	05/23/23	05/24/23	
p,m-Xylene	9.05	0.250	5	05/23/23	05/24/23	
Total Xylenes	13.3	0.125	5	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		117 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321031
Gasoline Range Organics (C6-C10)	502	100	5	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		110 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321043
Diesel Range Organics (C10-C28)	22000	1250	50	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	8130	2500	50	05/23/23	05/25/23	
<i>Surrogate: n-Nonane</i>						
		252 %	50-200	05/23/23	05/25/23	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321039
Chloride	100	20.0	1	05/23/23	05/25/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 8:37:46AM

S2 - 2'

E305132-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321031
Benzene	0.263	0.125	5	05/23/23	05/24/23	
Ethylbenzene	2.86	0.125	5	05/23/23	05/24/23	
Toluene	1.13	0.125	5	05/23/23	05/24/23	
o-Xylene	3.11	0.125	5	05/23/23	05/24/23	
p,m-Xylene	7.01	0.250	5	05/23/23	05/24/23	
Total Xylenes	10.1	0.125	5	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		116 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321031
Gasoline Range Organics (C6-C10)	411	100	5	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		106 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321043
Diesel Range Organics (C10-C28)	18100	1250	50	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	7040	2500	50	05/23/23	05/25/23	
<i>Surrogate: n-Nonane</i>						
		236 %	50-200	05/23/23	05/25/23	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321039
Chloride	72.5	20.0	1	05/23/23	05/25/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 8:37:46AM

S2 - 3'

E305132-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321031
Benzene	0.250	0.125	5	05/23/23	05/24/23	
Ethylbenzene	3.01	0.125	5	05/23/23	05/24/23	
Toluene	1.15	0.125	5	05/23/23	05/24/23	
o-Xylene	3.33	0.125	5	05/23/23	05/24/23	
p,m-Xylene	7.47	0.250	5	05/23/23	05/24/23	
Total Xylenes	10.8	0.125	5	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		116 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321031
Gasoline Range Organics (C6-C10)	425	100	5	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		107 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321043
Diesel Range Organics (C10-C28)	18400	1250	50	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	7410	2500	50	05/23/23	05/25/23	
<i>Surrogate: n-Nonane</i>						
		241 %	50-200	05/23/23	05/25/23	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321039
Chloride	87.2	20.0	1	05/23/23	05/25/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 8:37:46AM

S2 - 4'

E305132-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321031	
Benzene	0.323	0.125	5	05/23/23	05/24/23	
Ethylbenzene	3.20	0.125	5	05/23/23	05/24/23	
Toluene	1.25	0.125	5	05/23/23	05/24/23	
o-Xylene	3.48	0.125	5	05/23/23	05/24/23	
p,m-Xylene	7.69	0.250	5	05/23/23	05/24/23	
Total Xylenes	11.2	0.125	5	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		116 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321031	
Gasoline Range Organics (C6-C10)	442	100	5	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		108 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2321043	
Diesel Range Organics (C10-C28)	15200	1250	50	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	6280	2500	50	05/23/23	05/25/23	
<i>Surrogate: n-Nonane</i>						
		213 %	50-200	05/23/23	05/25/23	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2321039	
Chloride	83.1	20.0	1	05/23/23	05/25/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 8:37:46AM

S3 - 1'

E305132-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321031	
Benzene	0.437	0.125	5	05/23/23	05/24/23	
Ethylbenzene	4.09	0.125	5	05/23/23	05/24/23	
Toluene	1.72	0.125	5	05/23/23	05/24/23	
o-Xylene	4.53	0.125	5	05/23/23	05/24/23	
p,m-Xylene	9.60	0.250	5	05/23/23	05/24/23	
Total Xylenes	14.1	0.125	5	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	116 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321031	
Gasoline Range Organics (C6-C10)	529	100	5	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	112 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2321043	
Diesel Range Organics (C10-C28)	20700	1250	50	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	8430	2500	50	05/23/23	05/25/23	
<i>Surrogate: n-Nonane</i>						
	254 %	50-200		05/23/23	05/25/23	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2321039	
Chloride	95.9	20.0	1	05/23/23	05/25/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Shugart W Fed 29 CTB 1 Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 5/26/2023 8:37:46AM
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S3 - 2'

E305132-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2321031	
Benzene	0.132	0.125	5	05/23/23	05/24/23	
Ethylbenzene	1.93	0.125	5	05/23/23	05/24/23	
Toluene	0.672	0.125	5	05/23/23	05/24/23	
o-Xylene	2.10	0.125	5	05/23/23	05/24/23	
p,m-Xylene	5.00	0.250	5	05/23/23	05/24/23	
Total Xylenes	7.11	0.125	5	05/23/23	05/24/23	
Surrogate: 4-Bromochlorobenzene-PID	115 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2321031	
Gasoline Range Organics (C6-C10)	302	100	5	05/23/23	05/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	100 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321043	
Diesel Range Organics (C10-C28)	8690	1250	50	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	3920	2500	50	05/23/23	05/25/23	
Surrogate: n-Nonane	165 %	50-200		05/23/23	05/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2321039	
Chloride	51.3	20.0	1	05/23/23	05/25/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 8:37:46AM

S3 - 3'

E305132-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321031	
Benzene	0.121	0.0500	2	05/23/23	05/25/23	
Ethylbenzene	1.72	0.0500	2	05/23/23	05/25/23	
Toluene	0.639	0.0500	2	05/23/23	05/25/23	
o-Xylene	1.93	0.0500	2	05/23/23	05/25/23	
p,m-Xylene	4.29	0.100	2	05/23/23	05/25/23	
Total Xylenes	6.21	0.0500	2	05/23/23	05/25/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	118 %	70-130		05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321031	
Gasoline Range Organics (C6-C10)	243	40.0	2	05/23/23	05/25/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	116 %	70-130		05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2321043	
Diesel Range Organics (C10-C28)	12200	1250	50	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	5000	2500	50	05/23/23	05/25/23	
<i>Surrogate: n-Nonane</i>						
	184 %	50-200		05/23/23	05/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2321039	
Chloride	52.8	20.0	1	05/23/23	05/25/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported: 5/26/2023 8:37:46AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S3 - 4'

E305132-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2321031	
Benzene	0.183	0.0500	2	05/23/23	05/25/23	
Ethylbenzene	2.04	0.0500	2	05/23/23	05/25/23	
Toluene	0.822	0.0500	2	05/23/23	05/25/23	
o-Xylene	2.32	0.0500	2	05/23/23	05/25/23	
p,m-Xylene	5.05	0.100	2	05/23/23	05/25/23	
Total Xylenes	7.37	0.0500	2	05/23/23	05/25/23	
Surrogate: 4-Bromochlorobenzene-PID		120 %	70-130	05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2321031	
Gasoline Range Organics (C6-C10)	287	40.0	2	05/23/23	05/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		119 %	70-130	05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321043	
Diesel Range Organics (C10-C28)	11200	1250	50	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	4560	2500	50	05/23/23	05/25/23	
Surrogate: n-Nonane		187 %	50-200	05/23/23	05/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2321039	
Chloride	59.7	20.0	1	05/23/23	05/25/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 8:37:46AM

S4 - 1'

E305132-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321031
Benzene	0.444	0.125	5	05/23/23	05/25/23	
Ethylbenzene	4.03	0.125	5	05/23/23	05/25/23	
Toluene	1.69	0.125	5	05/23/23	05/25/23	
o-Xylene	4.51	0.125	5	05/23/23	05/25/23	
p,m-Xylene	9.44	0.250	5	05/23/23	05/25/23	
Total Xylenes	13.9	0.125	5	05/23/23	05/25/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		116 %	70-130	05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321031
Gasoline Range Organics (C6-C10)	527	100	5	05/23/23	05/25/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		110 %	70-130	05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321043
Diesel Range Organics (C10-C28)	23400	1250	50	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	9310	2500	50	05/23/23	05/25/23	
<i>Surrogate: n-Nonane</i>						
		274 %	50-200	05/23/23	05/25/23	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321039
Chloride	95.5	20.0	1	05/23/23	05/25/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 8:37:46AM

S4 - 2'

E305132-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321031	
Benzene	ND	0.125	5	05/23/23	05/25/23	
Ethylbenzene	0.865	0.125	5	05/23/23	05/25/23	
Toluene	0.239	0.125	5	05/23/23	05/25/23	
o-Xylene	0.998	0.125	5	05/23/23	05/25/23	
p,m-Xylene	2.55	0.250	5	05/23/23	05/25/23	
Total Xylenes	3.55	0.125	5	05/23/23	05/25/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		111 %	70-130	05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321031	
Gasoline Range Organics (C6-C10)	173	100	5	05/23/23	05/25/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.2 %	70-130	05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2321043	
Diesel Range Organics (C10-C28)	4820	500	20	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	2070	1000	20	05/23/23	05/25/23	
<i>Surrogate: n-Nonane</i>						
		139 %	50-200	05/23/23	05/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2321039	
Chloride	26.7	20.0	1	05/23/23	05/25/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Shugart W Fed 29 CTB 1 Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 5/26/2023 8:37:46AM
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S4 - 3'

E305132-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2321031	
Benzene	ND	0.0250	1	05/23/23	05/25/23	
Ethylbenzene	0.236	0.0250	1	05/23/23	05/25/23	
Toluene	0.0590	0.0250	1	05/23/23	05/25/23	
o-Xylene	0.343	0.0250	1	05/23/23	05/25/23	
p,m-Xylene	0.531	0.0500	1	05/23/23	05/25/23	
Total Xylenes	0.874	0.0250	1	05/23/23	05/25/23	
Surrogate: 4-Bromochlorobenzene-PID	109 %	70-130		05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2321031	
Gasoline Range Organics (C6-C10)	22.8	20.0	1	05/23/23	05/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.8 %	70-130		05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321043	
Diesel Range Organics (C10-C28)	4570	500	20	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	1930	1000	20	05/23/23	05/25/23	
Surrogate: n-Nonane	139 %	50-200		05/23/23	05/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2321039	
Chloride	61.2	20.0	1	05/23/23	05/25/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 8:37:46AM

S4 - 4'

E305132-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321031
Benzene	ND	0.0250	1	05/23/23	05/25/23	
Ethylbenzene	0.509	0.0250	1	05/23/23	05/25/23	
Toluene	0.130	0.0250	1	05/23/23	05/25/23	
o-Xylene	0.639	0.0250	1	05/23/23	05/25/23	
p,m-Xylene	1.24	0.0500	1	05/23/23	05/25/23	
Total Xylenes	1.88	0.0250	1	05/23/23	05/25/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		115 %	70-130	05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321031
Gasoline Range Organics (C6-C10)	64.8	20.0	1	05/23/23	05/25/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		101 %	70-130	05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321043
Diesel Range Organics (C10-C28)	2810	500	20	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	1300	1000	20	05/23/23	05/25/23	
<i>Surrogate: n-Nonane</i>						
		130 %	50-200	05/23/23	05/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321039
Chloride	32.8	20.0	1	05/23/23	05/25/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 8:37:46AM

SW1

E305132-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321031
Benzene	ND	0.0250	1	05/23/23	05/25/23	
Ethylbenzene	ND	0.0250	1	05/23/23	05/25/23	
Toluene	ND	0.0250	1	05/23/23	05/25/23	
o-Xylene	ND	0.0250	1	05/23/23	05/25/23	
p,m-Xylene	ND	0.0500	1	05/23/23	05/25/23	
Total Xylenes	ND	0.0250	1	05/23/23	05/25/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321031
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/23	05/25/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.5 %	70-130	05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321043
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>						
		111 %	50-200	05/23/23	05/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321039
Chloride	ND	20.0	1	05/23/23	05/25/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 8:37:46AM

SW2

E305132-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321031
Benzene	ND	0.0250	1	05/23/23	05/25/23	
Ethylbenzene	ND	0.0250	1	05/23/23	05/25/23	
Toluene	ND	0.0250	1	05/23/23	05/25/23	
o-Xylene	ND	0.0250	1	05/23/23	05/25/23	
p,m-Xylene	ND	0.0500	1	05/23/23	05/25/23	
Total Xylenes	ND	0.0250	1	05/23/23	05/25/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321031
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/23	05/25/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.3 %	70-130	05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321043
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>						
		114 %	50-200	05/23/23	05/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321039
Chloride	ND	20.0	1	05/23/23	05/25/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported: 5/26/2023 8:37:46AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

SW3

E305132-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2321031	
Benzene	ND	0.0250	1	05/23/23	05/25/23	
Ethylbenzene	ND	0.0250	1	05/23/23	05/25/23	
Toluene	ND	0.0250	1	05/23/23	05/25/23	
o-Xylene	ND	0.0250	1	05/23/23	05/25/23	
p,m-Xylene	ND	0.0500	1	05/23/23	05/25/23	
Total Xylenes	ND	0.0250	1	05/23/23	05/25/23	
Surrogate: 4-Bromochlorobenzene-PID	105 %	70-130		05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2321031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/23	05/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.8 %	70-130		05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321043	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/23	05/24/23	
Surrogate: n-Nonane	110 %	50-200		05/23/23	05/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2321039	
Chloride	ND	20.0	1	05/23/23	05/25/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported: 5/26/2023 8:37:46AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

SW4

E305132-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2321031	
Benzene	ND	0.0250	1	05/23/23	05/25/23	
Ethylbenzene	ND	0.0250	1	05/23/23	05/25/23	
Toluene	ND	0.0250	1	05/23/23	05/25/23	
o-Xylene	ND	0.0250	1	05/23/23	05/25/23	
p,m-Xylene	ND	0.0500	1	05/23/23	05/25/23	
Total Xylenes	ND	0.0250	1	05/23/23	05/25/23	
Surrogate: 4-Bromochlorobenzene-PID	105 %	70-130		05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2321031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/23	05/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.2 %	70-130		05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321043	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/23	05/24/23	
Surrogate: n-Nonane	111 %	50-200		05/23/23	05/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2321039	
Chloride	ND	20.0	1	05/23/23	05/25/23	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/26/2023 8:37:46AM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2321031-BLK1) Prepared: 05/23/23 Analyzed: 05/24/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.36		8.00		105	70-130			

LCS (2321031-BS1) Prepared: 05/23/23 Analyzed: 05/24/23

Benzene	4.03	0.0250	5.00		80.6	70-130			
Ethylbenzene	4.18	0.0250	5.00		83.6	70-130			
Toluene	4.33	0.0250	5.00		86.6	70-130			
o-Xylene	4.44	0.0250	5.00		88.8	70-130			
p,m-Xylene	8.67	0.0500	10.0		86.7	70-130			
Total Xylenes	13.1	0.0250	15.0		87.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.43		8.00		105	70-130			

Matrix Spike (2321031-MS1) Source: E305132-02 Prepared: 05/23/23 Analyzed: 05/24/23

Benzene	21.1	0.125	25.0	0.201	83.6	54-133			
Ethylbenzene	25.6	0.125	25.0	2.87	91.1	61-133			
Toluene	23.4	0.125	25.0	1.07	89.3	61-130			
o-Xylene	26.4	0.125	25.0	3.12	93.2	63-131			
p,m-Xylene	51.0	0.250	50.0	7.02	87.9	63-131			
Total Xylenes	77.4	0.125	75.0	10.1	89.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	46.9		40.0		117	70-130			

Matrix Spike Dup (2321031-MSD1) Source: E305132-02 Prepared: 05/23/23 Analyzed: 05/24/23

Benzene	21.8	0.125	25.0	0.201	86.5	54-133	3.40	20	
Ethylbenzene	26.3	0.125	25.0	2.87	93.9	61-133	2.68	20	
Toluene	24.2	0.125	25.0	1.07	92.4	61-130	3.23	20	
o-Xylene	27.1	0.125	25.0	3.12	95.9	63-131	2.60	20	
p,m-Xylene	52.3	0.250	50.0	7.02	90.6	63-131	2.61	20	
Total Xylenes	79.4	0.125	75.0	10.1	92.4	63-131	2.60	20	
Surrogate: 4-Bromochlorobenzene-PID	46.8		40.0		117	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported: 5/26/2023 8:37:46AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2321031-BLK1) Prepared: 05/23/23 Analyzed: 05/24/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.8	70-130			

LCS (2321031-BS2) Prepared: 05/23/23 Analyzed: 05/24/23

Gasoline Range Organics (C6-C10)	47.0	20.0	50.0		93.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.5	70-130			

Matrix Spike (2321031-MS2) Source: E305132-02 Prepared: 05/23/23 Analyzed: 05/24/23

Gasoline Range Organics (C6-C10)	661	100	250	396	106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	43.6		40.0		109	70-130			

Matrix Spike Dup (2321031-MSD2) Source: E305132-02 Prepared: 05/23/23 Analyzed: 05/24/23

Gasoline Range Organics (C6-C10)	640	100	250	396	97.7	70-130	3.29	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	43.6		40.0		109	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/26/2023 8:37:46AM

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 (2321043-BLK1)					Prepared: 05/23/23 Analyzed: 05/24/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	62.1		50.0		124	50-200			

LCS (2321043-BS1)					Prepared: 05/23/23 Analyzed: 05/24/23				
Diesel Range Organics (C10-C28)	274	25.0	250		110	38-132			
Surrogate: n-Nonane	54.0		50.0		108	50-200			

Matrix Spike (2321043-MS1)					Source: E305132-20		Prepared: 05/23/23 Analyzed: 05/24/23		
Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	38-132			
Surrogate: n-Nonane	52.1		50.0		104	50-200			

Matrix Spike Dup (2321043-MSD1)					Source: E305132-20		Prepared: 05/23/23 Analyzed: 05/24/23		
Diesel Range Organics (C10-C28)	281	25.0	250	ND	112	38-132	3.28	20	
Surrogate: n-Nonane	55.1		50.0		110	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/26/2023 8:37:46AM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2321039-BLK1)					Prepared: 05/23/23 Analyzed: 05/25/23				
Chloride	ND	20.0							
LCS (2321039-BS1)					Prepared: 05/23/23 Analyzed: 05/25/23				
Chloride	261	20.0	250		105	90-110			
Matrix Spike (2321039-MS1)					Source: E305132-01		Prepared: 05/23/23 Analyzed: 05/25/23		
Chloride	366	20.0	250	113	101	80-120			
Matrix Spike Dup (2321039-MSD1)					Source: E305132-01		Prepared: 05/23/23 Analyzed: 05/25/23		
Chloride	368	20.0	250	113	102	80-120	0.531	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:	Shugart W Fed 29 CTB 1	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	05/26/23 08:37

- S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



Project Information

Chain of Custody

Page 1 of 5

Client: Pima Environmental Services Project: <u>Shogart W Fed. 29 CTB1</u> Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: <u>Hobbs, NM, 88240</u> Phone: 580-748-1613 Email: <u>tom@pimaoil.com</u> Report due by:					Attention: <u>Bill To De Von</u> Address: City, State, Zip: Phone: Email: Pima Project # <u>205-2</u>					Lab Use Only Lab WO# <u>E 305132</u> Job Number <u>01058-0007</u> Analysis and Method					TAT 1D 2D 3D Standard <u>X</u>				EPA Program CWA SDWA RCRA	
															State NM CO UT AZ TX <u>X</u>					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC NM	BGDOC TX				Remarks		
8:00	5/12/23	S	1	S1-1'	1								X							
8:05				S1-2'	2															
8:10				S1-3'	3															
8:15				S1-4'	4															
8:20				S2-1'	5															
8:25				S2-2'	6															
8:30				S2-3'	7															
8:35				S2-4'	8															
8:40				S3-1'	9															
8:45				S3-2'	10															
Additional Instructions: <u>BH 2116 5881</u>																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time													
<u>Kerime Adams</u>		5/12/23	200	<u>[Signature]</u>		5-22-23	1400													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time													
<u>[Signature]</u>		5-22-23	1730	<u>Andrew Messo</u>		5-22-23	1600													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time													
<u>Andrew Messo</u>		5-22-23	2400	<u>Caitie Mann</u>		5/23/23	8:15													
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 90 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 the report.																				

Project Information

Chain of Custody

Page 2 of 5

Client: Pima Environmental Services					Bill To					Lab Use Only					TAT				EPA Program					
Project: <u>Shugart W Fed. 29 CTBI</u>					Attention: <u>Devon</u>					Lab WO# <u>E 305132</u>					Job Number <u>01058-0007</u>				1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum					Address:					Analysis and Method									RCRA					
Address: 5614 N. Lovington Hwy.					City, State, Zip																			
City, State, Zip <u>Hobbs, NM, 88240</u>					Phone:										State									
Phone: 580-748-1613					Email:																			
Email: tom@pimaoil.com					Pima Project # <u>205-2</u>																			
Report due by:																								

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
8:50	5/12/23	S	1	S3-3'	11							X		
8:55				S3-4'	12									
9:00				S4-1'	13									
9:05				S4-2'	14									
9:10				S4-3'	15									
9:15				S4-4'	16									
9:20				SW1	17									
9:25				SW2	18									
9:30				SW3	19									
9:35				SW4	20									

Additional Instructions: BH 21165881

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

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<u>Karime Adams</u>	<u>5/22/23</u>	<u>200</u>	<u>[Signature]</u>	<u>5-22-23</u>	<u>1400</u>	Received on ice: <u>Y/N</u>
<u>[Signature]</u>	<u>5-22-23</u>	<u>1730</u>	<u>Andrew Muzzo</u>	<u>5-22-23</u>	<u>1800</u>	T1 _____ T2 _____ T3 _____
<u>Andrew Muzzo</u>	<u>5-22-23</u>	<u>2400</u>	<u>Cathy Mars</u>	<u>5/23/23</u>	<u>8:15</u>	AVG Temp °C <u>4</u>

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

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

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at this client expense. The report for the analysis of the above samples is applicable only to the 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: 5/24/2023 3:29:32PM

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:	05/23/23 08:15	Work Order ID:	E305132
Phone:	(575) 631-6977	Date Logged In:	05/22/23 16:23	Logged In By:	Caitlin Mars
Email:	tom@pimaoil.com	Due Date:	05/26/23 17:00 (3 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client InstructionComments/Resolution

Project Shugart W Fed 29 CTB 1 has been separated into 2 reports due to sample volume. Workorders are as follows: E305132 & E305133.

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: Shugart W Fed 29 CTB 1

Work Order: E305133

Job Number: 01058-0007

Received: 5/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/26/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 5/26/23



Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Shugart W Fed 29 CTB 1
Workorder: E305133
Date Received: 5/23/2023 8:15:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/23/2023 8:15:00AM, under the Project Name: Shugart W Fed 29 CTB 1.

The analytical test results summarized in this report with the Project Name: Shugart W Fed 29 CTB 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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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	05/26/23 14:49

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
C1 - 1'	E305133-01A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
C1 - 2'	E305133-02A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
C1 - 3'	E305133-03A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
C2 - 1'	E305133-04A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
C2 - 2'	E305133-05A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
C2 - 3'	E305133-06A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
C3 - 1'	E305133-07A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
C3 - 2'	E305133-08A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
C3 - 3'	E305133-09A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
CW1	E305133-10A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
CW2	E305133-11A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
CW3	E305133-12A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
CW4	E305133-13A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
D1 - 1'	E305133-14A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
D1 - 2'	E305133-15A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
D1 - 3'	E305133-16A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
D1 - 4'	E305133-17A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
DW1	E305133-18A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
DW2	E305133-19A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
DW3	E305133-20A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
E1 - 1'	E305133-21A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
E1 - 2'	E305133-22A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
E1 - 3'	E305133-23A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
E1 - 4'	E305133-24A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
EW1	E305133-25A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
EW2	E305133-26A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
EW3	E305133-27A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

C1 - 1'

E305133-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Benzene	ND	0.125	5	05/23/23	05/24/23	
Ethylbenzene	0.774	0.125	5	05/23/23	05/24/23	
Toluene	ND	0.125	5	05/23/23	05/24/23	
o-Xylene	0.823	0.125	5	05/23/23	05/24/23	
p,m-Xylene	1.85	0.250	5	05/23/23	05/24/23	
Total Xylenes	2.67	0.125	5	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	100 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Gasoline Range Organics (C6-C10)	138	100	5	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.8 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2321042	
Diesel Range Organics (C10-C28)	9910	1250	50	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	3900	2500	50	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>						
	127 %	50-200		05/23/23	05/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2321038	
Chloride	22.7	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

C1 - 2'

E305133-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Benzene	ND	0.0500	2	05/23/23	05/24/23	
Ethylbenzene	0.181	0.0500	2	05/23/23	05/24/23	
Toluene	ND	0.0500	2	05/23/23	05/24/23	
o-Xylene	0.191	0.0500	2	05/23/23	05/24/23	
p,m-Xylene	0.337	0.100	2	05/23/23	05/24/23	
Total Xylenes	0.528	0.0500	2	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Gasoline Range Organics (C6-C10)	51.7	40.0	2	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.6 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321042
Diesel Range Organics (C10-C28)	4800	1250	50	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	2860	2500	50	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>						
		98.2 %	50-200	05/23/23	05/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321038
Chloride	ND	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

C1 - 3'

E305133-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Benzene	ND	0.125	5	05/23/23	05/24/23	
Ethylbenzene	1.33	0.125	5	05/23/23	05/24/23	
Toluene	ND	0.125	5	05/23/23	05/24/23	
o-Xylene	1.38	0.125	5	05/23/23	05/24/23	
p,m-Xylene	3.86	0.250	5	05/23/23	05/24/23	
Total Xylenes	5.24	0.125	5	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Gasoline Range Organics (C6-C10)	236	100	5	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.4 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321042
Diesel Range Organics (C10-C28)	5690	1250	50	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	ND	2500	50	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>						
	136 %	50-200		05/23/23	05/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321038
Chloride	31.8	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

C2 - 1'

E305133-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Benzene	ND	0.125	5	05/23/23	05/24/23	
Ethylbenzene	0.907	0.125	5	05/23/23	05/24/23	
Toluene	ND	0.125	5	05/23/23	05/24/23	
o-Xylene	0.983	0.125	5	05/23/23	05/24/23	
p,m-Xylene	2.00	0.250	5	05/23/23	05/24/23	
Total Xylenes	2.98	0.125	5	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.9 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Gasoline Range Organics (C6-C10)	184	100	5	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.6 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321042
Diesel Range Organics (C10-C28)	11000	1250	50	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	4440	2500	50	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>						
	134 %	50-200		05/23/23	05/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321038
Chloride	22.9	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

C2 - 2'

E305133-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Benzene	ND	0.0500	2	05/23/23	05/24/23	
Ethylbenzene	0.171	0.0500	2	05/23/23	05/24/23	
Toluene	ND	0.0500	2	05/23/23	05/24/23	
o-Xylene	0.182	0.0500	2	05/23/23	05/24/23	
p,m-Xylene	0.330	0.100	2	05/23/23	05/24/23	
Total Xylenes	0.512	0.0500	2	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Gasoline Range Organics (C6-C10)	52.0	40.0	2	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.7 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321042	
Diesel Range Organics (C10-C28)	4790	1250	50	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	ND	2500	50	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>						
		108 %	50-200	05/23/23	05/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2321038	
Chloride	ND	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

C2 - 3'

E305133-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Benzene	ND	0.125	5	05/23/23	05/24/23	
Ethylbenzene	2.27	0.125	5	05/23/23	05/24/23	
Toluene	ND	0.125	5	05/23/23	05/24/23	
o-Xylene	1.88	0.125	5	05/23/23	05/24/23	
p,m-Xylene	5.18	0.250	5	05/23/23	05/24/23	
Total Xylenes	7.06	0.125	5	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Gasoline Range Organics (C6-C10)	291	100	5	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.7 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321042
Diesel Range Organics (C10-C28)	6330	1250	50	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	ND	2500	50	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>						
		146 %	50-200	05/23/23	05/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321038
Chloride	28.7	20.0	1	05/23/23	05/24/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported: 5/26/2023 2:49:17PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

C3 - 1'

E305133-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Benzene	ND	0.0500	2	05/23/23	05/24/23	
Ethylbenzene	0.814	0.0500	2	05/23/23	05/24/23	
Toluene	0.266	0.0500	2	05/23/23	05/24/23	
o-Xylene	0.718	0.0500	2	05/23/23	05/24/23	
p,m-Xylene	1.87	0.100	2	05/23/23	05/24/23	
Total Xylenes	2.58	0.0500	2	05/23/23	05/24/23	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Gasoline Range Organics (C6-C10)	118	40.0	2	05/23/23	05/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.3 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321042	
Diesel Range Organics (C10-C28)	9090	1250	50	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	3570	2500	50	05/23/23	05/24/23	
Surrogate: n-Nonane		112 %	50-200	05/23/23	05/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2321038	
Chloride	22.5	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

C3 - 2'

E305133-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Benzene	ND	0.125	5	05/23/23	05/24/23	
Ethylbenzene	0.397	0.125	5	05/23/23	05/24/23	
Toluene	ND	0.125	5	05/23/23	05/24/23	
o-Xylene	0.244	0.125	5	05/23/23	05/24/23	
p,m-Xylene	0.429	0.250	5	05/23/23	05/24/23	
Total Xylenes	0.673	0.125	5	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.5 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Gasoline Range Organics (C6-C10)	111	100	5	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.1 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321042	
Diesel Range Organics (C10-C28)	4340	500	20	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	2700	1000	20	05/23/23	05/25/23	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		05/23/23	05/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2321038	
Chloride	ND	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

C3 - 3'

E305133-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Benzene	ND	0.125	5	05/23/23	05/24/23	
Ethylbenzene	2.42	0.125	5	05/23/23	05/24/23	
Toluene	ND	0.125	5	05/23/23	05/24/23	
o-Xylene	1.89	0.125	5	05/23/23	05/24/23	
p,m-Xylene	5.34	0.250	5	05/23/23	05/24/23	
Total Xylenes	7.23	0.125	5	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Gasoline Range Organics (C6-C10)	288	100	5	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		100 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321042
Diesel Range Organics (C10-C28)	8230	1250	50	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	2760	2500	50	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>						
		152 %	50-200	05/23/23	05/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321038
Chloride	33.7	20.0	1	05/23/23	05/24/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported: 5/26/2023 2:49:17PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CW1

E305133-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Benzene	ND	0.0250	1	05/23/23	05/24/23	
Ethylbenzene	ND	0.0250	1	05/23/23	05/24/23	
Toluene	ND	0.0250	1	05/23/23	05/24/23	
o-Xylene	ND	0.0250	1	05/23/23	05/24/23	
p,m-Xylene	ND	0.0500	1	05/23/23	05/24/23	
Total Xylenes	ND	0.0250	1	05/23/23	05/24/23	
Surrogate: 4-Bromochlorobenzene-PID	95.9 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/23	05/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.8 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321042	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/23	05/24/23	
Surrogate: n-Nonane	104 %	50-200		05/23/23	05/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2321038	
Chloride	ND	20.0	1	05/23/23	05/24/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported: 5/26/2023 2:49:17PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CW2

E305133-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Benzene	ND	0.0250	1	05/23/23	05/24/23	
Ethylbenzene	ND	0.0250	1	05/23/23	05/24/23	
Toluene	ND	0.0250	1	05/23/23	05/24/23	
o-Xylene	ND	0.0250	1	05/23/23	05/24/23	
p,m-Xylene	ND	0.0500	1	05/23/23	05/24/23	
Total Xylenes	ND	0.0250	1	05/23/23	05/24/23	
Surrogate: 4-Bromochlorobenzene-PID	97.0 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/23	05/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.0 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321042	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/23	05/24/23	
Surrogate: n-Nonane	102 %	50-200		05/23/23	05/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2321038	
Chloride	ND	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

CW3

E305133-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Benzene	ND	0.0250	1	05/23/23	05/24/23	
Ethylbenzene	ND	0.0250	1	05/23/23	05/24/23	
Toluene	ND	0.0250	1	05/23/23	05/24/23	
o-Xylene	ND	0.0250	1	05/23/23	05/24/23	
p,m-Xylene	ND	0.0500	1	05/23/23	05/24/23	
Total Xylenes	ND	0.0250	1	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.0 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.1 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321042	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>	106 %	50-200		05/23/23	05/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2321038	
Chloride	ND	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

CW4

E305133-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Benzene	ND	0.0250	1	05/23/23	05/24/23	
Ethylbenzene	ND	0.0250	1	05/23/23	05/24/23	
Toluene	ND	0.0250	1	05/23/23	05/24/23	
o-Xylene	ND	0.0250	1	05/23/23	05/24/23	
p,m-Xylene	ND	0.0500	1	05/23/23	05/24/23	
Total Xylenes	ND	0.0250	1	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.7 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.3 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321042
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		05/23/23	05/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321038
Chloride	ND	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

D1 - 1'

E305133-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Benzene	ND	0.125	5	05/23/23	05/24/23	
Ethylbenzene	2.15	0.125	5	05/23/23	05/24/23	
Toluene	0.709	0.125	5	05/23/23	05/24/23	
o-Xylene	1.95	0.125	5	05/23/23	05/24/23	
p,m-Xylene	5.35	0.250	5	05/23/23	05/24/23	
Total Xylenes	7.30	0.125	5	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	104 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Gasoline Range Organics (C6-C10)	278	100	5	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.0 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2321042	
Diesel Range Organics (C10-C28)	9610	1250	50	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	3530	2500	50	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>						
	120 %	50-200		05/23/23	05/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2321038	
Chloride	22.7	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

D1 - 2'

E305133-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Benzene	ND	0.125	5	05/23/23	05/24/23	
Ethylbenzene	0.318	0.125	5	05/23/23	05/24/23	
Toluene	0.222	0.125	5	05/23/23	05/24/23	
o-Xylene	0.692	0.125	5	05/23/23	05/24/23	
p,m-Xylene	0.404	0.250	5	05/23/23	05/24/23	
Total Xylenes	1.10	0.125	5	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.3 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Gasoline Range Organics (C6-C10)	ND	100	5	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.9 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2321042	
Diesel Range Organics (C10-C28)	5190	1250	50	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	ND	2500	50	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		05/23/23	05/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2321038	
Chloride	ND	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

D1 - 3'

E305133-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Benzene	ND	0.0500	2	05/23/23	05/24/23	
Ethylbenzene	1.86	0.0500	2	05/23/23	05/24/23	
Toluene	0.0502	0.0500	2	05/23/23	05/24/23	
o-Xylene	1.50	0.0500	2	05/23/23	05/24/23	
p,m-Xylene	4.08	0.100	2	05/23/23	05/24/23	
Total Xylenes	5.58	0.0500	2	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.1 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Gasoline Range Organics (C6-C10)	206	40.0	2	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321042	
Diesel Range Organics (C10-C28)	7830	1250	50	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	ND	2500	50	05/23/23	05/25/23	
<i>Surrogate: n-Nonane</i>						
	145 %	50-200		05/23/23	05/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2321038	
Chloride	46.7	20.0	1	05/23/23	05/24/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Shugart W Fed 29 CTB 1 Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 5/26/2023 2:49:17PM
-----------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------	----------------------------------

D1 - 4'

E305133-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Benzene	ND	0.0250	1	05/23/23	05/24/23	
Ethylbenzene	1.32	0.0250	1	05/23/23	05/24/23	
Toluene	0.0274	0.0250	1	05/23/23	05/24/23	
o-Xylene	1.29	0.0250	1	05/23/23	05/24/23	
p,m-Xylene	3.08	0.0500	1	05/23/23	05/24/23	
Total Xylenes	4.37	0.0250	1	05/23/23	05/24/23	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Gasoline Range Organics (C6-C10)	157	20.0	1	05/23/23	05/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		112 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321042	
Diesel Range Organics (C10-C28)	7050	1250	50	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	ND	2500	50	05/23/23	05/25/23	
Surrogate: n-Nonane		143 %	50-200	05/23/23	05/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2321038	
Chloride	36.7	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

DW1

E305133-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Benzene	ND	0.0250	1	05/23/23	05/24/23	
Ethylbenzene	ND	0.0250	1	05/23/23	05/24/23	
Toluene	ND	0.0250	1	05/23/23	05/24/23	
o-Xylene	ND	0.0250	1	05/23/23	05/24/23	
p,m-Xylene	ND	0.0500	1	05/23/23	05/24/23	
Total Xylenes	ND	0.0250	1	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.2 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Gasoline Range Organics (C6-C10)	20.1	20.0	1	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.1 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321042
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/23	05/25/23	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		05/23/23	05/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321038
Chloride	ND	20.0	1	05/23/23	05/25/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

DW2

E305133-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Benzene	ND	0.0250	1	05/23/23	05/24/23	
Ethylbenzene	ND	0.0250	1	05/23/23	05/24/23	
Toluene	ND	0.0250	1	05/23/23	05/24/23	
o-Xylene	ND	0.0250	1	05/23/23	05/24/23	
p,m-Xylene	ND	0.0500	1	05/23/23	05/24/23	
Total Xylenes	ND	0.0250	1	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.0 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.6 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321042	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/23	05/25/23	
<i>Surrogate: n-Nonane</i>	109 %	50-200		05/23/23	05/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2321038	
Chloride	ND	20.0	1	05/23/23	05/25/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported: 5/26/2023 2:49:17PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

DW3

E305133-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Benzene	ND	0.0250	1	05/23/23	05/24/23	
Ethylbenzene	ND	0.0250	1	05/23/23	05/24/23	
Toluene	ND	0.0250	1	05/23/23	05/24/23	
o-Xylene	ND	0.0250	1	05/23/23	05/24/23	
p,m-Xylene	ND	0.0500	1	05/23/23	05/24/23	
Total Xylenes	ND	0.0250	1	05/23/23	05/24/23	
Surrogate: 4-Bromochlorobenzene-PID	99.2 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/23	05/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.2 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321042	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/23	05/25/23	
Surrogate: n-Nonane	106 %	50-200		05/23/23	05/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2321038	
Chloride	ND	20.0	1	05/23/23	05/25/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

E1 - 1'

E305133-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Benzene	ND	0.0500	2	05/23/23	05/25/23	
Ethylbenzene	0.301	0.0500	2	05/23/23	05/25/23	
Toluene	ND	0.0500	2	05/23/23	05/25/23	
o-Xylene	0.795	0.0500	2	05/23/23	05/25/23	
p,m-Xylene	0.961	0.100	2	05/23/23	05/25/23	
Total Xylenes	1.76	0.0500	2	05/23/23	05/25/23	
Surrogate: Bromofluorobenzene	117 %	70-130		05/23/23	05/25/23	
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130		05/23/23	05/25/23	
Surrogate: Toluene-d8	111 %	70-130		05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Gasoline Range Organics (C6-C10)	208	40.0	2	05/23/23	05/25/23	
Surrogate: Bromofluorobenzene	117 %	70-130		05/23/23	05/25/23	
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130		05/23/23	05/25/23	
Surrogate: Toluene-d8	111 %	70-130		05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321041
Diesel Range Organics (C10-C28)	9370	1250	50	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	3770	2500	50	05/23/23	05/25/23	
Surrogate: n-Nonane	128 %	50-200		05/23/23	05/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321037
Chloride	28.5	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

E1 - 2'

E305133-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Benzene	ND	0.0500	2	05/23/23	05/25/23	
Ethylbenzene	ND	0.0500	2	05/23/23	05/25/23	
Toluene	ND	0.0500	2	05/23/23	05/25/23	
o-Xylene	0.0950	0.0500	2	05/23/23	05/25/23	
p,m-Xylene	ND	0.100	2	05/23/23	05/25/23	
Total Xylenes	0.0950	0.0500	2	05/23/23	05/25/23	
Surrogate: Bromofluorobenzene		111 %	70-130	05/23/23	05/25/23	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	05/23/23	05/25/23	
Surrogate: Toluene-d8		105 %	70-130	05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Gasoline Range Organics (C6-C10)	84.6	40.0	2	05/23/23	05/25/23	
Surrogate: Bromofluorobenzene		111 %	70-130	05/23/23	05/25/23	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	05/23/23	05/25/23	
Surrogate: Toluene-d8		105 %	70-130	05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321041
Diesel Range Organics (C10-C28)	4240	1250	50	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	ND	2500	50	05/23/23	05/25/23	
Surrogate: n-Nonane		99.4 %	50-200	05/23/23	05/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321037
Chloride	ND	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

E1 - 3'

E305133-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Benzene	ND	0.0500	2	05/23/23	05/25/23	
Ethylbenzene	0.254	0.0500	2	05/23/23	05/25/23	
Toluene	ND	0.0500	2	05/23/23	05/25/23	
o-Xylene	0.619	0.0500	2	05/23/23	05/25/23	
p,m-Xylene	0.758	0.100	2	05/23/23	05/25/23	
Total Xylenes	1.38	0.0500	2	05/23/23	05/25/23	
Surrogate: Bromofluorobenzene		114 %	70-130	05/23/23	05/25/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	05/23/23	05/25/23	
Surrogate: Toluene-d8		109 %	70-130	05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Gasoline Range Organics (C6-C10)	145	40.0	2	05/23/23	05/25/23	
Surrogate: Bromofluorobenzene		114 %	70-130	05/23/23	05/25/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	05/23/23	05/25/23	
Surrogate: Toluene-d8		109 %	70-130	05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321041
Diesel Range Organics (C10-C28)	4150	1250	50	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	ND	2500	50	05/23/23	05/25/23	
Surrogate: n-Nonane		117 %	50-200	05/23/23	05/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321037
Chloride	22.5	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

E1 - 4'

E305133-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Benzene	ND	0.0500	2	05/23/23	05/25/23	
Ethylbenzene	0.718	0.0500	2	05/23/23	05/25/23	
Toluene	0.0920	0.0500	2	05/23/23	05/25/23	
o-Xylene	1.61	0.0500	2	05/23/23	05/25/23	
p,m-Xylene	2.06	0.100	2	05/23/23	05/25/23	
Total Xylenes	3.67	0.0500	2	05/23/23	05/25/23	
Surrogate: Bromofluorobenzene	122 %	70-130		05/23/23	05/25/23	
Surrogate: 1,2-Dichloroethane-d4	99.7 %	70-130		05/23/23	05/25/23	
Surrogate: Toluene-d8	119 %	70-130		05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Gasoline Range Organics (C6-C10)	356	40.0	2	05/23/23	05/25/23	
Surrogate: Bromofluorobenzene	122 %	70-130		05/23/23	05/25/23	
Surrogate: 1,2-Dichloroethane-d4	99.7 %	70-130		05/23/23	05/25/23	
Surrogate: Toluene-d8	119 %	70-130		05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321041
Diesel Range Organics (C10-C28)	6560	1250	50	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	ND	2500	50	05/23/23	05/25/23	
Surrogate: n-Nonane	145 %	50-200		05/23/23	05/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321037
Chloride	45.5	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

EW1

E305133-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Benzene	ND	0.0250	1	05/23/23	05/24/23	
Ethylbenzene	ND	0.0250	1	05/23/23	05/24/23	
Toluene	ND	0.0250	1	05/23/23	05/24/23	
o-Xylene	ND	0.0250	1	05/23/23	05/24/23	
p,m-Xylene	ND	0.0500	1	05/23/23	05/24/23	
Total Xylenes	ND	0.0250	1	05/23/23	05/24/23	
Surrogate: Bromofluorobenzene		106 %	70-130	05/23/23	05/24/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	05/23/23	05/24/23	
Surrogate: Toluene-d8		106 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/23	05/24/23	
Surrogate: Bromofluorobenzene		106 %	70-130	05/23/23	05/24/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	05/23/23	05/24/23	
Surrogate: Toluene-d8		106 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321041
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/23	05/25/23	
Surrogate: n-Nonane		96.3 %	50-200	05/23/23	05/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321037
Chloride	ND	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

EW2

E305133-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Benzene	ND	0.0250	1	05/23/23	05/24/23	
Ethylbenzene	ND	0.0250	1	05/23/23	05/24/23	
Toluene	ND	0.0250	1	05/23/23	05/24/23	
o-Xylene	ND	0.0250	1	05/23/23	05/24/23	
p,m-Xylene	ND	0.0500	1	05/23/23	05/24/23	
Total Xylenes	ND	0.0250	1	05/23/23	05/24/23	
Surrogate: Bromofluorobenzene		107 %	70-130	05/23/23	05/24/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	05/23/23	05/24/23	
Surrogate: Toluene-d8		105 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/23	05/24/23	
Surrogate: Bromofluorobenzene		107 %	70-130	05/23/23	05/24/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	05/23/23	05/24/23	
Surrogate: Toluene-d8		105 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321041
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/23	05/25/23	
Surrogate: n-Nonane		92.9 %	50-200	05/23/23	05/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321037
Chloride	ND	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

EW3

E305133-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Benzene	ND	0.0250	1	05/23/23	05/24/23	
Ethylbenzene	ND	0.0250	1	05/23/23	05/24/23	
Toluene	ND	0.0250	1	05/23/23	05/24/23	
o-Xylene	ND	0.0250	1	05/23/23	05/24/23	
p,m-Xylene	ND	0.0500	1	05/23/23	05/24/23	
Total Xylenes	ND	0.0250	1	05/23/23	05/24/23	
Surrogate: Bromofluorobenzene		107 %	70-130	05/23/23	05/24/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	05/23/23	05/24/23	
Surrogate: Toluene-d8		108 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/23	05/24/23	
Surrogate: Bromofluorobenzene		107 %	70-130	05/23/23	05/24/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	05/23/23	05/24/23	
Surrogate: Toluene-d8		108 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321041
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/23	05/25/23	
Surrogate: n-Nonane		94.0 %	50-200	05/23/23	05/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321037
Chloride	ND	20.0	1	05/23/23	05/24/23	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/26/2023 2:49:17PM

Volatile Organic Compounds by EPA 8260B

Analyst: SL

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

Blank (2321021-BLK1)

Prepared: 05/23/23 Analyzed: 05/23/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

LCS (2321021-BS1)

Prepared: 05/23/23 Analyzed: 05/23/23

Benzene	2.72	0.0250	2.50		109	70-130			
Ethylbenzene	2.70	0.0250	2.50		108	70-130			
Toluene	2.74	0.0250	2.50		110	70-130			
o-Xylene	2.94	0.0250	2.50		117	70-130			
p,m-Xylene	5.77	0.0500	5.00		115	70-130			
Total Xylenes	8.71	0.0250	7.50		116	70-130			
Surrogate: Bromofluorobenzene	0.533		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.513		0.500		103	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

Matrix Spike (2321021-MS1)

Source: E305129-27

Prepared: 05/23/23 Analyzed: 05/23/23

Benzene	2.22	0.0250	2.50	ND	89.0	48-131			
Ethylbenzene	2.19	0.0250	2.50	ND	87.6	45-135			
Toluene	2.22	0.0250	2.50	ND	88.8	48-130			
o-Xylene	2.40	0.0250	2.50	ND	96.0	43-135			
p,m-Xylene	4.70	0.0500	5.00	ND	94.0	43-135			
Total Xylenes	7.10	0.0250	7.50	ND	94.7	43-135			
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

Matrix Spike Dup (2321021-MSD1)

Source: E305129-27

Prepared: 05/23/23 Analyzed: 05/23/23

Benzene	2.50	0.0250	2.50	ND	99.8	48-131	11.5	23	
Ethylbenzene	2.48	0.0250	2.50	ND	99.0	45-135	12.3	27	
Toluene	2.51	0.0250	2.50	ND	100	48-130	12.4	24	
o-Xylene	2.69	0.0250	2.50	ND	108	43-135	11.5	27	
p,m-Xylene	5.34	0.0500	5.00	ND	107	43-135	12.7	27	
Total Xylenes	8.03	0.0250	7.50	ND	107	43-135	12.3	27	
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/26/2023 2:49:17PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2321033-BLK1) Prepared: 05/23/23 Analyzed: 05/24/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.9	70-130			

LCS (2321033-BS1) Prepared: 05/23/23 Analyzed: 05/24/23

Benzene	4.64	0.0250	5.00		92.8	70-130			
Ethylbenzene	4.88	0.0250	5.00		97.7	70-130			
Toluene	4.94	0.0250	5.00		98.8	70-130			
o-Xylene	5.02	0.0250	5.00		100	70-130			
p,m-Xylene	9.94	0.0500	10.0		99.4	70-130			
Total Xylenes	15.0	0.0250	15.0		99.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.90		8.00		98.7	70-130			

Matrix Spike (2321033-MS1) Source: E305133-01 Prepared: 05/23/23 Analyzed: 05/24/23

Benzene	23.2	0.125	25.0	ND	92.7	54-133			
Ethylbenzene	25.4	0.125	25.0	0.774	98.4	61-133			
Toluene	24.9	0.125	25.0	ND	99.8	61-130			
o-Xylene	26.2	0.125	25.0	0.823	102	63-131			
p,m-Xylene	51.6	0.250	50.0	1.85	99.4	63-131			
Total Xylenes	77.8	0.125	75.0	2.67	100	63-131			
Surrogate: 4-Bromochlorobenzene-PID	41.1		40.0		103	70-130			

Matrix Spike Dup (2321033-MSD1) Source: E305133-01 Prepared: 05/23/23 Analyzed: 05/24/23

Benzene	22.4	0.125	25.0	ND	89.7	54-133	3.33	20	
Ethylbenzene	24.7	0.125	25.0	0.774	95.6	61-133	2.84	20	
Toluene	24.1	0.125	25.0	ND	96.4	61-130	3.49	20	
o-Xylene	25.4	0.125	25.0	0.823	98.4	63-131	3.06	20	
p,m-Xylene	50.0	0.250	50.0	1.85	96.3	63-131	3.07	20	
Total Xylenes	75.4	0.125	75.0	2.67	97.0	63-131	3.06	20	
Surrogate: 4-Bromochlorobenzene-PID	39.5		40.0		98.7	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/26/2023 2:49:17PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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

Blank (2321021-BLK1) Prepared: 05/23/23 Analyzed: 05/23/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

LCS (2321021-BS2) Prepared: 05/23/23 Analyzed: 05/23/23

Gasoline Range Organics (C6-C10)	59.6	20.0	50.0		119	70-130			
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			

Matrix Spike (2321021-MS2) Source: E305129-27 Prepared: 05/23/23 Analyzed: 05/23/23

Gasoline Range Organics (C6-C10)	57.8	20.0	50.0	ND	116	70-130			
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.3	70-130			
Surrogate: Toluene-d8	0.538		0.500		108	70-130			

Matrix Spike Dup (2321021-MSD2) Source: E305129-27 Prepared: 05/23/23 Analyzed: 05/23/23

Gasoline Range Organics (C6-C10)	58.8	20.0	50.0	ND	118	70-130	1.74	20	
Surrogate: Bromofluorobenzene	0.547		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/26/2023 2:49:17PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2321033-BLK1) Prepared: 05/23/23 Analyzed: 05/24/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.9	70-130			

LCS (2321033-BS2) Prepared: 05/23/23 Analyzed: 05/24/23

Gasoline Range Organics (C6-C10)	45.5	20.0	50.0		91.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.14		8.00		89.3	70-130			

Matrix Spike (2321033-MS2) Source: E305133-01 Prepared: 05/23/23 Analyzed: 05/24/23

Gasoline Range Organics (C6-C10)	404	100	250	138	106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	38.4		40.0		95.9	70-130			

Matrix Spike Dup (2321033-MSD2) Source: E305133-01 Prepared: 05/23/23 Analyzed: 05/24/23

Gasoline Range Organics (C6-C10)	400	100	250	138	105	70-130	0.990	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	38.5		40.0		96.1	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/26/2023 2:49:17PM

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 (2321041-BLK1)					Prepared: 05/23/23 Analyzed: 05/24/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.5		50.0		89.1	50-200			

LCS (2321041-BS1)					Prepared: 05/23/23 Analyzed: 05/25/23				
Diesel Range Organics (C10-C28)	247	25.0	250		98.6	38-132			
Surrogate: n-Nonane	44.5		50.0		89.0	50-200			

Matrix Spike (2321041-MS1)					Source: E305119-10		Prepared: 05/23/23 Analyzed: 05/25/23		
Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.9	38-132			
Surrogate: n-Nonane	41.6		50.0		83.1	50-200			

Matrix Spike Dup (2321041-MSD1)					Source: E305119-10		Prepared: 05/23/23 Analyzed: 05/25/23		
Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.9	38-132	0.0311	20	
Surrogate: n-Nonane	42.6		50.0		85.2	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/26/2023 2:49:17PM

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 (2321042-BLK1)					Prepared: 05/23/23 Analyzed: 05/25/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.8		50.0		110	50-200			

LCS (2321042-BS1)					Prepared: 05/23/23 Analyzed: 05/25/23				
Diesel Range Organics (C10-C28)	254	25.0	250		102	38-132			
Surrogate: n-Nonane	50.8		50.0		102	50-200			

Matrix Spike (2321042-MS1)					Source: E305133-13		Prepared: 05/23/23 Analyzed: 05/25/23		
Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132			
Surrogate: n-Nonane	50.7		50.0		101	50-200			

Matrix Spike Dup (2321042-MSD1)					Source: E305133-13		Prepared: 05/23/23 Analyzed: 05/25/23		
Diesel Range Organics (C10-C28)	260	25.0	250	ND	104	38-132	0.838	20	
Surrogate: n-Nonane	52.4		50.0		105	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/26/2023 2:49:17PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2321037-BLK1)					Prepared: 05/23/23 Analyzed: 05/24/23				
Chloride	ND	20.0							
LCS (2321037-BS1)					Prepared: 05/23/23 Analyzed: 05/24/23				
Chloride	248	20.0	250		99.3	90-110			
Matrix Spike (2321037-MS1)					Source: E305133-21		Prepared: 05/23/23 Analyzed: 05/24/23		
Chloride	277	20.0	250	28.5	99.5	80-120			
Matrix Spike Dup (2321037-MSD1)					Source: E305133-21		Prepared: 05/23/23 Analyzed: 05/24/23		
Chloride	270	20.0	250	28.5	96.6	80-120	2.70	20	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/26/2023 2:49:17PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2321038-BLK1)					Prepared: 05/23/23 Analyzed: 05/24/23				
Chloride	ND	20.0							
LCS (2321038-BS1)					Prepared: 05/23/23 Analyzed: 05/24/23				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2321038-MS1)					Source: E305133-01		Prepared: 05/23/23 Analyzed: 05/24/23		
Chloride	281	20.0	250	22.7	103	80-120			
Matrix Spike Dup (2321038-MSD1)					Source: E305133-01		Prepared: 05/23/23 Analyzed: 05/24/23		
Chloride	283	20.0	250	22.7	104	80-120	0.634	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:	Shugart W Fed 29 CTB 1	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	05/26/23 14:49

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

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

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



Project Information

Chain of Custody

Page 3 of 5

Client: Pima Environmental Services
 Project: Shugart W Fed. 29CTB1
 Project Manager: Tom Bynum
 Address: 5614 N. Lovington Hwy.
 City, State, Zip Hobbs, NM, 88240
 Phone: 580-748-1613
 Email: tom@pimaoil.com
 Report due by:

Bill To
 Attention: De Von
 Address:
 City, State, Zip
 Phone:
 Email:
 Pima Project # 205-2

Lab Use Only
 Lab WO# E 305183 Job Number 01058-0007
 Analysis and Method
 TAT
 1D 2D 3D Standard
 EPA Program
 CWA SDWA
 RCRA
 State
 NM CO UT AZ TX
 X

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NIM	BGDOC TX	Remarks
9:45	5/12/23	S	1	C1-1'	1							X		
9:50				C1-2'	2									
9:55				C1-3'	3									
10:00				C2-1'	4									
10:05				C2-2'	5									
10:10				C2-3'	6									
10:15				C3-1'	7									
10:20				C3-2'	8									
10:25				C3-3'	9									
10:30				CW1	10									

Additional Instructions:

BH 21165881

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:

A.F

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	
Karine Adams		5/22/23	200	A.F		5-22-23	1400	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N	
Andrew Messo		5-22-23	1730	Andrew Messo		5-22-23	1800	T1 T2 T3	
Andrew Messo		5-22-23	2400	Caterina Mann		5/23/23	8:15	AVG Temp °C <u>4</u>	

Container Type: glass, p. poly/plastic, ag. amber glass, v - VOA
 Analysis: metals, VOC, BTEX, chlorides, BGDOC
 Remarks: none

Project Information

Chain of Custody

Page 4 of 5

Client: Pima Environmental Services		Bill To		Lab Use Only		TAT		EPA Program					
Project: <u>Shogast W. Fed 29 CTB1</u>		Attention: <u>Devon</u>		Lab WO# <u>E305133</u>		Job Number <u>01058-0007</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum		Address:		Analysis and Method								RCRA	
Address: 5614 N. Lovington Hwy.		City, State, Zip		DRO/ORO by 8015		GRO/DRO by 8015		BTEX by 8021		VOC by 8260		Metals 6010	
City, State, Zip Hobbs, NM, 88240		Phone:		Chloride 300.0									
Phone: 580-748-1613		Email:											
Email: tom@pimaoil.com		Pima Project # <u>205-2</u>											
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	BDOC TX	Remarks
10:35	5/12/23	S	1	CW2	11							X		
10:40				CW3	12									
10:45				CW4	13									
10:50				D1-1'	14									
10:55				D1-2'	15									
11:00				D1-3'	16									
11:05				D1-4'	17									
11:10				PW1	18									
11:15				DW2	19									
11:20				DW3	20									

Additional Instructions:

B# 21165881

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: A.F

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

Relinquished by: (Signature) <u>Verine Hoan</u>	Date <u>5-22-23</u>	Time <u>200</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>5-22-23</u>	Time <u>1400</u>	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) <u>[Signature]</u>	Date <u>5-22-23</u>	Time <u>1730</u>	Received by: (Signature) <u>Andrew mcsso</u>	Date <u>5-22-23</u>	Time <u>1800</u>	
Relinquished by: (Signature) <u>Andrew mcsso</u>	Date <u>5-22-23</u>	Time <u>2400</u>	Received by: (Signature) <u>Carla Man</u>	Date <u>5/23/23</u>	Time <u>8:15</u>	

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

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

Note: Samples are discarded 90 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Project Information

Chain of Custody

Page 5 of 5

Client: Pima Environmental Services					Bill To		Lab Use Only				TAT				EPA Program	
Project: Shugar W Fed. 29 CTB1					Attention: DeYon		Lab WO# E305133		Job Number 01058-0007		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum					Address:		Analysis and Method								RCRA	
Address: 5614 N. Lovington Hwy.					City, State, Zip											
City, State, Zip Hobbs, NM, 88240					Phone:											
Phone: 580-748-1613					Email:											
Email: tom@pimaoil.com					Pima Project # 205-2											
Report due by:																
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks		
11:25	5/12/23	S	1	E1-1	21							X				
11:30				E1-2	22											
11:35				E1-3	23											
11:40				E1-4	24											
11:45				EW1	25											
11:50				EW2	26											
11:55				EW3	27											

Additional Instructions:

B# 21165881

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: A.F.

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) Karime Adame	Date 5/22/23	Time 2:00	Received by: (Signature) Andrew Muroso	Date 5.22.23	Time 1400	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4
Relinquished by: (Signature) Andrew Muroso	Date 5.22.23	Time 1730	Received by: (Signature) Cathy Tran	Date 5.22.23	Time 1900	
Relinquished by: (Signature) Andrew Muroso	Date 5.22.23	Time 2400	Received by: (Signature) Cathy Tran	Date 5/23/23	Time 8:15	

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: 5/24/2023 3:27:51PM

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:	05/23/23 08:15	Work Order ID:	E305133
Phone:	(575) 631-6977	Date Logged In:	05/22/23 16:26	Logged In By:	Caitlin Mars
Email:	tom@pimaoil.com	Due Date:	05/26/23 17:00 (3 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Project Shugart W Fed 29 CTB 1 has been separated into 2 reports due to sample volume. Workorders are as follows: E305132 & E305133.

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?	No
Collectors name?	No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Shugart W Fed 29 CTB 1

Work Order: E305133

Job Number: 01058-0007

Received: 5/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/26/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 5/26/23



Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Shugart W Fed 29 CTB 1
Workorder: E305133
Date Received: 5/23/2023 8:15:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/23/2023 8:15:00AM, under the Project Name: Shugart W Fed 29 CTB 1.

The analytical test results summarized in this report with the Project Name: Shugart W Fed 29 CTB 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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Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	05/26/23 14:49

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
C1 - 1'	E305133-01A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
C1 - 2'	E305133-02A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
C1 - 3'	E305133-03A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
C2 - 1'	E305133-04A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
C2 - 2'	E305133-05A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
C2 - 3'	E305133-06A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
C3 - 1'	E305133-07A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
C3 - 2'	E305133-08A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
C3 - 3'	E305133-09A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
CW1	E305133-10A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
CW2	E305133-11A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
CW3	E305133-12A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
CW4	E305133-13A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
D1 - 1'	E305133-14A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
D1 - 2'	E305133-15A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
D1 - 3'	E305133-16A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
D1 - 4'	E305133-17A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
DW1	E305133-18A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
DW2	E305133-19A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
DW3	E305133-20A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
E1 - 1'	E305133-21A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
E1 - 2'	E305133-22A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
E1 - 3'	E305133-23A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
E1 - 4'	E305133-24A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
EW1	E305133-25A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
EW2	E305133-26A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.
EW3	E305133-27A	Soil	05/12/23	05/23/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

C1 - 1'

E305133-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Benzene	ND	0.125	5	05/23/23	05/24/23	
Ethylbenzene	0.774	0.125	5	05/23/23	05/24/23	
Toluene	ND	0.125	5	05/23/23	05/24/23	
o-Xylene	0.823	0.125	5	05/23/23	05/24/23	
p,m-Xylene	1.85	0.250	5	05/23/23	05/24/23	
Total Xylenes	2.67	0.125	5	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	100 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Gasoline Range Organics (C6-C10)	138	100	5	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.8 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2321042	
Diesel Range Organics (C10-C28)	9910	1250	50	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	3900	2500	50	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>						
	127 %	50-200		05/23/23	05/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2321038	
Chloride	22.7	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

C1 - 2'

E305133-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Benzene	ND	0.0500	2	05/23/23	05/24/23	
Ethylbenzene	0.181	0.0500	2	05/23/23	05/24/23	
Toluene	ND	0.0500	2	05/23/23	05/24/23	
o-Xylene	0.191	0.0500	2	05/23/23	05/24/23	
p,m-Xylene	0.337	0.100	2	05/23/23	05/24/23	
Total Xylenes	0.528	0.0500	2	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Gasoline Range Organics (C6-C10)	51.7	40.0	2	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.6 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321042
Diesel Range Organics (C10-C28)	4800	1250	50	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	2860	2500	50	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>						
		98.2 %	50-200	05/23/23	05/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321038
Chloride	ND	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

C1 - 3'

E305133-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Benzene	ND	0.125	5	05/23/23	05/24/23	
Ethylbenzene	1.33	0.125	5	05/23/23	05/24/23	
Toluene	ND	0.125	5	05/23/23	05/24/23	
o-Xylene	1.38	0.125	5	05/23/23	05/24/23	
p,m-Xylene	3.86	0.250	5	05/23/23	05/24/23	
Total Xylenes	5.24	0.125	5	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Gasoline Range Organics (C6-C10)	236	100	5	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.4 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321042
Diesel Range Organics (C10-C28)	5690	1250	50	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	ND	2500	50	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>						
	136 %	50-200		05/23/23	05/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321038
Chloride	31.8	20.0	1	05/23/23	05/24/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported: 5/26/2023 2:49:17PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

C2 - 1'

E305133-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Benzene	ND	0.125	5	05/23/23	05/24/23	
Ethylbenzene	0.907	0.125	5	05/23/23	05/24/23	
Toluene	ND	0.125	5	05/23/23	05/24/23	
o-Xylene	0.983	0.125	5	05/23/23	05/24/23	
p,m-Xylene	2.00	0.250	5	05/23/23	05/24/23	
Total Xylenes	2.98	0.125	5	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.9 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Gasoline Range Organics (C6-C10)	184	100	5	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.6 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321042	
Diesel Range Organics (C10-C28)	11000	1250	50	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	4440	2500	50	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>						
	134 %	50-200		05/23/23	05/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2321038	
Chloride	22.9	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

C2 - 2'

E305133-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Benzene	ND	0.0500	2	05/23/23	05/24/23	
Ethylbenzene	0.171	0.0500	2	05/23/23	05/24/23	
Toluene	ND	0.0500	2	05/23/23	05/24/23	
o-Xylene	0.182	0.0500	2	05/23/23	05/24/23	
p,m-Xylene	0.330	0.100	2	05/23/23	05/24/23	
Total Xylenes	0.512	0.0500	2	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Gasoline Range Organics (C6-C10)	52.0	40.0	2	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.7 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2321042	
Diesel Range Organics (C10-C28)	4790	1250	50	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	ND	2500	50	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>						
		108 %	50-200	05/23/23	05/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2321038	
Chloride	ND	20.0	1	05/23/23	05/24/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported: 5/26/2023 2:49:17PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

C2 - 3'

E305133-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Benzene	ND	0.125	5	05/23/23	05/24/23	
Ethylbenzene	2.27	0.125	5	05/23/23	05/24/23	
Toluene	ND	0.125	5	05/23/23	05/24/23	
o-Xylene	1.88	0.125	5	05/23/23	05/24/23	
p,m-Xylene	5.18	0.250	5	05/23/23	05/24/23	
Total Xylenes	7.06	0.125	5	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Gasoline Range Organics (C6-C10)	291	100	5	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.7 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2321042	
Diesel Range Organics (C10-C28)	6330	1250	50	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	ND	2500	50	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>						
		146 %	50-200	05/23/23	05/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2321038	
Chloride	28.7	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

C3 - 1'

E305133-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Benzene	ND	0.0500	2	05/23/23	05/24/23	
Ethylbenzene	0.814	0.0500	2	05/23/23	05/24/23	
Toluene	0.266	0.0500	2	05/23/23	05/24/23	
o-Xylene	0.718	0.0500	2	05/23/23	05/24/23	
p,m-Xylene	1.87	0.100	2	05/23/23	05/24/23	
Total Xylenes	2.58	0.0500	2	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Gasoline Range Organics (C6-C10)	118	40.0	2	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.3 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321042
Diesel Range Organics (C10-C28)	9090	1250	50	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	3570	2500	50	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>						
		112 %	50-200	05/23/23	05/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321038
Chloride	22.5	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

C3 - 2'

E305133-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Benzene	ND	0.125	5	05/23/23	05/24/23	
Ethylbenzene	0.397	0.125	5	05/23/23	05/24/23	
Toluene	ND	0.125	5	05/23/23	05/24/23	
o-Xylene	0.244	0.125	5	05/23/23	05/24/23	
p,m-Xylene	0.429	0.250	5	05/23/23	05/24/23	
Total Xylenes	0.673	0.125	5	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.5 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Gasoline Range Organics (C6-C10)	111	100	5	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.1 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321042
Diesel Range Organics (C10-C28)	4340	500	20	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	2700	1000	20	05/23/23	05/25/23	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		05/23/23	05/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321038
Chloride	ND	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

C3 - 3'

E305133-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Benzene	ND	0.125	5	05/23/23	05/24/23	
Ethylbenzene	2.42	0.125	5	05/23/23	05/24/23	
Toluene	ND	0.125	5	05/23/23	05/24/23	
o-Xylene	1.89	0.125	5	05/23/23	05/24/23	
p,m-Xylene	5.34	0.250	5	05/23/23	05/24/23	
Total Xylenes	7.23	0.125	5	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Gasoline Range Organics (C6-C10)	288	100	5	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		100 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321042
Diesel Range Organics (C10-C28)	8230	1250	50	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	2760	2500	50	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>						
		152 %	50-200	05/23/23	05/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321038
Chloride	33.7	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

CW1

E305133-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Benzene	ND	0.0250	1	05/23/23	05/24/23	
Ethylbenzene	ND	0.0250	1	05/23/23	05/24/23	
Toluene	ND	0.0250	1	05/23/23	05/24/23	
o-Xylene	ND	0.0250	1	05/23/23	05/24/23	
p,m-Xylene	ND	0.0500	1	05/23/23	05/24/23	
Total Xylenes	ND	0.0250	1	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.9 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.8 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321042
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		05/23/23	05/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321038
Chloride	ND	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

CW2

E305133-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Benzene	ND	0.0250	1	05/23/23	05/24/23	
Ethylbenzene	ND	0.0250	1	05/23/23	05/24/23	
Toluene	ND	0.0250	1	05/23/23	05/24/23	
o-Xylene	ND	0.0250	1	05/23/23	05/24/23	
p,m-Xylene	ND	0.0500	1	05/23/23	05/24/23	
Total Xylenes	ND	0.0250	1	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.0 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321042
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		05/23/23	05/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321038
Chloride	ND	20.0	1	05/23/23	05/24/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported: 5/26/2023 2:49:17PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CW3

E305133-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Benzene	ND	0.0250	1	05/23/23	05/24/23	
Ethylbenzene	ND	0.0250	1	05/23/23	05/24/23	
Toluene	ND	0.0250	1	05/23/23	05/24/23	
o-Xylene	ND	0.0250	1	05/23/23	05/24/23	
p,m-Xylene	ND	0.0500	1	05/23/23	05/24/23	
Total Xylenes	ND	0.0250	1	05/23/23	05/24/23	
Surrogate: 4-Bromochlorobenzene-PID	97.0 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/23	05/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.1 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321042	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/23	05/24/23	
Surrogate: n-Nonane	106 %	50-200		05/23/23	05/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2321038	
Chloride	ND	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

CW4

E305133-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Benzene	ND	0.0250	1	05/23/23	05/24/23	
Ethylbenzene	ND	0.0250	1	05/23/23	05/24/23	
Toluene	ND	0.0250	1	05/23/23	05/24/23	
o-Xylene	ND	0.0250	1	05/23/23	05/24/23	
p,m-Xylene	ND	0.0500	1	05/23/23	05/24/23	
Total Xylenes	ND	0.0250	1	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.7 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.3 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321042
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		05/23/23	05/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321038
Chloride	ND	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

D1 - 1'

E305133-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: SL		Batch: 2321033
Benzene	ND	0.125	5	05/23/23	05/24/23	
Ethylbenzene	2.15	0.125	5	05/23/23	05/24/23	
Toluene	0.709	0.125	5	05/23/23	05/24/23	
o-Xylene	1.95	0.125	5	05/23/23	05/24/23	
p,m-Xylene	5.35	0.250	5	05/23/23	05/24/23	
Total Xylenes	7.30	0.125	5	05/23/23	05/24/23	
Surrogate: 4-Bromochlorobenzene-PID		104 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: SL		Batch: 2321033
Gasoline Range Organics (C6-C10)	278	100	5	05/23/23	05/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.0 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KM		Batch: 2321042
Diesel Range Organics (C10-C28)	9610	1250	50	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	3530	2500	50	05/23/23	05/24/23	
Surrogate: n-Nonane		120 %	50-200	05/23/23	05/24/23	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: BA		Batch: 2321038
Chloride	22.7	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

D1 - 2'

E305133-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Benzene	ND	0.125	5	05/23/23	05/24/23	
Ethylbenzene	0.318	0.125	5	05/23/23	05/24/23	
Toluene	0.222	0.125	5	05/23/23	05/24/23	
o-Xylene	0.692	0.125	5	05/23/23	05/24/23	
p,m-Xylene	0.404	0.250	5	05/23/23	05/24/23	
Total Xylenes	1.10	0.125	5	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.3 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Gasoline Range Organics (C6-C10)	ND	100	5	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.9 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321042
Diesel Range Organics (C10-C28)	5190	1250	50	05/23/23	05/24/23	
Oil Range Organics (C28-C36)	ND	2500	50	05/23/23	05/24/23	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		05/23/23	05/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321038
Chloride	ND	20.0	1	05/23/23	05/24/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported: 5/26/2023 2:49:17PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

D1 - 3'

E305133-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Benzene	ND	0.0500	2	05/23/23	05/24/23	
Ethylbenzene	1.86	0.0500	2	05/23/23	05/24/23	
Toluene	0.0502	0.0500	2	05/23/23	05/24/23	
o-Xylene	1.50	0.0500	2	05/23/23	05/24/23	
p,m-Xylene	4.08	0.100	2	05/23/23	05/24/23	
Total Xylenes	5.58	0.0500	2	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.1 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Gasoline Range Organics (C6-C10)	206	40.0	2	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321042	
Diesel Range Organics (C10-C28)	7830	1250	50	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	ND	2500	50	05/23/23	05/25/23	
<i>Surrogate: n-Nonane</i>						
	145 %	50-200		05/23/23	05/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2321038	
Chloride	46.7	20.0	1	05/23/23	05/24/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported: 5/26/2023 2:49:17PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

D1 - 4'

E305133-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Benzene	ND	0.0250	1	05/23/23	05/24/23	
Ethylbenzene	1.32	0.0250	1	05/23/23	05/24/23	
Toluene	0.0274	0.0250	1	05/23/23	05/24/23	
o-Xylene	1.29	0.0250	1	05/23/23	05/24/23	
p,m-Xylene	3.08	0.0500	1	05/23/23	05/24/23	
Total Xylenes	4.37	0.0250	1	05/23/23	05/24/23	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Gasoline Range Organics (C6-C10)	157	20.0	1	05/23/23	05/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		112 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321042	
Diesel Range Organics (C10-C28)	7050	1250	50	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	ND	2500	50	05/23/23	05/25/23	
Surrogate: n-Nonane		143 %	50-200	05/23/23	05/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2321038	
Chloride	36.7	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

DW1

E305133-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Benzene	ND	0.0250	1	05/23/23	05/24/23	
Ethylbenzene	ND	0.0250	1	05/23/23	05/24/23	
Toluene	ND	0.0250	1	05/23/23	05/24/23	
o-Xylene	ND	0.0250	1	05/23/23	05/24/23	
p,m-Xylene	ND	0.0500	1	05/23/23	05/24/23	
Total Xylenes	ND	0.0250	1	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.2 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321033
Gasoline Range Organics (C6-C10)	20.1	20.0	1	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.1 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321042
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/23	05/25/23	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		05/23/23	05/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321038
Chloride	ND	20.0	1	05/23/23	05/25/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

DW2

E305133-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Benzene	ND	0.0250	1	05/23/23	05/24/23	
Ethylbenzene	ND	0.0250	1	05/23/23	05/24/23	
Toluene	ND	0.0250	1	05/23/23	05/24/23	
o-Xylene	ND	0.0250	1	05/23/23	05/24/23	
p,m-Xylene	ND	0.0500	1	05/23/23	05/24/23	
Total Xylenes	ND	0.0250	1	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.0 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.6 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321042	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/23	05/25/23	
<i>Surrogate: n-Nonane</i>	109 %	50-200		05/23/23	05/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2321038	
Chloride	ND	20.0	1	05/23/23	05/25/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

DW3

E305133-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Benzene	ND	0.0250	1	05/23/23	05/24/23	
Ethylbenzene	ND	0.0250	1	05/23/23	05/24/23	
Toluene	ND	0.0250	1	05/23/23	05/24/23	
o-Xylene	ND	0.0250	1	05/23/23	05/24/23	
p,m-Xylene	ND	0.0500	1	05/23/23	05/24/23	
Total Xylenes	ND	0.0250	1	05/23/23	05/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.2 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2321033	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/23	05/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.2 %	70-130		05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321042	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/23	05/25/23	
<i>Surrogate: n-Nonane</i>	106 %	50-200		05/23/23	05/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2321038	
Chloride	ND	20.0	1	05/23/23	05/25/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Shugart W Fed 29 CTB 1 Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 5/26/2023 2:49:17PM
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E1 - 1'

E305133-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Benzene	ND	0.0500	2	05/23/23	05/25/23	
Ethylbenzene	0.301	0.0500	2	05/23/23	05/25/23	
Toluene	ND	0.0500	2	05/23/23	05/25/23	
o-Xylene	0.795	0.0500	2	05/23/23	05/25/23	
p,m-Xylene	0.961	0.100	2	05/23/23	05/25/23	
Total Xylenes	1.76	0.0500	2	05/23/23	05/25/23	
Surrogate: Bromofluorobenzene	117 %	70-130		05/23/23	05/25/23	
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130		05/23/23	05/25/23	
Surrogate: Toluene-d8	111 %	70-130		05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Gasoline Range Organics (C6-C10)	208	40.0	2	05/23/23	05/25/23	
Surrogate: Bromofluorobenzene	117 %	70-130		05/23/23	05/25/23	
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130		05/23/23	05/25/23	
Surrogate: Toluene-d8	111 %	70-130		05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321041
Diesel Range Organics (C10-C28)	9370	1250	50	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	3770	2500	50	05/23/23	05/25/23	
Surrogate: n-Nonane	128 %	50-200		05/23/23	05/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321037
Chloride	28.5	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

E1 - 2'

E305133-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Benzene	ND	0.0500	2	05/23/23	05/25/23	
Ethylbenzene	ND	0.0500	2	05/23/23	05/25/23	
Toluene	ND	0.0500	2	05/23/23	05/25/23	
o-Xylene	0.0950	0.0500	2	05/23/23	05/25/23	
p,m-Xylene	ND	0.100	2	05/23/23	05/25/23	
Total Xylenes	0.0950	0.0500	2	05/23/23	05/25/23	
Surrogate: Bromofluorobenzene		111 %	70-130	05/23/23	05/25/23	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	05/23/23	05/25/23	
Surrogate: Toluene-d8		105 %	70-130	05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Gasoline Range Organics (C6-C10)	84.6	40.0	2	05/23/23	05/25/23	
Surrogate: Bromofluorobenzene		111 %	70-130	05/23/23	05/25/23	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	05/23/23	05/25/23	
Surrogate: Toluene-d8		105 %	70-130	05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321041
Diesel Range Organics (C10-C28)	4240	1250	50	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	ND	2500	50	05/23/23	05/25/23	
Surrogate: n-Nonane		99.4 %	50-200	05/23/23	05/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321037
Chloride	ND	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

E1 - 3'

E305133-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Benzene	ND	0.0500	2	05/23/23	05/25/23	
Ethylbenzene	0.254	0.0500	2	05/23/23	05/25/23	
Toluene	ND	0.0500	2	05/23/23	05/25/23	
o-Xylene	0.619	0.0500	2	05/23/23	05/25/23	
p,m-Xylene	0.758	0.100	2	05/23/23	05/25/23	
Total Xylenes	1.38	0.0500	2	05/23/23	05/25/23	
Surrogate: Bromofluorobenzene		114 %	70-130	05/23/23	05/25/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	05/23/23	05/25/23	
Surrogate: Toluene-d8		109 %	70-130	05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Gasoline Range Organics (C6-C10)	145	40.0	2	05/23/23	05/25/23	
Surrogate: Bromofluorobenzene		114 %	70-130	05/23/23	05/25/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	05/23/23	05/25/23	
Surrogate: Toluene-d8		109 %	70-130	05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321041
Diesel Range Organics (C10-C28)	4150	1250	50	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	ND	2500	50	05/23/23	05/25/23	
Surrogate: n-Nonane		117 %	50-200	05/23/23	05/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321037
Chloride	22.5	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

E1 - 4'

E305133-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Benzene	ND	0.0500	2	05/23/23	05/25/23	
Ethylbenzene	0.718	0.0500	2	05/23/23	05/25/23	
Toluene	0.0920	0.0500	2	05/23/23	05/25/23	
o-Xylene	1.61	0.0500	2	05/23/23	05/25/23	
p,m-Xylene	2.06	0.100	2	05/23/23	05/25/23	
Total Xylenes	3.67	0.0500	2	05/23/23	05/25/23	
Surrogate: Bromofluorobenzene	122 %	70-130		05/23/23	05/25/23	
Surrogate: 1,2-Dichloroethane-d4	99.7 %	70-130		05/23/23	05/25/23	
Surrogate: Toluene-d8	119 %	70-130		05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Gasoline Range Organics (C6-C10)	356	40.0	2	05/23/23	05/25/23	
Surrogate: Bromofluorobenzene	122 %	70-130		05/23/23	05/25/23	
Surrogate: 1,2-Dichloroethane-d4	99.7 %	70-130		05/23/23	05/25/23	
Surrogate: Toluene-d8	119 %	70-130		05/23/23	05/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321041
Diesel Range Organics (C10-C28)	6560	1250	50	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	ND	2500	50	05/23/23	05/25/23	
Surrogate: n-Nonane	145 %	50-200		05/23/23	05/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321037
Chloride	45.5	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

EW1

E305133-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Benzene	ND	0.0250	1	05/23/23	05/24/23	
Ethylbenzene	ND	0.0250	1	05/23/23	05/24/23	
Toluene	ND	0.0250	1	05/23/23	05/24/23	
o-Xylene	ND	0.0250	1	05/23/23	05/24/23	
p,m-Xylene	ND	0.0500	1	05/23/23	05/24/23	
Total Xylenes	ND	0.0250	1	05/23/23	05/24/23	
Surrogate: Bromofluorobenzene		106 %	70-130	05/23/23	05/24/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	05/23/23	05/24/23	
Surrogate: Toluene-d8		106 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/23	05/24/23	
Surrogate: Bromofluorobenzene		106 %	70-130	05/23/23	05/24/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	05/23/23	05/24/23	
Surrogate: Toluene-d8		106 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321041
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/23	05/25/23	
Surrogate: n-Nonane		96.3 %	50-200	05/23/23	05/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321037
Chloride	ND	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

EW2

E305133-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Benzene	ND	0.0250	1	05/23/23	05/24/23	
Ethylbenzene	ND	0.0250	1	05/23/23	05/24/23	
Toluene	ND	0.0250	1	05/23/23	05/24/23	
o-Xylene	ND	0.0250	1	05/23/23	05/24/23	
p,m-Xylene	ND	0.0500	1	05/23/23	05/24/23	
Total Xylenes	ND	0.0250	1	05/23/23	05/24/23	
Surrogate: Bromofluorobenzene		107 %	70-130	05/23/23	05/24/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	05/23/23	05/24/23	
Surrogate: Toluene-d8		105 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/23	05/24/23	
Surrogate: Bromofluorobenzene		107 %	70-130	05/23/23	05/24/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	05/23/23	05/24/23	
Surrogate: Toluene-d8		105 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321041
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/23	05/25/23	
Surrogate: n-Nonane		92.9 %	50-200	05/23/23	05/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321037
Chloride	ND	20.0	1	05/23/23	05/24/23	



Sample Data

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

Project Name: Shugart W Fed 29 CTB 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/26/2023 2:49:17PM

EW3

E305133-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Benzene	ND	0.0250	1	05/23/23	05/24/23	
Ethylbenzene	ND	0.0250	1	05/23/23	05/24/23	
Toluene	ND	0.0250	1	05/23/23	05/24/23	
o-Xylene	ND	0.0250	1	05/23/23	05/24/23	
p,m-Xylene	ND	0.0500	1	05/23/23	05/24/23	
Total Xylenes	ND	0.0250	1	05/23/23	05/24/23	
Surrogate: Bromofluorobenzene		107 %	70-130	05/23/23	05/24/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	05/23/23	05/24/23	
Surrogate: Toluene-d8		108 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321021
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/23	05/24/23	
Surrogate: Bromofluorobenzene		107 %	70-130	05/23/23	05/24/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	05/23/23	05/24/23	
Surrogate: Toluene-d8		108 %	70-130	05/23/23	05/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321041
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/23	05/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/23	05/25/23	
Surrogate: n-Nonane		94.0 %	50-200	05/23/23	05/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2321037
Chloride	ND	20.0	1	05/23/23	05/24/23	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported: 5/26/2023 2:49:17PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Volatile Organic Compounds by EPA 8260B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2321021-BLK1) Prepared: 05/23/23 Analyzed: 05/23/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

LCS (2321021-BS1) Prepared: 05/23/23 Analyzed: 05/23/23

Benzene	2.72	0.0250	2.50		109	70-130			
Ethylbenzene	2.70	0.0250	2.50		108	70-130			
Toluene	2.74	0.0250	2.50		110	70-130			
o-Xylene	2.94	0.0250	2.50		117	70-130			
p,m-Xylene	5.77	0.0500	5.00		115	70-130			
Total Xylenes	8.71	0.0250	7.50		116	70-130			
Surrogate: Bromofluorobenzene	0.533		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.513		0.500		103	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

Matrix Spike (2321021-MS1) Source: E305129-27 Prepared: 05/23/23 Analyzed: 05/23/23

Benzene	2.22	0.0250	2.50	ND	89.0	48-131			
Ethylbenzene	2.19	0.0250	2.50	ND	87.6	45-135			
Toluene	2.22	0.0250	2.50	ND	88.8	48-130			
o-Xylene	2.40	0.0250	2.50	ND	96.0	43-135			
p,m-Xylene	4.70	0.0500	5.00	ND	94.0	43-135			
Total Xylenes	7.10	0.0250	7.50	ND	94.7	43-135			
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

Matrix Spike Dup (2321021-MSD1) Source: E305129-27 Prepared: 05/23/23 Analyzed: 05/23/23

Benzene	2.50	0.0250	2.50	ND	99.8	48-131	11.5	23	
Ethylbenzene	2.48	0.0250	2.50	ND	99.0	45-135	12.3	27	
Toluene	2.51	0.0250	2.50	ND	100	48-130	12.4	24	
o-Xylene	2.69	0.0250	2.50	ND	108	43-135	11.5	27	
p,m-Xylene	5.34	0.0500	5.00	ND	107	43-135	12.7	27	
Total Xylenes	8.03	0.0250	7.50	ND	107	43-135	12.3	27	
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported: 5/26/2023 2:49:17PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2321033-BLK1) Prepared: 05/23/23 Analyzed: 05/24/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.9	70-130			

LCS (2321033-BS1) Prepared: 05/23/23 Analyzed: 05/24/23

Benzene	4.64	0.0250	5.00		92.8	70-130			
Ethylbenzene	4.88	0.0250	5.00		97.7	70-130			
Toluene	4.94	0.0250	5.00		98.8	70-130			
o-Xylene	5.02	0.0250	5.00		100	70-130			
p,m-Xylene	9.94	0.0500	10.0		99.4	70-130			
Total Xylenes	15.0	0.0250	15.0		99.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.90		8.00		98.7	70-130			

Matrix Spike (2321033-MS1) Source: E305133-01 Prepared: 05/23/23 Analyzed: 05/24/23

Benzene	23.2	0.125	25.0	ND	92.7	54-133			
Ethylbenzene	25.4	0.125	25.0	0.774	98.4	61-133			
Toluene	24.9	0.125	25.0	ND	99.8	61-130			
o-Xylene	26.2	0.125	25.0	0.823	102	63-131			
p,m-Xylene	51.6	0.250	50.0	1.85	99.4	63-131			
Total Xylenes	77.8	0.125	75.0	2.67	100	63-131			
Surrogate: 4-Bromochlorobenzene-PID	41.1		40.0		103	70-130			

Matrix Spike Dup (2321033-MSD1) Source: E305133-01 Prepared: 05/23/23 Analyzed: 05/24/23

Benzene	22.4	0.125	25.0	ND	89.7	54-133	3.33	20	
Ethylbenzene	24.7	0.125	25.0	0.774	95.6	61-133	2.84	20	
Toluene	24.1	0.125	25.0	ND	96.4	61-130	3.49	20	
o-Xylene	25.4	0.125	25.0	0.823	98.4	63-131	3.06	20	
p,m-Xylene	50.0	0.250	50.0	1.85	96.3	63-131	3.07	20	
Total Xylenes	75.4	0.125	75.0	2.67	97.0	63-131	3.06	20	
Surrogate: 4-Bromochlorobenzene-PID	39.5		40.0		98.7	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/26/2023 2:49:17PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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

Blank (2321021-BLK1) Prepared: 05/23/23 Analyzed: 05/23/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

LCS (2321021-BS2) Prepared: 05/23/23 Analyzed: 05/23/23

Gasoline Range Organics (C6-C10)	59.6	20.0	50.0		119	70-130			
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			

Matrix Spike (2321021-MS2) Source: E305129-27 Prepared: 05/23/23 Analyzed: 05/23/23

Gasoline Range Organics (C6-C10)	57.8	20.0	50.0	ND	116	70-130			
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.3	70-130			
Surrogate: Toluene-d8	0.538		0.500		108	70-130			

Matrix Spike Dup (2321021-MSD2) Source: E305129-27 Prepared: 05/23/23 Analyzed: 05/23/23

Gasoline Range Organics (C6-C10)	58.8	20.0	50.0	ND	118	70-130	1.74	20	
Surrogate: Bromofluorobenzene	0.547		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/26/2023 2:49:17PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2321033-BLK1) Prepared: 05/23/23 Analyzed: 05/24/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.9	70-130			

LCS (2321033-BS2) Prepared: 05/23/23 Analyzed: 05/24/23

Gasoline Range Organics (C6-C10)	45.5	20.0	50.0		91.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.14		8.00		89.3	70-130			

Matrix Spike (2321033-MS2) Source: E305133-01 Prepared: 05/23/23 Analyzed: 05/24/23

Gasoline Range Organics (C6-C10)	404	100	250	138	106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	38.4		40.0		95.9	70-130			

Matrix Spike Dup (2321033-MSD2) Source: E305133-01 Prepared: 05/23/23 Analyzed: 05/24/23

Gasoline Range Organics (C6-C10)	400	100	250	138	105	70-130	0.990	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	38.5		40.0		96.1	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/26/2023 2:49:17PM

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 (2321041-BLK1)					Prepared: 05/23/23 Analyzed: 05/24/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.5		50.0		89.1	50-200			

LCS (2321041-BS1)					Prepared: 05/23/23 Analyzed: 05/25/23				
Diesel Range Organics (C10-C28)	247	25.0	250		98.6	38-132			
Surrogate: n-Nonane	44.5		50.0		89.0	50-200			

Matrix Spike (2321041-MS1)					Source: E305119-10		Prepared: 05/23/23 Analyzed: 05/25/23		
Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.9	38-132			
Surrogate: n-Nonane	41.6		50.0		83.1	50-200			

Matrix Spike Dup (2321041-MSD1)					Source: E305119-10		Prepared: 05/23/23 Analyzed: 05/25/23		
Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.9	38-132	0.0311	20	
Surrogate: n-Nonane	42.6		50.0		85.2	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/26/2023 2:49:17PM

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 (2321042-BLK1)					Prepared: 05/23/23 Analyzed: 05/25/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.8		50.0		110	50-200			

LCS (2321042-BS1)					Prepared: 05/23/23 Analyzed: 05/25/23				
Diesel Range Organics (C10-C28)	254	25.0	250		102	38-132			
Surrogate: n-Nonane	50.8		50.0		102	50-200			

Matrix Spike (2321042-MS1)					Source: E305133-13		Prepared: 05/23/23 Analyzed: 05/25/23		
Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132			
Surrogate: n-Nonane	50.7		50.0		101	50-200			

Matrix Spike Dup (2321042-MSD1)					Source: E305133-13		Prepared: 05/23/23 Analyzed: 05/25/23		
Diesel Range Organics (C10-C28)	260	25.0	250	ND	104	38-132	0.838	20	
Surrogate: n-Nonane	52.4		50.0		105	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/26/2023 2:49:17PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2321037-BLK1)					Prepared: 05/23/23 Analyzed: 05/24/23				
Chloride	ND	20.0							
LCS (2321037-BS1)					Prepared: 05/23/23 Analyzed: 05/24/23				
Chloride	248	20.0	250		99.3	90-110			
Matrix Spike (2321037-MS1)					Source: E305133-21		Prepared: 05/23/23 Analyzed: 05/24/23		
Chloride	277	20.0	250	28.5	99.5	80-120			
Matrix Spike Dup (2321037-MSD1)					Source: E305133-21		Prepared: 05/23/23 Analyzed: 05/24/23		
Chloride	270	20.0	250	28.5	96.6	80-120	2.70	20	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W Fed 29 CTB 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/26/2023 2:49:17PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2321038-BLK1)					Prepared: 05/23/23 Analyzed: 05/24/23				
Chloride	ND	20.0							
LCS (2321038-BS1)					Prepared: 05/23/23 Analyzed: 05/24/23				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2321038-MS1)					Source: E305133-01		Prepared: 05/23/23 Analyzed: 05/24/23		
Chloride	281	20.0	250	22.7	103	80-120			
Matrix Spike Dup (2321038-MSD1)					Source: E305133-01		Prepared: 05/23/23 Analyzed: 05/24/23		
Chloride	283	20.0	250	22.7	104	80-120	0.634	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:	Shugart W Fed 29 CTB 1	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	05/26/23 14:49

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

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

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



Chain of Custody

Client: Pima Environmental Services						Lab Use Only								TAT				EPA Program					
Project: Shogart W Fed. TRCTB1						Attention: DeVon		Lab WO# E305183		Job Number 01058-0007		1D	2D	3D	Standard	CWA	SDWA						
Project Manager: Tom Bynum						Address:		Analysis and Method												RCRA			
Address: 5614 N. Lovington Hwy.						City, State, Zip										State							
City, State, Zip Hobbs, NM, 88240						Phone:		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM	BGDOC TX	NM	CO	UT	AZ	TX	
Phone: 580-748-1613						Email:										*							
Email: tom@pimaoil.com						Pima Project # 205-2										Remarks							
Report due by:																							
Time Sampled		Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																	
9:45		5/12/23	S	1	C1-1'	1																	
9:50					C1-2'	2																	
9:55					C1-3'	3																	
10:00					C2-1'	4																	
10:05					C2-2'	5																	
10:10					C2-3'	6																	
10:15					C3-1'	7																	
10:20					C3-2'	8																	
10:25					C3-3'	9																	
10:30					Cw1	10																	

B# 21165881

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: A.E.

A. F.

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) <i>Narlene Adams</i>	Date 5/22/23	Time 200
Relinquished by: (Signature) <i>[Signature]</i>	Date 5-22-23	Time 1730
Relinquished by: (Signature) <i>Andrew Messo</i>	Date 5-22-23	Time 2400

Received by: (Signature)	Date	Time
	5-22-23	1400
Received by: (Signature)	Date	Time
Andrew Milazzo	5-22-23	1400
Received by: (Signature)	Date	Time
Cathy Mann	5/23/23	8:15

Lab Use Only

Received on ice: Y / N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

Project Information

Chain of Custody

Page 4 of 5

Client: Pima Environmental Services		Bill To		Lab Use Only		TAT		EPA Program					
Project: <u>Shogast W. Fed 29 CTB1</u>		Attention: <u>Devon</u>		Lab WO# <u>E305133</u>		Job Number <u>01058-0007</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum		Address:		Analysis and Method									
Address: 5614 N. Lovington Hwy.		City, State, Zip		DRO/ORO by 8015		GRO/DRO by 8015		BTEX by 8021		VOC by 8260		Metals 6010	
City, State, Zip Hobbs, NM, 88240		Phone:		Chloride 300.0									
Phone: 580-748-1613		Email:											
Email: tom@pimaoil.com		Pima Project # <u>205-2</u>											
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	BDOC TX	Remarks
10:35	5/12/23	S	1	CW2	11							X		
10:40				CW3	12									
10:45				CW4	13									
10:50				D1-1'	14									
10:55				D1-2'	15									
11:00				D1-3'	16									
11:05				D1-4'	17									
11:10				PW1	18									
11:15				DW2	19									
11:20				DW3	20									

Additional Instructions:

B# 21165881

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: A.F

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

Relinquished by: (Signature) <u>Verine Hoam</u>	Date <u>5-22-23</u>	Time <u>200</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>5-22-23</u>	Time <u>1400</u>	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) <u>[Signature]</u>	Date <u>5-22-23</u>	Time <u>1730</u>	Received by: (Signature) <u>Andrew mcsso</u>	Date <u>5-22-23</u>	Time <u>1800</u>	
Relinquished by: (Signature) <u>Andrew mcsso</u>	Date <u>5-22-23</u>	Time <u>2400</u>	Received by: (Signature) <u>Carla Mann</u>	Date <u>5/23/23</u>	Time <u>8:15</u>	

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

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

Note: Samples are discarded 90 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Project Information

Chain of Custody

Page 5 of 5

Client: Pima Environmental Services					Bill To		Lab Use Only		TAT				EPA Program			
Project: <u>Shugart W Fed. 29 CTB1</u>					Attention: <u>DeYon</u>		Lab WO# <u>E305133</u>		Job Number <u>01058-0007</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum					Address:											
Address: 5614 N. Lovington Hwy.					City, State, Zip										RCRA	
City, State, Zip: Hobbs, NM, 88240					Phone:											
Phone: 580-748-1613					Email:											
Email: tom@pimaoil.com					Pima Project # <u>205-2</u>											
Report due by:																

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
11:25	5/12/23	S	1	E1-1'	21							X		
11:30				E1-2'	22									
11:35				E1-3'	23									
11:40				E1-4'	24									
11:45				EW1	25									
11:50				EW2	26									
11:55				EW3	27									

Additional Instructions:

B# 21165881

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: A.F

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

Relinquished by: (Signature) <u>Karime Adame</u>	Date <u>5/22/23</u>	Time <u>2:00</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>5.22.23</u>	Time <u>1400</u>	Lab Use Only Received on ice: <u>(Y) N</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>5.22.23</u>	Time <u>1730</u>	Received by: (Signature) <u>Andrew Mueso</u>	Date <u>5.22.23</u>	Time <u>1900</u>	T1 _____ T2 _____ T3 _____
Relinquished by: (Signature) <u>Andrew Mueso</u>	Date <u>5.22.23</u>	Time <u>2400</u>	Received by: (Signature) <u>Cathy Tran</u>	Date <u>5/23/23</u>	Time <u>8:15</u>	AVG Temp °C <u>4</u>

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

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

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

Envirotech Analytical Laboratory

Printed: 5/24/2023 3:27:51PM

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:	05/23/23 08:15	Work Order ID:	E305133
Phone:	(575) 631-6977	Date Logged In:	05/22/23 16:26	Logged In By:	Caitlin Mars
Email:	tom@pimaoil.com	Due Date:	05/26/23 17:00 (3 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Project Shugart W Fed 29 CTB 1 has been separated into 2 reports due to sample volume. Workorders are as follows: E305132 & E305133.

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?	No
Collectors name?	No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

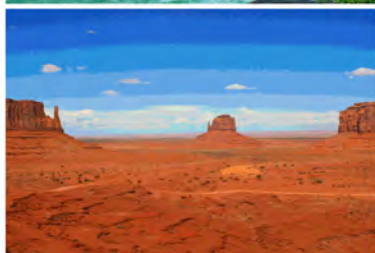
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: West Shugart 29 Fed. #001

Work Order: E306002

Job Number: 01058-0007

Received: 6/1/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/7/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 6/7/23

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: West Shugart 29 Fed. #001
Workorder: E306002
Date Received: 6/1/2023 8:45:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/1/2023 8:45:00AM, under the Project Name: West Shugart 29 Fed. #001.

The analytical test results summarized in this report with the Project Name: West Shugart 29 Fed. #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

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Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	West Shugart 29 Fed. #001	Reported: 06/07/23 15:22
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - 6'	E306002-01A	Soil	05/26/23	06/01/23	Glass Jar, 2 oz.
S1 - 7'	E306002-02A	Soil	05/26/23	06/01/23	Glass Jar, 2 oz.
S2 - 7'	E306002-03A	Soil	05/26/23	06/01/23	Glass Jar, 2 oz.
S2 - 8'	E306002-04A	Soil	05/26/23	06/01/23	Glass Jar, 2 oz.
S3 - 6'	E306002-05A	Soil	05/26/23	06/01/23	Glass Jar, 2 oz.
S3 - 8'	E306002-06A	Soil	05/26/23	06/01/23	Glass Jar, 2 oz.
S4 - 6'	E306002-07A	Soil	05/26/23	06/01/23	Glass Jar, 2 oz.
S4 - 7'	E306002-08A	Soil	05/26/23	06/01/23	Glass Jar, 2 oz.

Sample Data

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

Project Name: West Shugart 29 Fed. #001
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/7/2023 3:22:28PM

S1 - 6'

E306002-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Benzene	ND	0.0250	1	06/01/23	06/02/23	
Ethylbenzene	ND	0.0250	1	06/01/23	06/02/23	
Toluene	ND	0.0250	1	06/01/23	06/02/23	
o-Xylene	ND	0.0250	1	06/01/23	06/02/23	
p,m-Xylene	ND	0.0500	1	06/01/23	06/02/23	
Total Xylenes	ND	0.0250	1	06/01/23	06/02/23	
Surrogate: 4-Bromochlorobenzene-PID	92.9 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/01/23	06/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.4 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322051
Diesel Range Organics (C10-C28)	ND	50.0	2	06/02/23	06/03/23	
Oil Range Organics (C28-C36)	ND	100	2	06/02/23	06/03/23	
Surrogate: n-Nonane	100 %	50-200		06/02/23	06/03/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2323005
Chloride	ND	20.0	1	06/05/23	06/05/23	



Sample Data

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

Project Name: West Shugart 29 Fed. #001
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/7/2023 3:22:28PM

S1 - 7'

E306002-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Benzene	ND	0.0250	1	06/01/23	06/02/23	
Ethylbenzene	ND	0.0250	1	06/01/23	06/02/23	
Toluene	ND	0.0250	1	06/01/23	06/02/23	
o-Xylene	ND	0.0250	1	06/01/23	06/02/23	
p,m-Xylene	ND	0.0500	1	06/01/23	06/02/23	
Total Xylenes	ND	0.0250	1	06/01/23	06/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.7 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/01/23	06/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.7 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322051
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/03/23	
<i>Surrogate: n-Nonane</i>						
	99.9 %	50-200		06/02/23	06/03/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2323005
Chloride	ND	20.0	1	06/05/23	06/05/23	



Sample Data

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

Project Name: West Shugart 29 Fed. #001
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/7/2023 3:22:28PM

S2 - 7'

E306002-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Benzene	ND	0.0250	1	06/01/23	06/02/23	
Ethylbenzene	ND	0.0250	1	06/01/23	06/02/23	
Toluene	ND	0.0250	1	06/01/23	06/02/23	
o-Xylene	ND	0.0250	1	06/01/23	06/02/23	
p,m-Xylene	ND	0.0500	1	06/01/23	06/02/23	
Total Xylenes	ND	0.0250	1	06/01/23	06/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.9 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/01/23	06/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.7 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322051
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/06/23	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		06/02/23	06/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2323005
Chloride	ND	20.0	1	06/05/23	06/05/23	



Sample Data

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

Project Name: West Shugart 29 Fed. #001
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/7/2023 3:22:28PM

S2 - 8'

E306002-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Benzene	ND	0.0250	1	06/01/23	06/02/23	
Ethylbenzene	ND	0.0250	1	06/01/23	06/02/23	
Toluene	ND	0.0250	1	06/01/23	06/02/23	
o-Xylene	ND	0.0250	1	06/01/23	06/02/23	
p,m-Xylene	ND	0.0500	1	06/01/23	06/02/23	
Total Xylenes	ND	0.0250	1	06/01/23	06/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.0 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/01/23	06/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.2 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322051
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/03/23	
<i>Surrogate: n-Nonane</i>						
	97.8 %	50-200		06/02/23	06/03/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2323005
Chloride	ND	20.0	1	06/05/23	06/05/23	



Sample Data

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

Project Name: West Shugart 29 Fed. #001
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/7/2023 3:22:28PM

S3 - 6'

E306002-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Benzene	ND	0.0250	1	06/01/23	06/02/23	
Ethylbenzene	ND	0.0250	1	06/01/23	06/02/23	
Toluene	ND	0.0250	1	06/01/23	06/02/23	
o-Xylene	ND	0.0250	1	06/01/23	06/02/23	
p,m-Xylene	ND	0.0500	1	06/01/23	06/02/23	
Total Xylenes	ND	0.0250	1	06/01/23	06/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/01/23	06/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.1 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322051
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/03/23	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		06/02/23	06/03/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2323005
Chloride	ND	20.0	1	06/05/23	06/05/23	



Sample Data

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

Project Name: West Shugart 29 Fed. #001
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/7/2023 3:22:28PM

S3 - 8'

E306002-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Benzene	ND	0.0250	1	06/01/23	06/02/23	
Ethylbenzene	ND	0.0250	1	06/01/23	06/02/23	
Toluene	ND	0.0250	1	06/01/23	06/02/23	
o-Xylene	ND	0.0250	1	06/01/23	06/02/23	
p,m-Xylene	ND	0.0500	1	06/01/23	06/02/23	
Total Xylenes	ND	0.0250	1	06/01/23	06/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.8 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/01/23	06/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.4 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322051
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/03/23	
<i>Surrogate: n-Nonane</i>						
	98.6 %	50-200		06/02/23	06/03/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2323005
Chloride	ND	20.0	1	06/05/23	06/05/23	



Sample Data

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

Project Name: West Shugart 29 Fed. #001
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/7/2023 3:22:28PM

S4 - 6'

E306002-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Benzene	ND	0.0250	1	06/01/23	06/02/23	
Ethylbenzene	ND	0.0250	1	06/01/23	06/02/23	
Toluene	ND	0.0250	1	06/01/23	06/02/23	
o-Xylene	ND	0.0250	1	06/01/23	06/02/23	
p,m-Xylene	ND	0.0500	1	06/01/23	06/02/23	
Total Xylenes	ND	0.0250	1	06/01/23	06/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/01/23	06/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.9 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322051
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/06/23	
<i>Surrogate: n-Nonane</i>						
	118 %	50-200		06/02/23	06/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2323005
Chloride	ND	20.0	1	06/05/23	06/05/23	



Sample Data

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

Project Name: West Shugart 29 Fed. #001
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/7/2023 3:22:28PM

S4 - 7'

E306002-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Benzene	ND	0.0250	1	06/01/23	06/02/23	
Ethylbenzene	ND	0.0250	1	06/01/23	06/02/23	
Toluene	ND	0.0250	1	06/01/23	06/02/23	
o-Xylene	ND	0.0250	1	06/01/23	06/02/23	
p,m-Xylene	ND	0.0500	1	06/01/23	06/02/23	
Total Xylenes	ND	0.0250	1	06/01/23	06/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.8 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/01/23	06/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.0 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322051
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/03/23	
<i>Surrogate: n-Nonane</i>						
	97.5 %	50-200		06/02/23	06/03/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2323005
Chloride	ND	20.0	1	06/05/23	06/05/23	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	West Shugart 29 Fed. #001	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/7/2023 3:22:28PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2322039-BLK1) Prepared: 06/01/23 Analyzed: 06/01/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.3	70-130			

LCS (2322039-BS1) Prepared: 06/01/23 Analyzed: 06/01/23

Benzene	4.94	0.0250	5.00		98.8	70-130			
Ethylbenzene	4.92	0.0250	5.00		98.5	70-130			
Toluene	5.05	0.0250	5.00		101	70-130			
o-Xylene	5.01	0.0250	5.00		100	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.2	70-130			

Matrix Spike (2322039-MS1) Source: E306001-02 Prepared: 06/01/23 Analyzed: 06/01/23

Benzene	4.21	0.0250	5.00	ND	84.1	54-133			
Ethylbenzene	4.19	0.0250	5.00	ND	83.8	61-133			
Toluene	4.31	0.0250	5.00	ND	86.1	61-130			
o-Xylene	4.27	0.0250	5.00	ND	85.4	63-131			
p,m-Xylene	8.54	0.0500	10.0	ND	85.4	63-131			
Total Xylenes	12.8	0.0250	15.0	ND	85.4	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.4	70-130			

Matrix Spike Dup (2322039-MSD1) Source: E306001-02 Prepared: 06/01/23 Analyzed: 06/01/23

Benzene	5.05	0.0250	5.00	ND	101	54-133	18.2	20	
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133	18.3	20	
Toluene	5.16	0.0250	5.00	ND	103	61-130	18.1	20	
o-Xylene	5.14	0.0250	5.00	ND	103	63-131	18.4	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	18.0	20	
Total Xylenes	15.4	0.0250	15.0	ND	102	63-131	18.1	20	
Surrogate: 4-Bromochlorobenzene-PID	7.47		8.00		93.4	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	West Shugart 29 Fed. #001	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/7/2023 3:22:28PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2322039-BLK1) Prepared: 06/01/23 Analyzed: 06/01/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

LCS (2322039-BS2) Prepared: 06/01/23 Analyzed: 06/01/23

Gasoline Range Organics (C6-C10)	45.4	20.0	50.0		90.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			

Matrix Spike (2322039-MS2) Source: E306001-02 Prepared: 06/01/23 Analyzed: 06/02/23

Gasoline Range Organics (C6-C10)	45.1	20.0	50.0	ND	90.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.8	70-130			

Matrix Spike Dup (2322039-MSD2) Source: E306001-02 Prepared: 06/01/23 Analyzed: 06/01/23

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0	ND	84.0	70-130	7.19	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.3	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	West Shugart 29 Fed. #001	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/7/2023 3:22:28PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2322051-BLK1)					Prepared: 06/02/23 Analyzed: 06/02/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.4		50.0		96.9	50-200			

LCS (2322051-BS1)					Prepared: 06/02/23 Analyzed: 06/02/23				
Diesel Range Organics (C10-C28)	249	25.0	250		99.5	38-132			
Surrogate: n-Nonane	47.6		50.0		95.2	50-200			

Matrix Spike (2322051-MS1)					Source: E306001-01		Prepared: 06/02/23 Analyzed: 06/02/23		
Diesel Range Organics (C10-C28)	565	50.0	250	255	124	38-132			
Surrogate: n-Nonane	49.5		50.0		99.1	50-200			

Matrix Spike Dup (2322051-MSD1)					Source: E306001-01		Prepared: 06/02/23 Analyzed: 06/02/23		
Diesel Range Organics (C10-C28)	586	50.0	250	255	132	38-132	3.55	20	
Surrogate: n-Nonane	48.2		50.0		96.4	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	West Shugart 29 Fed. #001	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/7/2023 3:22:28PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2323005-BLK1)					Prepared: 06/05/23 Analyzed: 06/05/23				
Chloride	ND	20.0							
LCS (2323005-BS1)					Prepared: 06/05/23 Analyzed: 06/05/23				
Chloride	259	20.0	250		104	90-110			
Matrix Spike (2323005-MS1)					Source: E306003-01		Prepared: 06/05/23 Analyzed: 06/07/23		
Chloride	271	200	250	ND	109	80-120			
Matrix Spike Dup (2323005-MSD1)					Source: E306003-01		Prepared: 06/05/23 Analyzed: 06/07/23		
Chloride	342	200	250	ND	137	80-120	23.1	20	M5

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:	West Shugart 29 Fed. #001	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	06/07/23 15:22

- M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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

Project Information

Chain of Custody

Page 1 of 1

Client: Pima Environmental Services Project: <u>West Shogant 29 Feb. #001</u> Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: <u>Hobbs, NM, 88240</u> Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:					Bill To Attention: <u>Devon</u> Address: City, State, Zip Phone: Email: Pima Project # <u>1-205-2</u>					Lab Use Only Lab WO# <u>E 306002</u> Job Number <u>0058-0007</u> Analysis and Method					TAT 1D 2D 3D Standard <u>X</u>				EPA Program CWA SDWA RCRA	
										State NM CO UT AZ TX <u>X</u>										
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM	BGDOC TX		Remarks			
7:00	5/26/23	S	1	S1-6'	1									X						
7:05				S1-7'	2															
7:10				S2-7'	3															
7:15				S2-8'	4															
7:20				S3-6'	5															
7:25				S3-8'	6															
7:30				S4-6'	7															
7:35 ^{Am}				S4-7	8															
Additional Instructions: <u>B# 211658F1</u>																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only Received on ice: <u>(Y) / N</u>												
<u>Karime Adams</u>		5/31/23	200	<u>Nichelle Gungels</u>		5-31-23	1400													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time													
<u>Nichelle Gungels</u>		5-31-23	1730	<u>Andrew Muzzo</u>		5-31-23	1730													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time													
<u>Andrew Muzzo</u>		5-31-23	2330	<u>Carth Mann</u>		6/1/23	8:45													
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

Envirotech Analytical Laboratory

Printed: 6/1/2023 9:19:00AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	06/01/23 08:45	Work Order ID:	E306002
Phone:	(575) 631-6977	Date Logged In:	06/01/23 09:11	Logged In By:	Caitlin Mars
Email:	tom@pimaoil.com	Due Date:	06/07/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: West Shugart 29 Fed. #001

Work Order: E306002

Job Number: 01058-0007

Received: 6/1/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/7/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 6/7/23

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: West Shugart 29 Fed. #001
Workorder: E306002
Date Received: 6/1/2023 8:45:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/1/2023 8:45:00AM, under the Project Name: West Shugart 29 Fed. #001.

The analytical test results summarized in this report with the Project Name: West Shugart 29 Fed. #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

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Rayny Hagan
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	West Shugart 29 Fed. #001	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	06/07/23 15:22

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - 6'	E306002-01A	Soil	05/26/23	06/01/23	Glass Jar, 2 oz.
S1 - 7'	E306002-02A	Soil	05/26/23	06/01/23	Glass Jar, 2 oz.
S2 - 7'	E306002-03A	Soil	05/26/23	06/01/23	Glass Jar, 2 oz.
S2 - 8'	E306002-04A	Soil	05/26/23	06/01/23	Glass Jar, 2 oz.
S3 - 6'	E306002-05A	Soil	05/26/23	06/01/23	Glass Jar, 2 oz.
S3 - 8'	E306002-06A	Soil	05/26/23	06/01/23	Glass Jar, 2 oz.
S4 - 6'	E306002-07A	Soil	05/26/23	06/01/23	Glass Jar, 2 oz.
S4 - 7'	E306002-08A	Soil	05/26/23	06/01/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: West Shugart 29 Fed. #001
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/7/2023 3:22:28PM

S1 - 6'

E306002-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Benzene	ND	0.0250	1	06/01/23	06/02/23	
Ethylbenzene	ND	0.0250	1	06/01/23	06/02/23	
Toluene	ND	0.0250	1	06/01/23	06/02/23	
o-Xylene	ND	0.0250	1	06/01/23	06/02/23	
p,m-Xylene	ND	0.0500	1	06/01/23	06/02/23	
Total Xylenes	ND	0.0250	1	06/01/23	06/02/23	
Surrogate: 4-Bromochlorobenzene-PID	92.9 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/01/23	06/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.4 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322051
Diesel Range Organics (C10-C28)	ND	50.0	2	06/02/23	06/03/23	
Oil Range Organics (C28-C36)	ND	100	2	06/02/23	06/03/23	
Surrogate: n-Nonane	100 %	50-200		06/02/23	06/03/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2323005
Chloride	ND	20.0	1	06/05/23	06/05/23	



Sample Data

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

Project Name: West Shugart 29 Fed. #001
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/7/2023 3:22:28PM

S1 - 7'

E306002-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Benzene	ND	0.0250	1	06/01/23	06/02/23	
Ethylbenzene	ND	0.0250	1	06/01/23	06/02/23	
Toluene	ND	0.0250	1	06/01/23	06/02/23	
o-Xylene	ND	0.0250	1	06/01/23	06/02/23	
p,m-Xylene	ND	0.0500	1	06/01/23	06/02/23	
Total Xylenes	ND	0.0250	1	06/01/23	06/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.7 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/01/23	06/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.7 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322051
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/03/23	
<i>Surrogate: n-Nonane</i>						
	99.9 %	50-200		06/02/23	06/03/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2323005
Chloride	ND	20.0	1	06/05/23	06/05/23	



Sample Data

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

Project Name: West Shugart 29 Fed. #001
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/7/2023 3:22:28PM

S2 - 7'

E306002-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Benzene	ND	0.0250	1	06/01/23	06/02/23	
Ethylbenzene	ND	0.0250	1	06/01/23	06/02/23	
Toluene	ND	0.0250	1	06/01/23	06/02/23	
o-Xylene	ND	0.0250	1	06/01/23	06/02/23	
p,m-Xylene	ND	0.0500	1	06/01/23	06/02/23	
Total Xylenes	ND	0.0250	1	06/01/23	06/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.9 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/01/23	06/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.7 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322051
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/06/23	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		06/02/23	06/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2323005
Chloride	ND	20.0	1	06/05/23	06/05/23	



Sample Data

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

Project Name: West Shugart 29 Fed. #001
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/7/2023 3:22:28PM

S2 - 8'

E306002-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Benzene	ND	0.0250	1	06/01/23	06/02/23	
Ethylbenzene	ND	0.0250	1	06/01/23	06/02/23	
Toluene	ND	0.0250	1	06/01/23	06/02/23	
o-Xylene	ND	0.0250	1	06/01/23	06/02/23	
p,m-Xylene	ND	0.0500	1	06/01/23	06/02/23	
Total Xylenes	ND	0.0250	1	06/01/23	06/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.0 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/01/23	06/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.2 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322051
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/03/23	
<i>Surrogate: n-Nonane</i>						
	97.8 %	50-200		06/02/23	06/03/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2323005
Chloride	ND	20.0	1	06/05/23	06/05/23	



Sample Data

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

Project Name: West Shugart 29 Fed. #001
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/7/2023 3:22:28PM

S3 - 6'

E306002-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Benzene	ND	0.0250	1	06/01/23	06/02/23	
Ethylbenzene	ND	0.0250	1	06/01/23	06/02/23	
Toluene	ND	0.0250	1	06/01/23	06/02/23	
o-Xylene	ND	0.0250	1	06/01/23	06/02/23	
p,m-Xylene	ND	0.0500	1	06/01/23	06/02/23	
Total Xylenes	ND	0.0250	1	06/01/23	06/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/01/23	06/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.1 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322051
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/03/23	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		06/02/23	06/03/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2323005
Chloride	ND	20.0	1	06/05/23	06/05/23	



Sample Data

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

Project Name: West Shugart 29 Fed. #001
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/7/2023 3:22:28PM

S3 - 8'

E306002-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Benzene	ND	0.0250	1	06/01/23	06/02/23	
Ethylbenzene	ND	0.0250	1	06/01/23	06/02/23	
Toluene	ND	0.0250	1	06/01/23	06/02/23	
o-Xylene	ND	0.0250	1	06/01/23	06/02/23	
p,m-Xylene	ND	0.0500	1	06/01/23	06/02/23	
Total Xylenes	ND	0.0250	1	06/01/23	06/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.8 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/01/23	06/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.4 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322051
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/03/23	
<i>Surrogate: n-Nonane</i>						
	98.6 %	50-200		06/02/23	06/03/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2323005
Chloride	ND	20.0	1	06/05/23	06/05/23	



Sample Data

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

Project Name: West Shugart 29 Fed. #001
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/7/2023 3:22:28PM

S4 - 6'

E306002-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Benzene	ND	0.0250	1	06/01/23	06/02/23	
Ethylbenzene	ND	0.0250	1	06/01/23	06/02/23	
Toluene	ND	0.0250	1	06/01/23	06/02/23	
o-Xylene	ND	0.0250	1	06/01/23	06/02/23	
p,m-Xylene	ND	0.0500	1	06/01/23	06/02/23	
Total Xylenes	ND	0.0250	1	06/01/23	06/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/01/23	06/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.9 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322051
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/06/23	
<i>Surrogate: n-Nonane</i>						
	118 %	50-200		06/02/23	06/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2323005
Chloride	ND	20.0	1	06/05/23	06/05/23	



Sample Data

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

Project Name: West Shugart 29 Fed. #001
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/7/2023 3:22:28PM

S4 - 7'

E306002-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Benzene	ND	0.0250	1	06/01/23	06/02/23	
Ethylbenzene	ND	0.0250	1	06/01/23	06/02/23	
Toluene	ND	0.0250	1	06/01/23	06/02/23	
o-Xylene	ND	0.0250	1	06/01/23	06/02/23	
p,m-Xylene	ND	0.0500	1	06/01/23	06/02/23	
Total Xylenes	ND	0.0250	1	06/01/23	06/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.8 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2322039
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/01/23	06/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.0 %	70-130		06/01/23	06/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322051
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/03/23	
<i>Surrogate: n-Nonane</i>						
	97.5 %	50-200		06/02/23	06/03/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2323005
Chloride	ND	20.0	1	06/05/23	06/05/23	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	West Shugart 29 Fed. #001	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/7/2023 3:22:28PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2322039-BLK1) Prepared: 06/01/23 Analyzed: 06/01/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.3	70-130			

LCS (2322039-BS1) Prepared: 06/01/23 Analyzed: 06/01/23

Benzene	4.94	0.0250	5.00		98.8	70-130			
Ethylbenzene	4.92	0.0250	5.00		98.5	70-130			
Toluene	5.05	0.0250	5.00		101	70-130			
o-Xylene	5.01	0.0250	5.00		100	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.2	70-130			

Matrix Spike (2322039-MS1) Source: E306001-02 Prepared: 06/01/23 Analyzed: 06/01/23

Benzene	4.21	0.0250	5.00	ND	84.1	54-133			
Ethylbenzene	4.19	0.0250	5.00	ND	83.8	61-133			
Toluene	4.31	0.0250	5.00	ND	86.1	61-130			
o-Xylene	4.27	0.0250	5.00	ND	85.4	63-131			
p,m-Xylene	8.54	0.0500	10.0	ND	85.4	63-131			
Total Xylenes	12.8	0.0250	15.0	ND	85.4	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.4	70-130			

Matrix Spike Dup (2322039-MSD1) Source: E306001-02 Prepared: 06/01/23 Analyzed: 06/01/23

Benzene	5.05	0.0250	5.00	ND	101	54-133	18.2	20	
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133	18.3	20	
Toluene	5.16	0.0250	5.00	ND	103	61-130	18.1	20	
o-Xylene	5.14	0.0250	5.00	ND	103	63-131	18.4	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	18.0	20	
Total Xylenes	15.4	0.0250	15.0	ND	102	63-131	18.1	20	
Surrogate: 4-Bromochlorobenzene-PID	7.47		8.00		93.4	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	West Shugart 29 Fed. #001	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/7/2023 3:22:28PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2322039-BLK1) Prepared: 06/01/23 Analyzed: 06/01/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

LCS (2322039-BS2) Prepared: 06/01/23 Analyzed: 06/01/23

Gasoline Range Organics (C6-C10)	45.4	20.0	50.0		90.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			

Matrix Spike (2322039-MS2) Source: E306001-02 Prepared: 06/01/23 Analyzed: 06/02/23

Gasoline Range Organics (C6-C10)	45.1	20.0	50.0	ND	90.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.8	70-130			

Matrix Spike Dup (2322039-MSD2) Source: E306001-02 Prepared: 06/01/23 Analyzed: 06/01/23

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0	ND	84.0	70-130	7.19	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.3	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	West Shugart 29 Fed. #001	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/7/2023 3:22:28PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2322051-BLK1)					Prepared: 06/02/23 Analyzed: 06/02/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.4		50.0		96.9	50-200			

LCS (2322051-BS1)					Prepared: 06/02/23 Analyzed: 06/02/23				
Diesel Range Organics (C10-C28)	249	25.0	250		99.5	38-132			
Surrogate: n-Nonane	47.6		50.0		95.2	50-200			

Matrix Spike (2322051-MS1)					Source: E306001-01		Prepared: 06/02/23 Analyzed: 06/02/23		
Diesel Range Organics (C10-C28)	565	50.0	250	255	124	38-132			
Surrogate: n-Nonane	49.5		50.0		99.1	50-200			

Matrix Spike Dup (2322051-MSD1)					Source: E306001-01		Prepared: 06/02/23 Analyzed: 06/02/23		
Diesel Range Organics (C10-C28)	586	50.0	250	255	132	38-132	3.55	20	
Surrogate: n-Nonane	48.2		50.0		96.4	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	West Shugart 29 Fed. #001	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/7/2023 3:22:28PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2323005-BLK1)					Prepared: 06/05/23 Analyzed: 06/05/23				
Chloride	ND	20.0							
LCS (2323005-BS1)					Prepared: 06/05/23 Analyzed: 06/05/23				
Chloride	259	20.0	250		104	90-110			
Matrix Spike (2323005-MS1)					Source: E306003-01		Prepared: 06/05/23 Analyzed: 06/07/23		
Chloride	271	200	250	ND	109	80-120			
Matrix Spike Dup (2323005-MSD1)					Source: E306003-01		Prepared: 06/05/23 Analyzed: 06/07/23		
Chloride	342	200	250	ND	137	80-120	23.1	20	M5

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:	West Shugart 29 Fed. #001	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	06/07/23 15:22

- M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



Project Information

Chain of Custody

Page 1 of 1

Client: Pima Environmental Services Project: <u>West Shogant 29 Feb. #001</u> Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: <u>Hobbs, NM, 88240</u> Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:					Bill To Attention: <u>Devon</u> Address: City, State, Zip Phone: Email: Pima Project # <u>1-205-2</u>					Lab Use Only Lab WO# <u>E 306002</u> Job Number <u>0058-0007</u> Analysis and Method					TAT 1D 2D 3D Standard <u>X</u>				EPA Program CWA SDWA RCRA	
										State NM CO UT AZ TX <u>X</u>										
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM	BGDOC TX			Remarks		
7:00	5/26/23	S	1	S1-6'	1									X						
7:05				S1-7'	2															
7:10				S2-7'	3															
7:15				S2-8'	4															
7:20				S3-6'	5															
7:25				S3-8'	6															
7:30				S4-6'	7															
7:35 ^{Am}				S4-7	8															
Additional Instructions: <u>B# 211658F1</u>																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.								
Relinquished by: (Signature) <u>Karime Adams</u> Date <u>5/31/23</u> Time <u>200</u>												Received by: (Signature) <u>Nichelle Gungels</u> Date <u>5-31-23</u> Time <u>1400</u>								
Relinquished by: (Signature) <u>Nichelle Gungels</u> Date <u>5-31-23</u> Time <u>1730</u>												Received by: (Signature) <u>Andrew Muzzo</u> Date <u>5-31-23</u> Time <u>1730</u>								
Relinquished by: (Signature) <u>Andrew Muzzo</u> Date <u>5-31-23</u> Time <u>2330</u>												Received by: (Signature) <u>Caitlin Marx</u> Date <u>6/1/23</u> Time <u>8:45</u>								
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA								
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				


envirotech

Envirotech Analytical Laboratory

Printed: 6/1/2023 9:19:00AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	06/01/23 08:45	Work Order ID:	E306002
Phone:	(575) 631-6977	Date Logged In:	06/01/23 09:11	Logged In By:	Caitlin Mars
Email:	tom@pimaoil.com	Due Date:	06/07/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Shugart W 29 Fed 1

Work Order: E306128

Job Number: 01058-0007

Received: 6/16/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/21/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 6/21/23

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Shugart W 29 Fed 1
Workorder: E306128
Date Received: 6/16/2023 7:35:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/16/2023 7:35:00AM, under the Project Name: Shugart W 29 Fed 1.

The analytical test results summarized in this report with the Project Name: Shugart W 29 Fed 1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Shugart W 29 Fed 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	06/21/23 17:01

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - 5'	E306128-01A	Soil	06/14/23	06/16/23	Glass Jar, 2 oz.
S2 - 5'	E306128-02A	Soil	06/14/23	06/16/23	Glass Jar, 2 oz.
S1 - 6'	E306128-03A	Soil	06/14/23	06/16/23	Glass Jar, 2 oz.
S2 - 6'	E306128-04A	Soil	06/14/23	06/16/23	Glass Jar, 2 oz.
S3 - 5'	E306128-05A	Soil	06/14/23	06/16/23	Glass Jar, 2 oz.
S3 - 6'	E306128-06A	Soil	06/14/23	06/16/23	Glass Jar, 2 oz.
S4 - 5'	E306128-07A	Soil	06/14/23	06/16/23	Glass Jar, 2 oz.
S4 - 6'	E306128-08A	Soil	06/14/23	06/16/23	Glass Jar, 2 oz.
C1 - 4'	E306128-09A	Soil	06/14/23	06/16/23	Glass Jar, 2 oz.
C2 - 4'	E306128-10A	Soil	06/14/23	06/16/23	Glass Jar, 2 oz.
C1 - 6'	E306128-11A	Soil	06/14/23	06/16/23	Glass Jar, 2 oz.
C2 - 6'	E306128-12A	Soil	06/14/23	06/16/23	Glass Jar, 2 oz.
C3 - 4'	E306128-13A	Soil	06/14/23	06/16/23	Glass Jar, 2 oz.
C3 - 6'	E306128-14A	Soil	06/14/23	06/16/23	Glass Jar, 2 oz.
D1 - 5'	E306128-15A	Soil	06/14/23	06/16/23	Glass Jar, 2 oz.
D1 - 6'	E306128-16A	Soil	06/14/23	06/16/23	Glass Jar, 2 oz.
E1 - 5'	E306128-17A	Soil	06/14/23	06/16/23	Glass Jar, 2 oz.
E1 - 6'	E306128-18A	Soil	06/14/23	06/16/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: Shugart W 29 Fed 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/21/2023 5:01:31PM

S1 - 5'

E306128-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Benzene	ND	0.0250	1	06/16/23	06/16/23	
Ethylbenzene	ND	0.0250	1	06/16/23	06/16/23	
Toluene	ND	0.0250	1	06/16/23	06/16/23	
o-Xylene	ND	0.0250	1	06/16/23	06/16/23	
p,m-Xylene	ND	0.0500	1	06/16/23	06/16/23	
Total Xylenes	ND	0.0250	1	06/16/23	06/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.5 %	70-130		06/16/23	06/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/23	06/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.1 %	70-130		06/16/23	06/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2325018	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/23	06/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/23	06/20/23	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		06/19/23	06/20/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2325012	
Chloride	220	20.0	1	06/19/23	06/19/23	



Sample Data

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

Project Name: Shugart W 29 Fed 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/21/2023 5:01:31PM

S2 - 5'

E306128-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Benzene	ND	0.0250	1	06/16/23	06/16/23	
Ethylbenzene	ND	0.0250	1	06/16/23	06/16/23	
Toluene	ND	0.0250	1	06/16/23	06/16/23	
o-Xylene	ND	0.0250	1	06/16/23	06/16/23	
p,m-Xylene	ND	0.0500	1	06/16/23	06/16/23	
Total Xylenes	ND	0.0250	1	06/16/23	06/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.5 %	70-130		06/16/23	06/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/23	06/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.2 %	70-130		06/16/23	06/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2325018	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/23	06/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/23	06/20/23	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		06/19/23	06/20/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2325012	
Chloride	192	20.0	1	06/19/23	06/19/23	



Sample Data

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

Project Name: Shugart W 29 Fed 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/21/2023 5:01:31PM

S1 - 6'

E306128-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Benzene	ND	0.0250	1	06/16/23	06/16/23	
Ethylbenzene	ND	0.0250	1	06/16/23	06/16/23	
Toluene	ND	0.0250	1	06/16/23	06/16/23	
o-Xylene	ND	0.0250	1	06/16/23	06/16/23	
p,m-Xylene	ND	0.0500	1	06/16/23	06/16/23	
Total Xylenes	ND	0.0250	1	06/16/23	06/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.2 %	70-130		06/16/23	06/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/23	06/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.0 %	70-130		06/16/23	06/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2325018	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/23	06/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/23	06/20/23	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		06/19/23	06/20/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2325012	
Chloride	260	20.0	1	06/19/23	06/19/23	



Sample Data

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

Project Name: Shugart W 29 Fed 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/21/2023 5:01:31PM

S2 - 6'

E306128-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Benzene	ND	0.0250	1	06/16/23	06/16/23	
Ethylbenzene	ND	0.0250	1	06/16/23	06/16/23	
Toluene	ND	0.0250	1	06/16/23	06/16/23	
o-Xylene	ND	0.0250	1	06/16/23	06/16/23	
p,m-Xylene	ND	0.0500	1	06/16/23	06/16/23	
Total Xylenes	ND	0.0250	1	06/16/23	06/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		06/16/23	06/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/23	06/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.2 %	70-130		06/16/23	06/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2325018	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/23	06/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/23	06/20/23	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		06/19/23	06/20/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2325012	
Chloride	56.8	20.0	1	06/19/23	06/19/23	



Sample Data

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

Project Name: Shugart W 29 Fed 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/21/2023 5:01:31PM

S3 - 5'

E306128-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2324063
Benzene	ND	0.0250	1	06/16/23	06/16/23	
Ethylbenzene	ND	0.0250	1	06/16/23	06/16/23	
Toluene	ND	0.0250	1	06/16/23	06/16/23	
o-Xylene	ND	0.0250	1	06/16/23	06/16/23	
p,m-Xylene	ND	0.0500	1	06/16/23	06/16/23	
Total Xylenes	ND	0.0250	1	06/16/23	06/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.9 %	70-130		06/16/23	06/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2324063
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/23	06/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.3 %	70-130		06/16/23	06/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2325018
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/23	06/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/23	06/20/23	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		06/19/23	06/20/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2325012
Chloride	68.3	20.0	1	06/19/23	06/19/23	



Sample Data

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

Project Name: Shugart W 29 Fed 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/21/2023 5:01:31PM

S3 - 6'

E306128-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2324063
Benzene	ND	0.0250	1	06/16/23	06/16/23	
Ethylbenzene	ND	0.0250	1	06/16/23	06/16/23	
Toluene	ND	0.0250	1	06/16/23	06/16/23	
o-Xylene	ND	0.0250	1	06/16/23	06/16/23	
p,m-Xylene	ND	0.0500	1	06/16/23	06/16/23	
Total Xylenes	ND	0.0250	1	06/16/23	06/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.7 %	70-130		06/16/23	06/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2324063
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/23	06/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.6 %	70-130		06/16/23	06/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2325018
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/23	06/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/23	06/20/23	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		06/19/23	06/20/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2325012
Chloride	249	20.0	1	06/19/23	06/19/23	



Sample Data

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

Project Name: Shugart W 29 Fed 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/21/2023 5:01:31PM

S4 - 5'

E306128-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Benzene	ND	0.0250	1	06/16/23	06/17/23	
Ethylbenzene	ND	0.0250	1	06/16/23	06/17/23	
Toluene	ND	0.0250	1	06/16/23	06/17/23	
o-Xylene	ND	0.0250	1	06/16/23	06/17/23	
p,m-Xylene	ND	0.0500	1	06/16/23	06/17/23	
Total Xylenes	ND	0.0250	1	06/16/23	06/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.9 %	70-130		06/16/23	06/17/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/23	06/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.6 %	70-130		06/16/23	06/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2325018	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/23	06/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/23	06/20/23	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		06/19/23	06/20/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2325012	
Chloride	90.9	20.0	1	06/19/23	06/19/23	



Sample Data

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

Project Name: Shugart W 29 Fed 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/21/2023 5:01:31PM

S4 - 6'

E306128-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Benzene	ND	0.0250	1	06/16/23	06/17/23	
Ethylbenzene	ND	0.0250	1	06/16/23	06/17/23	
Toluene	ND	0.0250	1	06/16/23	06/17/23	
o-Xylene	ND	0.0250	1	06/16/23	06/17/23	
p,m-Xylene	ND	0.0500	1	06/16/23	06/17/23	
Total Xylenes	ND	0.0250	1	06/16/23	06/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.0 %	70-130		06/16/23	06/17/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/23	06/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.0 %	70-130		06/16/23	06/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2325018	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/23	06/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/23	06/21/23	
<i>Surrogate: n-Nonane</i>						
	96.5 %	50-200		06/19/23	06/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2325012	
Chloride	191	20.0	1	06/19/23	06/19/23	



Sample Data

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

Project Name: Shugart W 29 Fed 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/21/2023 5:01:31PM

C1 - 4'

E306128-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Benzene	ND	0.0250	1	06/16/23	06/17/23	
Ethylbenzene	ND	0.0250	1	06/16/23	06/17/23	
Toluene	ND	0.0250	1	06/16/23	06/17/23	
o-Xylene	ND	0.0250	1	06/16/23	06/17/23	
p,m-Xylene	ND	0.0500	1	06/16/23	06/17/23	
Total Xylenes	ND	0.0250	1	06/16/23	06/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	70-130		06/16/23	06/17/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/23	06/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.4 %	70-130		06/16/23	06/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2325018	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/23	06/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/23	06/21/23	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		06/19/23	06/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2325012	
Chloride	202	20.0	1	06/19/23	06/19/23	



Sample Data

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

Project Name: Shugart W 29 Fed 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/21/2023 5:01:31PM

C2 - 4'

E306128-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Benzene	ND	0.0250	1	06/16/23	06/16/23	
Ethylbenzene	ND	0.0250	1	06/16/23	06/16/23	
Toluene	ND	0.0250	1	06/16/23	06/16/23	
o-Xylene	ND	0.0250	1	06/16/23	06/16/23	
p,m-Xylene	ND	0.0500	1	06/16/23	06/16/23	
Total Xylenes	ND	0.0250	1	06/16/23	06/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.8 %	70-130		06/16/23	06/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/23	06/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.4 %	70-130		06/16/23	06/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2325018	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/23	06/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/23	06/21/23	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		06/19/23	06/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2325012	
Chloride	ND	20.0	1	06/19/23	06/19/23	



Sample Data

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

Project Name: Shugart W 29 Fed 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/21/2023 5:01:31PM

C1 - 6'

E306128-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Benzene	ND	0.0250	1	06/16/23	06/17/23	
Ethylbenzene	ND	0.0250	1	06/16/23	06/17/23	
Toluene	ND	0.0250	1	06/16/23	06/17/23	
o-Xylene	ND	0.0250	1	06/16/23	06/17/23	
p,m-Xylene	ND	0.0500	1	06/16/23	06/17/23	
Total Xylenes	ND	0.0250	1	06/16/23	06/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.2 %	70-130		06/16/23	06/17/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/23	06/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.0 %	70-130		06/16/23	06/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2325018	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/23	06/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/23	06/21/23	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		06/19/23	06/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2325012	
Chloride	47.2	20.0	1	06/19/23	06/19/23	



Sample Data

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

Project Name: Shugart W 29 Fed 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/21/2023 5:01:31PM

C2 - 6'

E306128-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Benzene	ND	0.0250	1	06/16/23	06/17/23	
Ethylbenzene	ND	0.0250	1	06/16/23	06/17/23	
Toluene	ND	0.0250	1	06/16/23	06/17/23	
o-Xylene	ND	0.0250	1	06/16/23	06/17/23	
p,m-Xylene	ND	0.0500	1	06/16/23	06/17/23	
Total Xylenes	ND	0.0250	1	06/16/23	06/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		06/16/23	06/17/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/23	06/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.7 %	70-130		06/16/23	06/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2325018	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/23	06/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/23	06/21/23	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		06/19/23	06/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2325012	
Chloride	ND	20.0	1	06/19/23	06/19/23	



Sample Data

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

Project Name: Shugart W 29 Fed 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/21/2023 5:01:31PM

C3 - 4'

E306128-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Benzene	ND	0.0250	1	06/16/23	06/17/23	
Ethylbenzene	ND	0.0250	1	06/16/23	06/17/23	
Toluene	ND	0.0250	1	06/16/23	06/17/23	
o-Xylene	ND	0.0250	1	06/16/23	06/17/23	
p,m-Xylene	ND	0.0500	1	06/16/23	06/17/23	
Total Xylenes	ND	0.0250	1	06/16/23	06/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		06/16/23	06/17/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/23	06/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.4 %	70-130		06/16/23	06/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2325018	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/23	06/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/23	06/21/23	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		06/19/23	06/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2325012	
Chloride	2470	20.0	1	06/19/23	06/19/23	



Sample Data

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

Project Name: Shugart W 29 Fed 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/21/2023 5:01:31PM

C3 - 6'

E306128-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Benzene	ND	0.0250	1	06/16/23	06/17/23	
Ethylbenzene	ND	0.0250	1	06/16/23	06/17/23	
Toluene	ND	0.0250	1	06/16/23	06/17/23	
o-Xylene	ND	0.0250	1	06/16/23	06/17/23	
p,m-Xylene	ND	0.0500	1	06/16/23	06/17/23	
Total Xylenes	ND	0.0250	1	06/16/23	06/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.8 %	70-130		06/16/23	06/17/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/23	06/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.0 %	70-130		06/16/23	06/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2325018	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/23	06/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/23	06/21/23	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		06/19/23	06/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2325012	
Chloride	ND	20.0	1	06/19/23	06/19/23	



Sample Data

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

Project Name: Shugart W 29 Fed 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/21/2023 5:01:31PM

D1 - 5'

E306128-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2324063
Benzene	ND	0.0250	1	06/16/23	06/17/23	
Ethylbenzene	ND	0.0250	1	06/16/23	06/17/23	
Toluene	ND	0.0250	1	06/16/23	06/17/23	
o-Xylene	ND	0.0250	1	06/16/23	06/17/23	
p,m-Xylene	ND	0.0500	1	06/16/23	06/17/23	
Total Xylenes	ND	0.0250	1	06/16/23	06/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.8 %	70-130		06/16/23	06/17/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2324063
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/23	06/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.1 %	70-130		06/16/23	06/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2325018
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/23	06/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/23	06/21/23	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		06/19/23	06/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2325012
Chloride	1390	20.0	1	06/19/23	06/19/23	



Sample Data

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

Project Name: Shugart W 29 Fed 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/21/2023 5:01:31PM

D1 - 6'

E306128-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Benzene	ND	0.0250	1	06/16/23	06/17/23	
Ethylbenzene	ND	0.0250	1	06/16/23	06/17/23	
Toluene	ND	0.0250	1	06/16/23	06/17/23	
o-Xylene	ND	0.0250	1	06/16/23	06/17/23	
p,m-Xylene	ND	0.0500	1	06/16/23	06/17/23	
Total Xylenes	ND	0.0250	1	06/16/23	06/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.9 %	70-130		06/16/23	06/17/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/23	06/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.9 %	70-130		06/16/23	06/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2325018	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/23	06/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/23	06/21/23	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		06/19/23	06/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2325012	
Chloride	ND	20.0	1	06/19/23	06/19/23	



Sample Data

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

Project Name: Shugart W 29 Fed 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
6/21/2023 5:01:31PM

E1 - 5'

E306128-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Benzene	ND	0.0250	1	06/16/23	06/17/23	
Ethylbenzene	ND	0.0250	1	06/16/23	06/17/23	
Toluene	ND	0.0250	1	06/16/23	06/17/23	
o-Xylene	ND	0.0250	1	06/16/23	06/17/23	
p,m-Xylene	ND	0.0500	1	06/16/23	06/17/23	
Total Xylenes	ND	0.0250	1	06/16/23	06/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.5 %	70-130		06/16/23	06/17/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/23	06/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.4 %	70-130		06/16/23	06/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2325018	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/23	06/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/23	06/21/23	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		06/19/23	06/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2325012	
Chloride	1240	20.0	1	06/19/23	06/20/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W 29 Fed 1	Reported: 6/21/2023 5:01:31PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

E1 - 6'

E306128-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Benzene	ND	0.0250	1	06/16/23	06/17/23	
Ethylbenzene	ND	0.0250	1	06/16/23	06/17/23	
Toluene	ND	0.0250	1	06/16/23	06/17/23	
o-Xylene	ND	0.0250	1	06/16/23	06/17/23	
p,m-Xylene	ND	0.0500	1	06/16/23	06/17/23	
Total Xylenes	ND	0.0250	1	06/16/23	06/17/23	
Surrogate: 4-Bromochlorobenzene-PID	94.6 %	70-130		06/16/23	06/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2324063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/23	06/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	85.8 %	70-130		06/16/23	06/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2325018	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/23	06/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/23	06/21/23	
Surrogate: n-Nonane	104 %	50-200		06/19/23	06/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2325012	
Chloride	ND	20.0	1	06/19/23	06/20/23	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W 29 Fed 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/21/2023 5:01:31PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2324063-BLK1) Prepared: 06/16/23 Analyzed: 06/16/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.58		8.00		94.7	70-130			

LCS (2324063-BS1) Prepared: 06/16/23 Analyzed: 06/16/23

Benzene	5.30	0.0250	5.00		106	70-130			
Ethylbenzene	5.21	0.0250	5.00		104	70-130			
Toluene	5.47	0.0250	5.00		109	70-130			
o-Xylene	5.46	0.0250	5.00		109	70-130			
p,m-Xylene	10.8	0.0500	10.0		108	70-130			
Total Xylenes	16.2	0.0250	15.0		108	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.6	70-130			

Matrix Spike (2324063-MS1) Source: E306128-10 Prepared: 06/16/23 Analyzed: 06/16/23

Benzene	4.43	0.0250	5.00	ND	88.6	54-133			
Ethylbenzene	4.37	0.0250	5.00	ND	87.4	61-133			
Toluene	4.58	0.0250	5.00	ND	91.6	61-130			
o-Xylene	4.57	0.0250	5.00	ND	91.4	63-131			
p,m-Xylene	9.02	0.0500	10.0	ND	90.2	63-131			
Total Xylenes	13.6	0.0250	15.0	ND	90.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.3	70-130			

Matrix Spike Dup (2324063-MSD1) Source: E306128-10 Prepared: 06/16/23 Analyzed: 06/16/23

Benzene	5.16	0.0250	5.00	ND	103	54-133	15.2	20	
Ethylbenzene	5.11	0.0250	5.00	ND	102	61-133	15.6	20	
Toluene	5.34	0.0250	5.00	ND	107	61-130	15.4	20	
o-Xylene	5.34	0.0250	5.00	ND	107	63-131	15.6	20	
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131	15.7	20	
Total Xylenes	15.9	0.0250	15.0	ND	106	63-131	15.7	20	
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.1	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W 29 Fed 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/21/2023 5:01:31PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2324063-BLK1) Prepared: 06/16/23 Analyzed: 06/16/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.90		8.00		86.2	70-130			

LCS (2324063-BS2) Prepared: 06/16/23 Analyzed: 06/16/23

Gasoline Range Organics (C6-C10)	54.1	20.0	50.0		108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.01		8.00		87.7	70-130			

Matrix Spike (2324063-MS2) Source: E306128-10 Prepared: 06/16/23 Analyzed: 06/16/23

Gasoline Range Organics (C6-C10)	53.3	20.0	50.0	ND	107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.07		8.00		88.4	70-130			

Matrix Spike Dup (2324063-MSD2) Source: E306128-10 Prepared: 06/16/23 Analyzed: 06/16/23

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0	ND	105	70-130	1.77	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.00		8.00		87.4	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W 29 Fed 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/21/2023 5:01:31PM

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

Blank (2325018-BLK1)					Prepared: 06/19/23 Analyzed: 06/20/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.4		50.0		105	50-200			

LCS (2325018-BS1)					Prepared: 06/19/23 Analyzed: 06/20/23				
Diesel Range Organics (C10-C28)	251	25.0	250		100	38-132			
Surrogate: n-Nonane	46.8		50.0		93.6	50-200			

Matrix Spike (2325018-MS1)					Source: E306128-14		Prepared: 06/19/23 Analyzed: 06/20/23		
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.6	38-132			
Surrogate: n-Nonane	50.7		50.0		101	50-200			

Matrix Spike Dup (2325018-MSD1)					Source: E306128-14		Prepared: 06/19/23 Analyzed: 06/20/23		
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132	7.17	20	
Surrogate: n-Nonane	50.2		50.0		100	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Shugart W 29 Fed 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/21/2023 5:01:31PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2325012-BLK1)					Prepared: 06/19/23 Analyzed: 06/19/23				
Chloride	ND	20.0							
LCS (2325012-BS1)					Prepared: 06/19/23 Analyzed: 06/19/23				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2325012-MS1)					Source: E306128-01		Prepared: 06/19/23 Analyzed: 06/19/23		
Chloride	405	20.0	250	220	74.0	80-120			M2
Matrix Spike Dup (2325012-MSD1)					Source: E306128-01		Prepared: 06/19/23 Analyzed: 06/19/23		
Chloride	376	20.0	250	220	62.6	80-120	7.31	20	M2

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:	Shugart W 29 Fed 1	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	06/21/23 17:01

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



Project Information

Chain of Custody

Page 1 of 2

Client: Pima Environmental Services Project: <u>Shogert W 29 Pal 1</u> Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:					Bill To Attention: <u>Debra</u> Address: City, State, Zip: Phone: Email: Pima Project # <u>205-2</u>					Lab Use Only Lab WO# <u>E306128</u> Job Number <u>01058-0007</u> Analysis and Method					TAT 1D <input type="checkbox"/> 2D <input type="checkbox"/> 3D <input type="checkbox"/> Standard <input checked="" type="checkbox"/>				EPA Program CWA <input type="checkbox"/> SDWA <input type="checkbox"/> RCRA <input type="checkbox"/>	
										State NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/>										
										DRO/ORO by 8015 <input type="checkbox"/> GRO/DRO by 8015 <input type="checkbox"/> BTEX by 8021 <input type="checkbox"/> VOC by 8260 <input type="checkbox"/> Metals 6010 <input type="checkbox"/> Chloride 300.0 <input type="checkbox"/> BGDOC NM <input checked="" type="checkbox"/> BGDOC TX <input type="checkbox"/>										
														Remarks						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number															
800	6/16/23	S	1	51-5'	1															
805			2	52-5'	2															
810			3	51-6'	3															
815			4	52-6'	4															
820			5	53-5'	5															
825			6	53-6'	6															
830			7	54-5'	7															
835			8	54-6'	8															
840			9	C1-4'	9															
845			10	C2-4'	10															
Additional Instructions: <u>Billig # 21165881</u>																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.										
Relinquished by: (Signature) <u>[Signature]</u> Date: 6/15/23 Time: 230										Received by: (Signature) <u>[Signature]</u> Date: 6-15-23 Time: 1430										
Relinquished by: (Signature) <u>[Signature]</u> Date: 6-15-23 Time: 1715										Received by: (Signature) <u>[Signature]</u> Date: 6-15-23 Time: 1730										
Relinquished by: (Signature) <u>[Signature]</u> Date: 6-16-23 Time: 2400										Received by: (Signature) <u>[Signature]</u> Date: 6/16/23 Time: 7:35										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				



Project Information

Chain of Custody

Page 2 of 2

Client: Pima Environmental Services Project: Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip Hobbs, NM, 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:					Bill To Attention: <u>Dan</u> Address: City, State, Zip Phone: Email: Pima Project # <u>205-2</u>					Lab Use Only Lab Work # <u>E306128</u> Job Number <u>61058-0007</u>					TAT 1D 2D 3D Standard				EPA Program CWA SDWA	
										Analysis and Method					RCRA		State NM CO UT AZ TX			
										DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC TX					Remarks					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number															
850	6/11/23	S	11	C1-6"	11															
900			12	C2-6"	12															
905			13	C3-4"	13															
910			14	C3-6"	14															
915			15	D1-5"	15															
920			16	D1-6"	16															
925			17	E1-5"	17															
930			18	E1-6"	18															

Additional Instructions: Billing # 21165881

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

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>6/15/23</u>	Time <u>2:30</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>6-15-23</u>	Time <u>1:30</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>6-15-23</u>	Time <u>1:15</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>6-15-23</u>	Time <u>1:30</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>6-16-23</u>	Time <u>2:00</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>6/16/23</u>	Time <u>7:35</u>

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

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

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

Envirotech Analytical Laboratory

Printed: 6/16/2023 10:50:57AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	06/16/23 07:35	Work Order ID:	E306128
Phone:	(575) 631-6977	Date Logged In:	06/16/23 08:58	Logged In By:	Caitlin Mars
Email:	tom@pimaoil.com	Due Date:	06/22/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Number of containers was listed incorrectly on COC when received from 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? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Project Information

Chain of Custody

Page 1 of 2

Client: Pima Environmental Services					Bill To		Lab Use Only		TAT				EPA Program			
Project: <u>Shogert W 29 Feb 1</u>					Attention: <u>Deane</u>		Lab WO# <u>E306/28</u>		Job Number <u>01058-0007</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum					Address:		Analysis and Method								RCRA	
Address: 5614 N. Lovington Hwy.					City, State, Zip											
City, State, Zip: Hobbs, NM, 88240					Phone:											
Phone: 580-748-1613					Email:											
Email: tom@pimaoil.com					Pima Project # <u>205-2</u>											
Report due by:																

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
Am 800	6/16/23	S	1	51-5'	1							X		Corrected # of Containers 6/16/23 CM
805			1	52-5'	2									
810			1	51-6'	3									
815			1	52-6'	4									
820			1	53-5'	5									
825			1	53-6'	6									
830			1	54-5'	7									
835			1	54-6'	8									
840			1	C1-4'	9									
845			1	C2-4'	10									

Additional Instructions: Bill # 21165881

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
<u>[Signature]</u>	6/15/23	230	<u>[Signature]</u>	6-15-23	1430	Received on ice: <u>(Y)</u> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1
<u>[Signature]</u>	6-15-23	1715	<u>[Signature]</u>	6-15-23	1730	T2
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T3
<u>[Signature]</u>	6-16-23	2400	<u>[Signature]</u>	6/16/23	7:35	AVG Temp °C <u>4</u>

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

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

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



Project Information

Chain of Custody

Page 2 of 2

Client: Pima Environmental Services Project: <u>Shugart W 29 Fed 1</u> Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:					Bill To Attention: <u>Daniel</u> Address: City, State, Zip: Phone: Email: Pima Project # <u>205-2</u>					Lab Use Only Lab Work: <u>E3060128</u> Job Number: <u>01058-0007</u> Analysis and Method					TAT 1D 2D 3D Standard				EPA Program CWA SDWA RCRA	
										State NM CO UT AZ TX										
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BDOC NM	BDOC TX		Remarks			
850	6/4/23	S	1H	C1-6"	11															
900			12	C2-6"	12															
905			13	C3-4"	13															
910			14	C3-6"	14															
915			15	D1-5"	15															
920			16	D1-6"	16															
925			17	E1-5"	17															
930			18	E1-6"	18									X						
Additional Instructions: <u>Bill # 21165881</u>																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.										
Relinquished by: (Signature) <u>[Signature]</u>					Date <u>6/15/23</u>		Time <u>230</u>		Received by: (Signature) <u>[Signature]</u>					Date <u>6/15/23</u>		Time <u>1430</u>		Lab Use Only Received on ice: <u>Y/N</u>		
Relinquished by: (Signature) <u>[Signature]</u>					Date <u>6-15-23</u>		Time <u>1715</u>		Received by: (Signature) <u>[Signature]</u>					Date <u>6-15-23</u>		Time <u>1730</u>		T1 T2 T3		
Relinquished by: (Signature) <u>[Signature]</u>					Date <u>6-16-23</u>		Time <u>2400</u>		Received by: (Signature) <u>[Signature]</u>					Date <u>6/16/23</u>		Time <u>7:35</u>		AVG Temp °C <u>4</u>		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 12, 2024

GIO GOMEZ

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: WEST SHUGART 29 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/06/24 14:29.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL
GIO GOMEZ
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 06/06/2024
Reported: 06/12/2024
Project Name: WEST SHUGART 29 FEDERAL BATTERY
Project Number: 205-2
Project Location: DEVON

Sampling Date: 06/04/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 1 (0-4') (H243255-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2024	ND	1.98	99.0	2.00	2.94	
Toluene*	<0.050	0.050	06/08/2024	ND	2.11	106	2.00	1.48	
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	2.17	108	2.00	0.639	
Total Xylenes*	<0.150	0.150	06/08/2024	ND	6.67	111	6.00	0.574	
Total BTEx	<0.300	0.300	06/08/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/10/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	175	87.5	200	0.204	
DRO >C10-C28*	<10.0	10.0	06/07/2024	ND	190	94.9	200	6.38	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL
GIO GOMEZ
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 06/06/2024
Reported: 06/12/2024
Project Name: WEST SHUGART 29 FEDERAL BATTERY
Project Number: 205-2
Project Location: DEVON

Sampling Date: 06/04/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 2 (0-4') (H243255-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.98	99.0	2.00	2.94		
Toluene*	<0.050	0.050	06/08/2024	ND	2.11	106	2.00	1.48		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	2.17	108	2.00	0.639		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	6.67	111	6.00	0.574		
Total BTEx	<0.300	0.300	06/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/10/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2024	ND	175	87.5	200	0.204	
DRO >C10-C28*	<10.0	10.0	06/08/2024	ND	190	94.9	200	6.38	
EXT DRO >C28-C36	<10.0	10.0	06/08/2024	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL
GIO GOMEZ
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 06/06/2024
Reported: 06/12/2024
Project Name: WEST SHUGART 29 FEDERAL BATTERY
Project Number: 205-2
Project Location: DEVON

Sampling Date: 06/04/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 3 (0-4') (H243255-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.98	99.0	2.00	2.94		
Toluene*	<0.050	0.050	06/08/2024	ND	2.11	106	2.00	1.48		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	2.17	108	2.00	0.639		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	6.67	111	6.00	0.574		
Total BTEx	<0.300	0.300	06/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/10/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2024	ND	175	87.5	200	0.204	
DRO >C10-C28*	<10.0	10.0	06/08/2024	ND	190	94.9	200	6.38	
EXT DRO >C28-C36	<10.0	10.0	06/08/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL
GIO GOMEZ
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 06/06/2024
Reported: 06/12/2024
Project Name: WEST SHUGART 29 FEDERAL BATTERY
Project Number: 205-2
Project Location: DEVON

Sampling Date: 06/04/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 4 (0-4') (H243255-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.98	99.0	2.00	2.94		
Toluene*	<0.050	0.050	06/08/2024	ND	2.11	106	2.00	1.48		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	2.17	108	2.00	0.639		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	6.67	111	6.00	0.574		
Total BTEx	<0.300	0.300	06/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/10/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2024	ND	175	87.5	200	0.204	
DRO >C10-C28*	<10.0	10.0	06/08/2024	ND	190	94.9	200	6.38	
EXT DRO >C28-C36	<10.0	10.0	06/08/2024	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL
GIO GOMEZ
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 06/06/2024
Reported: 06/12/2024
Project Name: WEST SHUGART 29 FEDERAL BATTERY
Project Number: 205-2
Project Location: DEVON

Sampling Date: 06/04/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CW 1 (0-4') (H243255-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.98	99.0	2.00	2.94		
Toluene*	<0.050	0.050	06/08/2024	ND	2.11	106	2.00	1.48		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	2.17	108	2.00	0.639		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	6.67	111	6.00	0.574		
Total BTEx	<0.300	0.300	06/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2024	ND	175	87.5	200	0.204	
DRO >C10-C28*	<10.0	10.0	06/08/2024	ND	190	94.9	200	6.38	
EXT DRO >C28-C36	<10.0	10.0	06/08/2024	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL
GIO GOMEZ
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 06/06/2024
Reported: 06/12/2024
Project Name: WEST SHUGART 29 FEDERAL BATTERY
Project Number: 205-2
Project Location: DEVON

Sampling Date: 06/04/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CW 2 (0-4') (H243255-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.98	99.0	2.00	2.94		
Toluene*	<0.050	0.050	06/08/2024	ND	2.11	106	2.00	1.48		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	2.17	108	2.00	0.639		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	6.67	111	6.00	0.574		
Total BTEX	<0.300	0.300	06/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	193	96.6	200	0.952	
DRO >C10-C28*	<10.0	10.0	06/07/2024	ND	216	108	200	0.839	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL
GIO GOMEZ
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 06/06/2024
Reported: 06/12/2024
Project Name: WEST SHUGART 29 FEDERAL BATTERY
Project Number: 205-2
Project Location: DEVON

Sampling Date: 06/04/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CW 3 (0-4') (H243255-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.98	99.0	2.00	2.94		
Toluene*	<0.050	0.050	06/08/2024	ND	2.11	106	2.00	1.48		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	2.17	108	2.00	0.639		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	6.67	111	6.00	0.574		
Total BTEx	<0.300	0.300	06/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	193	96.6	200	0.952	
DRO >C10-C28*	<10.0	10.0	06/07/2024	ND	216	108	200	0.839	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL
GIO GOMEZ
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 06/06/2024
Reported: 06/12/2024
Project Name: WEST SHUGART 29 FEDERAL BATTERY
Project Number: 205-2
Project Location: DEVON

Sampling Date: 06/04/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CW 4 (0-4') (H243255-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.98	99.0	2.00	2.94		
Toluene*	<0.050	0.050	06/08/2024	ND	2.11	106	2.00	1.48		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	2.17	108	2.00	0.639		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	6.67	111	6.00	0.574		
Total BTEx	<0.300	0.300	06/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	193	96.6	200	0.952	
DRO >C10-C28*	<10.0	10.0	06/07/2024	ND	216	108	200	0.839	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL
GIO GOMEZ
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 06/06/2024
Reported: 06/12/2024
Project Name: WEST SHUGART 29 FEDERAL BATTERY
Project Number: 205-2
Project Location: DEVON

Sampling Date: 06/04/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: DW 1 (0-4') (H243255-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.98	99.0	2.00	2.94		
Toluene*	<0.050	0.050	06/08/2024	ND	2.11	106	2.00	1.48		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	2.17	108	2.00	0.639		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	6.67	111	6.00	0.574		
Total BTEX	<0.300	0.300	06/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	193	96.6	200	0.952	
DRO >C10-C28*	<10.0	10.0	06/07/2024	ND	216	108	200	0.839	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL
GIO GOMEZ
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 06/06/2024
Reported: 06/12/2024
Project Name: WEST SHUGART 29 FEDERAL BATTERY
Project Number: 205-2
Project Location: DEVON

Sampling Date: 06/04/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: DW 2 (0-4') (H243255-10)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.98	99.0	2.00	2.94		
Toluene*	<0.050	0.050	06/08/2024	ND	2.11	106	2.00	1.48		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	2.17	108	2.00	0.639		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	6.67	111	6.00	0.574		
Total BTEX	<0.300	0.300	06/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	193	96.6	200	0.952	
DRO >C10-C28*	<10.0	10.0	06/07/2024	ND	216	108	200	0.839	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL
GIO GOMEZ
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 06/06/2024
Reported: 06/12/2024
Project Name: WEST SHUGART 29 FEDERAL BATTERY
Project Number: 205-2
Project Location: DEVON

Sampling Date: 06/04/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: DW 3 (0-4') (H243255-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.98	99.0	2.00	2.94		
Toluene*	<0.050	0.050	06/08/2024	ND	2.11	106	2.00	1.48		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	2.17	108	2.00	0.639		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	6.67	111	6.00	0.574		
Total BTEx	<0.300	0.300	06/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	193	96.6	200	0.952	
DRO >C10-C28*	<10.0	10.0	06/07/2024	ND	216	108	200	0.839	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL
GIO GOMEZ
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 06/06/2024
Reported: 06/12/2024
Project Name: WEST SHUGART 29 FEDERAL BATTERY
Project Number: 205-2
Project Location: DEVON

Sampling Date: 06/04/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: DW 4 (0-4') (H243255-12)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2024	ND	1.98	99.0	2.00	2.94	
Toluene*	<0.050	0.050	06/08/2024	ND	2.11	106	2.00	1.48	
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	2.17	108	2.00	0.639	
Total Xylenes*	<0.150	0.150	06/08/2024	ND	6.67	111	6.00	0.574	
Total BTX	<0.300	0.300	06/08/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/10/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	193	96.6	200	0.952	
DRO >C10-C28*	<10.0	10.0	06/07/2024	ND	216	108	200	0.839	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL
GIO GOMEZ
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 06/06/2024
Reported: 06/12/2024
Project Name: WEST SHUGART 29 FEDERAL BATTERY
Project Number: 205-2
Project Location: DEVON

Sampling Date: 06/04/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: EW 1 (0-4') (H243255-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2024	ND	1.98	99.0	2.00	2.94	
Toluene*	<0.050	0.050	06/08/2024	ND	2.11	106	2.00	1.48	
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	2.17	108	2.00	0.639	
Total Xylenes*	<0.150	0.150	06/08/2024	ND	6.67	111	6.00	0.574	
Total BTEX	<0.300	0.300	06/08/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/10/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	193	96.6	200	0.952	
DRO >C10-C28*	<10.0	10.0	06/07/2024	ND	216	108	200	0.839	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL
GIO GOMEZ
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 06/06/2024
Reported: 06/12/2024
Project Name: WEST SHUGART 29 FEDERAL BATTERY
Project Number: 205-2
Project Location: DEVON

Sampling Date: 06/04/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: EW 2 (0-4') (H243255-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.98	99.0	2.00	2.94		
Toluene*	<0.050	0.050	06/08/2024	ND	2.11	106	2.00	1.48		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	2.17	108	2.00	0.639		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	6.67	111	6.00	0.574		
Total BTEX	<0.300	0.300	06/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	193	96.6	200	0.952	
DRO >C10-C28*	<10.0	10.0	06/07/2024	ND	216	108	200	0.839	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL
GIO GOMEZ
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 06/06/2024
Reported: 06/12/2024
Project Name: WEST SHUGART 29 FEDERAL BATTERY
Project Number: 205-2
Project Location: DEVON

Sampling Date: 06/04/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: EW 3 (0-4') (H243255-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.98	99.0	2.00	2.94		
Toluene*	<0.050	0.050	06/08/2024	ND	2.11	106	2.00	1.48		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	2.17	108	2.00	0.639		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	6.67	111	6.00	0.574		
Total BTEx	<0.300	0.300	06/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	193	96.6	200	0.952	
DRO >C10-C28*	<10.0	10.0	06/07/2024	ND	216	108	200	0.839	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL
GIO GOMEZ
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 06/06/2024
Reported: 06/12/2024
Project Name: WEST SHUGART 29 FEDERAL BATTERY
Project Number: 205-2
Project Location: DEVON

Sampling Date: 06/04/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: EW 4 (0-4') (H243255-16)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.98	99.0	2.00	2.94		
Toluene*	<0.050	0.050	06/08/2024	ND	2.11	106	2.00	1.48		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	2.17	108	2.00	0.639		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	6.67	111	6.00	0.574		
Total BTEX	<0.300	0.300	06/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	193	96.6	200	0.952	
DRO >C10-C28*	<10.0	10.0	06/07/2024	ND	216	108	200	0.839	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Pima Environmental Services				BILL TO				ANALYSIS REQUEST																			
Project Manager: Gio Gomez				P.O. #:																							
Address: 5614 N. Lovington Hwy				Company: Devon																							
City: Hobbs State: NM Zip: 88240				Attn:																							
Phone #: 575-964-7740 Fax #:				Address:																							
Project #: 205-2 Project Owner: Devon				City:																							
Project Name: West Shugart 29 Federal Battery				State: Zip:																							
Project Location:				Phone #:																							
Sampler Name:				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING														
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :													DATE
H243219		55 Row 24		G			X					X		6/4/24	8:20	X	X	X									
+1		SW1 (0-4')													8:31												
+2		SW2 (0-4')													8:39												
+3		SW3 (0-4')													8:46												
+4		SW4 (0-4')													8:51												
+5		CW1 (0-4')													8:54												
+6		CW2 (0-4')													9:07												
+7		CW3 (0-4')													9:17												
+8		CW4 (0-4')													9:23												
+9		DW1 (0-4')													9:34												
2070		DW2 (0-4')																									
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																											
Relinquished By: Karime Adame				Date: 6/24/24		Received By: S. Rodriguez				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:													
				Time: 1429						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:													
Relinquished By:				Date:		Received By:				REMARKS: Standard																	
				Time:						tom@pimaoil.com																	
Delivered By: (Circle One)				-3.8						Sample Condition				CHECKED BY: (Initials)													
Sampler - UPS - Bus - Other:				#140						Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>				SR													
										Yes <input type="checkbox"/> No <input type="checkbox"/>																	
														Billing # 21165881													

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Pima Environmental Services				BILL TO				ANALYSIS REQUEST											
Project Manager: Gio Gomez				P.O. #:				<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> </div>											
Address: 5614 N. Lovington Hwy				Company: <u>Devon</u>															
City: Hobbs State: NM Zip: 88240				Attn:															
Phone #: 575-964-7740 Fax #:				Address:															
Project #: <u>205-2</u> Project Owner: <u>Devon</u>				City:															
Project Name: <u>West Shugart 29 Federal Battery</u>				State: Zip:															
Project Location:				Phone #:															
Sampler Name:				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		# CONTAINERS	MATRIX					PRESERV.	SAMPLING								
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL				OTHER :	DATE	TIME	
<u>11</u>	<u>55</u>	<u>82</u>	<u>6-16-24</u>	<u>5</u>			X				X		<u>6/14/24</u>	<u>9:46</u>	X	X	X		
<u>22</u>			<u>DW4 (0-4')</u>				X							<u>9:53</u>					
<u>23</u>			<u>EW1 (0-4')</u>											<u>10:11</u>					
<u>24</u>			<u>EW2 (0-4')</u>											<u>10:17</u>					
<u>25</u>			<u>EW3 (0-4')</u>											<u>10:28</u>					
<u>26</u>			<u>EW4 (0-4')</u>											<u>10:31</u>					

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>Karime Adame</u>		Date: <u>6-16-24</u> Time: <u>1428</u>	Received By: <u>S. Woodrigney</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:		Date:	Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)		Sample Condition		CHECKED BY: <u>88</u>	REMARKS: <u>Standard</u>	
Sampler - UPS - Bus - Other: <u>-3-8-#140</u>		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Tom@pimaoil.com Billing # <u>21165881</u>		

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

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QUESTIONS

Action 406698

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 406698
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1808253927
Incident Name	NAB1808253927 WEST SHUGART 29 FEDERAL #001 @ 30-015-29948
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-29948] WEST SHUGART 29 FEDERAL #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	WEST SHUGART 29 FEDERAL #001
Date Release Discovered	03/11/2018
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water 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	Not answered.
Produced Water Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. Water Tank Produced Water Released: 9 BBL Recovered: 5 BBL Lost: 4 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
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 406698

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
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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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dnv.com Date: 11/26/2024
----------------------------------------------------	----------------------------------------------------------------------------------------------

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QUESTIONS, Page 3

Action 406698

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 406698
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 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)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
<i>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.</i>	
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)	2470
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	33251
GRO+DRO (EPA SW-846 Method 8015M)	23927
BTEX (EPA SW-846 Method 8021B or 8260B)	14
Benzene (EPA SW-846 Method 8021B or 8260B)	0.5

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	08/05/2024
On what date will (or did) the final sampling or liner inspection occur	02/01/2025
On what date will (or was) the remediation complete(d)	02/01/2025
What is the estimated surface area (in square feet) that will be reclaimed	890
What is the estimated volume (in cubic yards) that will be reclaimed	168
What is the estimated surface area (in square feet) that will be remediated	1600
What is the estimated volume (in cubic yards) that will be remediated	296

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 406698

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 406698
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
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: James Raley Title: EHS Professional Email: jim.raley@dv.com Date: 11/26/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 406698

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 406698
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 406698

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 406698
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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

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CONDITIONS

Action 406698

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 406698
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation plan conditionally approved.	12/10/2024
bhall	OCD approves the dig and haul remediation plan but based on the age of the data, OCD will not approve the proposed excavation areas and proposed depths found on the included Site map. All areas that are required to be remediated must meet the most stringent closure criteria found on Table I of 19.15.29 NMAC.	12/10/2024
bhall	The areas in the pasture must be reclaimed at time of remediation. A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	12/10/2024
bhall	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. The 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.	12/10/2024
bhall	The areas in the pasture must be revegetated as early as practicable. A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	12/10/2024
bhall	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	12/10/2024
bhall	Be advised, this approval is specifically for nAB1808253927 and does not apply to nAPP2313055690.	12/10/2024
bhall	Submit a complete and accurate report through the OCD permitting website by 3/10/2025.	12/10/2024