



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

February 13, 2023

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

Re: Variance Report Request
LVP LINE 975 FEET WEST OF LONGVIEW FED 6#11
API No. N/A
GPS: Latitude 32.40660 Longitude -104.03297
UL -A, Sec. 1, T23S, R28E
Eddy County, NM
NMOCD Ref. No. NAPP2221329700

Pima Environmental Services, LLC. (Pima) has been contracted by Devon Energy Production Company. (Devon) to submit this variance report for a produced water release that occurred at the LVP Line 975 Feet West of Longview Fed 6 #11 (LVP). The initial C-141 was submitted on August 2, 2022 (Appendix C). This incident was assigned Incident ID NAPP2221329700, by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The LVP LINE 975 FEET WEST OF LONGVIEW FED 6#11 is located approximately 5.2 miles northeast of Loving, NM. This spill site is in Unit A, Section 1, Township 23S, Range 28E, Latitude 32.40660 Longitude -104.03297, Eddy County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is made up of older alluvium deposits of upland plains and piedmont areas, and calcic soils and eolian cover sediments of high plains region. The soil in this area is made up of Simona-Bippus complex, 0 to 5 percent slopes and Potter-Simona complex, 5 to 25 percent slope according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well-drained. There is a medium potential for Karst geology to be present around the Shelby (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is > 50 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 128 feet BGS. The closest waterway is the Pecos River located approximately 1.60 miles to the southwest of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29

Depth to Groundwater (Appendix A)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
<50'	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg
51-100'	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
>100'	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg

Reference Figure 2 for a Topographic Map.

Release Information

NAPP2221329700: On July 31, 2022, a leak occurred when a four-inch poly pipeline sprung a leak. The total volume of fluid released was calculated to be approximately 27.4 barrels (bbls) of produced water. A vacuum truck was able to recover approximately 5 bbls of total fluid.

Site Assessment and Soil Sampling Results

On August 30 and September 13, 2022, Pima mobilized personnel to the site to assess the area. A Site Map can be found in Figure 4. We sampled the impacted areas. Laboratory results of this sampling event can be found in the following data table.

8-30-22 and 9-13-22 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')									
DEVON ENERGY - LVP LINE W OF LONGVIEW FED 6 #11									
NM Approved Laboratory Results									
Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S-1	8/30/2022	1'	ND	ND	ND	ND	ND	0	16300
	9/13/2022	4'	ND	ND	ND	ND	ND	0	17800
	9/13/2022	5'	ND	ND	ND	ND	ND	0	229
	9/13/2022	6'	ND	ND	ND	ND	ND	0	ND
S-2	8/30/2022	1'	ND	ND	ND	ND	ND	0	25300
	9/13/2022	2.5'	ND	ND	ND	ND	ND	0	72.7
S-3	8/30/2022	1'	ND	ND	ND	ND	ND	0	22500
	9/13/2022	1'	ND	ND	ND	ND	ND	0	12900
S-4	9/13/2022	2'	ND	ND	ND	ND	0	0	829
	9/13/2022	3'	ND	ND	ND	ND	0	0	17700
	8/30/2022	1'	ND	ND	ND	ND	ND	0	25700
S-5	8/30/2022	1'	ND	ND	ND	ND	ND	0	7110
	9/13/2022	3'	ND	ND	ND	ND	ND	0	231
	9/13/2022	4'	ND	ND	ND	ND	ND	0	ND
S-6	8/30/2022	1'	ND	ND	ND	ND	ND	0	12300
	9/13/2022	1'	ND	ND	ND	ND	ND	0	14100
S-7	9/13/2022	2'	ND	ND	ND	ND	ND	0	2720
	9/13/2022	3'	ND	ND	ND	ND	ND	0	ND
	9/13/2022	4'	ND	ND	ND	ND	ND	0	1230
S-8	9/13/2022	5'	ND	ND	ND	ND	ND	0	630
	9/13/2022	6'	ND	ND	ND	ND	ND	0	ND
	9/13/2022	3'	ND	ND	ND	ND	ND	0	31100
S-9	9/13/2022	4'	ND	ND	ND	ND	ND	0	18900
	9/13/2022	5'	ND	ND	ND	ND	ND	0	2180
	9/13/2022	5'	ND	ND	ND	ND	ND	0	116
S-10	9/13/2022	6'	ND	ND	ND	ND	ND	0	189
	9/13/2022	8'	ND	ND	ND	ND	ND	0	198
S-11	9/13/2022	5'	ND	ND	ND	ND	ND	0	ND
	9/13/2022	5'	ND	ND	ND	ND	ND	0	ND
SW 1	8/30/2022	0-6"	ND	ND	ND	ND	ND	0	ND
SW 2	8/30/2022	0-6"	ND	ND	ND	ND	ND	0	30.3
SW 3	8/30/2022	0-6"	ND	ND	ND	ND	ND	0	ND
SW 4	8/30/2022	0-6"	ND	ND	ND	ND	ND	0	ND
SW 5	8/30/2022	0-6"	ND	ND	ND	ND	ND	0	ND
SW 6	8/30/2022	0-6"	ND	ND	ND	ND	ND	0	130
SW 7	8/30/2022	0-6"	ND	ND	ND	ND	ND	0	505
SW 8	8/30/2022	0-6"	ND	ND	ND	ND	ND	0	211
SW 9	8/30/2022	0-6"	ND	ND	ND	ND	ND	0	238
SW 10	8/30/2022	0-6"	ND	ND	ND	ND	ND	0	ND
SW 11	8/30/2022	0-6"	ND	ND	ND	ND	ND	0	ND
SW 12	8/30/2022	0-6"	ND	ND	ND	ND	ND	0	ND
SW 13	8/30/2022	0-6"	ND	ND	ND	ND	ND	0	ND
SW 14	8/30/2022	0-6"	ND	ND	ND	ND	ND	0	ND
SW 15	8/30/2022	0-6"	ND	ND	ND	ND	ND	0	ND
SW 16	8/30/2022	0-6"	ND	ND	ND	ND	ND	0	ND
SW 17	8/30/2022	0-6"	ND	ND	ND	ND	ND	0	ND
SW 18	8/30/2022	0-6"	ND	ND	ND	ND	ND	0	ND
SW 19	8/30/2022	0-6"	ND	ND	ND	ND	ND	0	20.3
SW 20	8/30/2022	0-6"	ND	ND	ND	ND	ND	0	ND
SW 21	8/30/2022	0-6"	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

Remediation Activities

Pima personnel recommends the horizontal and vertical delineation of the impacted area has been achieved. Based on the proximity of the release to active lines, Devon or a third-party operator may require additional safety precautions above encroachment guidelines, including restrictions on hand shoveling and cribbing. At a minimum, two feet from the produced water lines is the required excavation buffer to avoid line damage. Soils that fall within this buffer will remain in place.

Confirmation samples will be collected once the bottom and sidewalls reach levels below NMOCD Closure Criteria 19.15.29 NMAC. The contaminated material will be transported to Lea Land, an NMOCD approved disposal site. The excavation will then be backfilled with clean material, machine compacted and contoured to match the surrounding terrain. A proposed Confirmation Map can be found in Figure 5.

Variance Request

Based on the large area associated with the LVP LINE 975 FEET WEST OF LONGVIEW FED 6 #11 Release, Devon Energy would like to request a variance regarding the amount of confirmation samples required for closure. The current release area is approximately 50,500 feet squared, requiring 252 confirmation samples, following the 200 square foot rule. We believe we can obtain an accurate representation of the remediated area collecting confirmation samples every 500 square feet.

The corrective actions will be completed within 90 days of receipt of approval of this proposal by the NMOCD. Upon completion of the proposed tasks, a "Remediation Summary & Closure Request" will be submitted, documenting remediation activities and results of confirmation soil samples.

Should you have any questions or need additional information, please feel free to contact Gio Gomez at 575-964-7740 or gio@pimaoil.com.

Respectfully,

Gio Gomez

Gio Gomez
Project Manager
Pima Environmental Services, LLC

Attachments

Figures:

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

Appendices:

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



Pima Environmental Services

Figures:

1-Location Map

2-Topographic Map

3-Karst Map

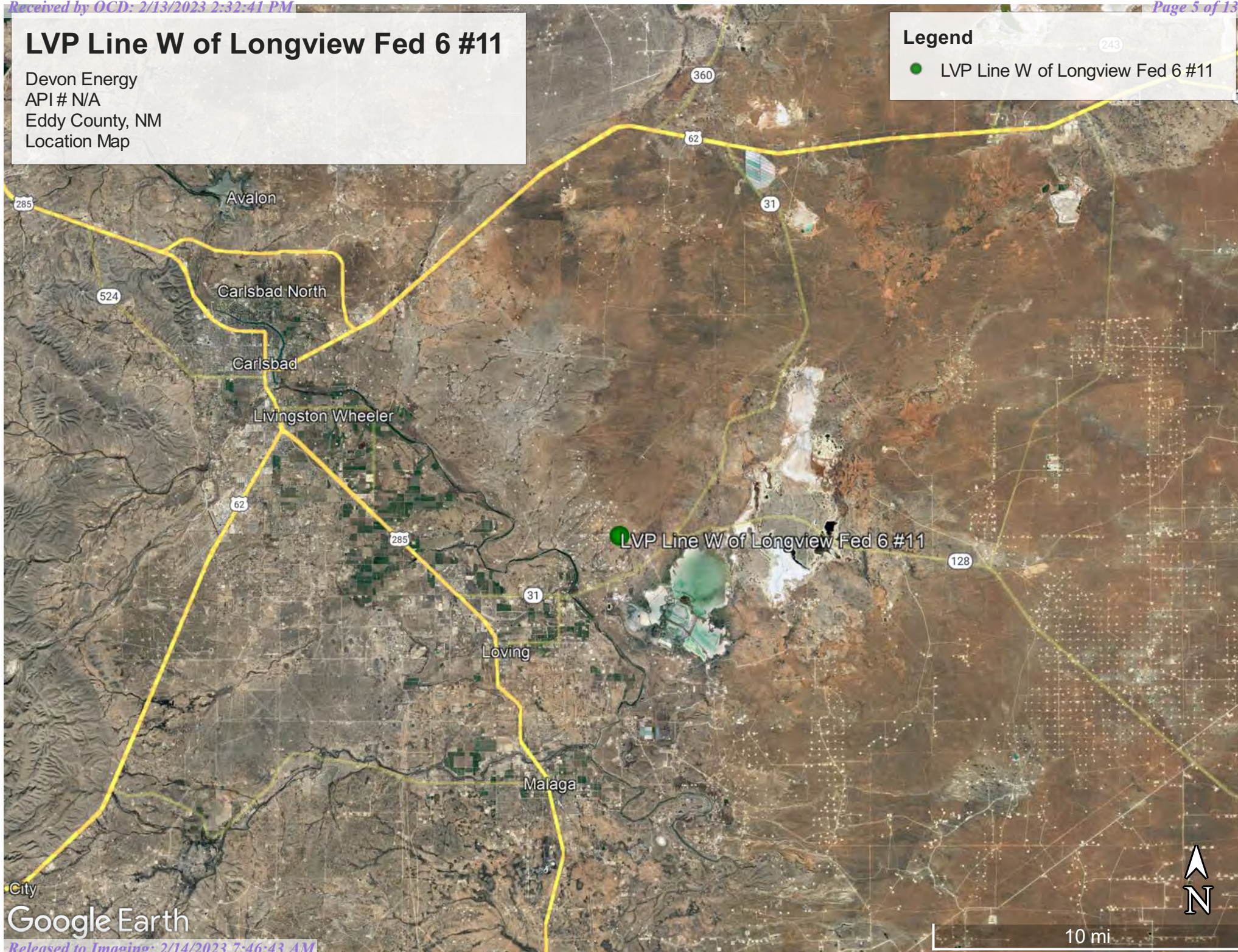
4-Site Map

LVP Line W of Longview Fed 6 #11

Devon Energy
API # N/A
Eddy County, NM
Location Map

Legend

● LVP Line W of Longview Fed 6 #11



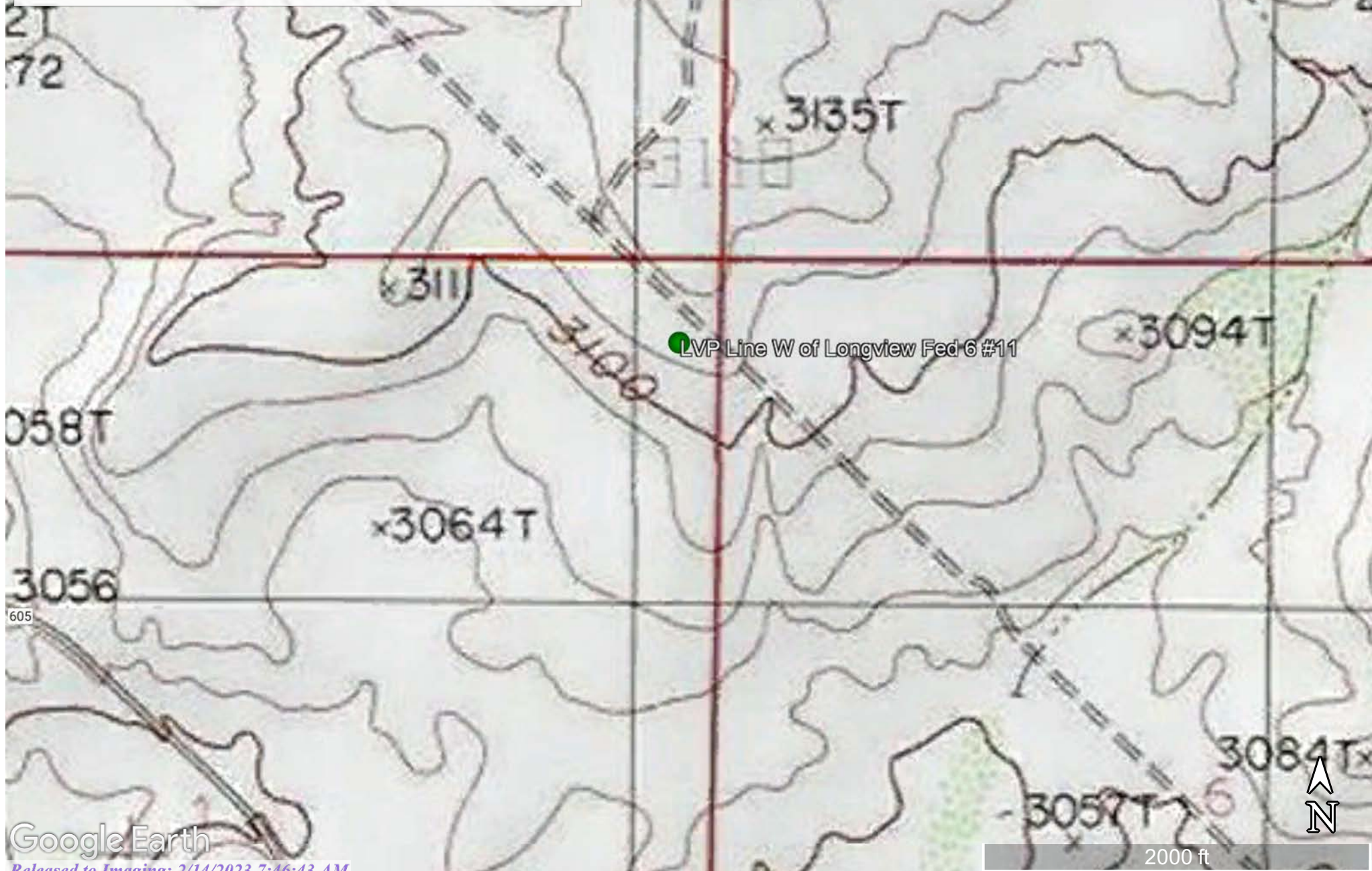
Google Earth

LVP Line W of Longview Fed 6 #11

Devon Energy
API # N/A
Eddy County, NM
Topographic Map

Legend

- LVP Line W of Longview Fed 6 #11



LVP Line W of Longview Fed 6 #11

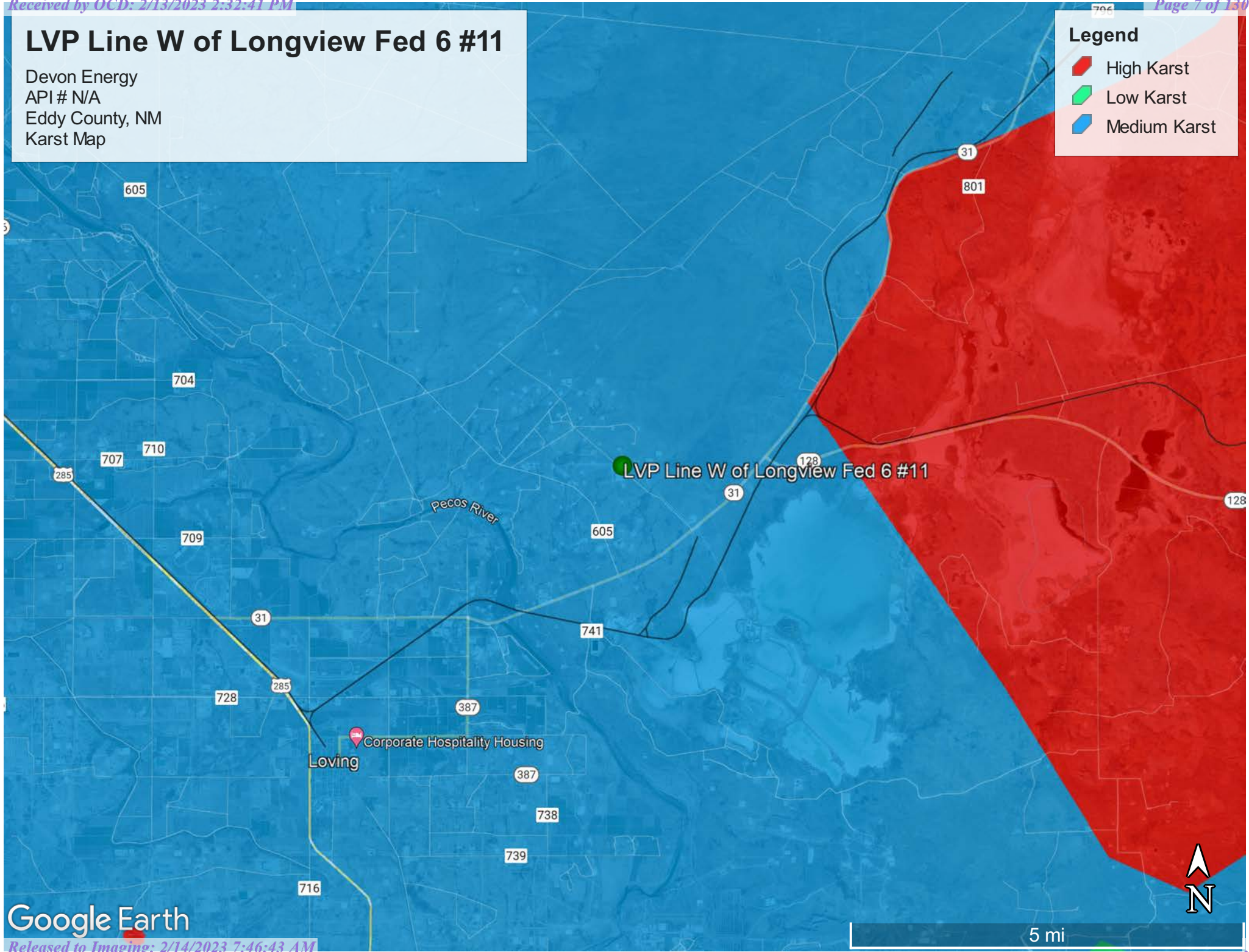
Devon Energy
API # N/A
Eddy County, NM
Karst Map

Legend

High Karst

Low Karst




Medium Karst



LVP Line W of Longview Fed 6 #11

Devon Energy
API # N/A
Eddy County, NM
Site Map

Legend

-  Sidewall Samples
-  Spill Trail-28,500sqft
-  Vertical Samples





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Appendix A

Water Surveys:

OSE

USGS

Surface Water Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_04539 POD1		CUB	ED	2	4	2	01	23S	28E	591034	3578223	273	55		
C_04524 POD1		CUB	ED	1	1	2	01	23S	28E	590452	3578629	460	55		
C_04609 POD1		CUB	ED	2	1	1	01	23S	28E	589816	3578589	1067	51		
C_04417 POD1		CUB	ED	4	3	3	36	22S	28E	589736	3578874	1216	55		
C_04418 POD1		CUB	ED	4	2	1	12	23S	28E	590104	3576851	1770	55		
C_04470 POD1		CUB	ED	3	1	3	07	23S	29E	591280	3576086	2393			
C_04584 POD1		CUB	ED	3	1	4	12	23S	28E	590392	3576064	2429	63		
C_02804		CUB	ED	2	1	08	23S	29E	593262	3576905*	2841	100			
C_02805		CUB	ED	2	1	08	23S	29E	593262	3576905*	2841	100			

Average Depth to Water:

--

Minimum Depth:

--

Maximum Depth:

--

Record Count: 9

UTMNAD83 Radius Search (in meters):

Easting (X): 590874.15

Northing (Y): 3578444.86

Radius: 3000

*UTM location was derived from PLSS - see Help

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

8/25/22 1:40 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

OSE POD Locations Map



2/13/2023, 7:49:29 AM

GIS WATERS PODs

- Active
- Plugged

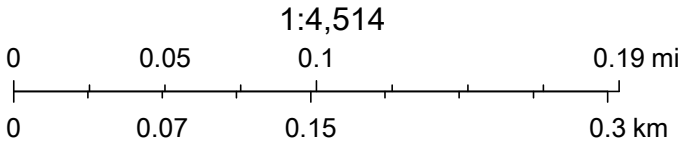
OSE District Boundary

- New Mexico State Trust Lands
- Both Estates

NHD Flowlines

- Stream River
- SiteBoundaries

Spill Path




Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar



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	Tw	Rng	X	Y	
NA	C 04539 POD1	2	4	2	01	23S	28E	591034	3578223 	
<hr/>										
Driller License:		1186		Driller Company:			ENVIRO-DRILL, INC.			
Driller Name:		HAMMER, RODNEY S.WARDENER								
Drill Start Date:		07/14/2021		Drill Finish Date:			07/14/2021		Plug Date:	07/14/2021
Log File Date:		10/05/2021		PCW Rev Date:			Source:			
Pump Type:					Pipe Discharge Size:			Estimated Yield:		
Casing Size:		2.00		Depth Well:			55 feet		Depth Water:	
<hr/>										
Casing Perforations:					Top	Bottom				
					45	55				
<hr/>										

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8/25/22 1:41 PM

POINT OF DIVERSION SUMMARY



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE ENGINEERS OFFICE
2021 OCT -5 PM 3:41

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-4539 BH01		WSP 185		WELL TAG ID NO. NA	OSE FILE NO(S) C-4539		
	WELL OWNER NAME(S) JDEVON ENERGY CORPORATION - JIM RALEY(AGENT)					PHONE (OPTIONAL) 575-689-7597 (CELL)		
	WELL OWNER MAILING ADDRESS 5315 BUENA VISTA DRIVE					CITY CARLSBAD	STATE NM	
						ZIP 88210		
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 33	SECONDS 71.97	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE -104	03	26.81	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SITE LOCATED AT 32.337197, -104.032681, EDDY COUNTY, NEW MEXICO								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD 1186		NAME OF LICENSED DRILLER RODNEY HAMMER			NAME OF WELL DRILLING COMPANY ENVIRO-DRILL, INC.		
	DRILLING STARTED 07/14/21	DRILLING ENDED 07/14/21	DEPTH OF COMPLETED WELL (FT) 55'	BORE HOLE DEPTH (FT) 55'	DEPTH WATER FIRST ENCOUNTERED (FT) dry			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)						STATIC WATER LEVEL IN COMPLETED WELL (FT)	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD <input type="checkbox"/> ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	55	45	8"	screen	sch 40	2"	2"	.010
	45	0	8"	Blank	FTT			
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	55	43	8"	Sand 10/20	10	trammed		
	43	41	8"	Hole Plug	1.5	*		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO. C-4539	POD NO. 1	TRN NO. 695967
LOCATION 235.28E.1.242	WELL TAG ID NO.	PAGE 1 OF 2

STATE ENGINEERS OFFICE
2001 OCT -5 PM 3:41

Released to Imaging: 2/14/2023 7:46:43 AM



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
NA	C 04524 POD1	1	1	2	01	23S	28E	590452	3578629

Driller License: 1456 **Driller Company:** WHITE DRILLING COMPANY

Driller Name: NOVO OIL & GAS NORTHERN DELAWARE LLC

Drill Start Date: 04/13/2021 **Drill Finish Date:** 04/14/2021 **Plug Date:**

Log File Date: 05/10/2021 **PCW Rev Date:** **Source:**

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: **Depth Well:** 55 feet **Depth Water:**

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

8/25/22 1:42 PM

POINT OF DIVERSION SUMMARY



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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OSE DJT MAY 10 2021 14:03

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-4524POD1 (SB-1)		WELL TAG ID NO.		OSE FILE NO(S). C-4524		
	WELL OWNER NAME(S) Novo Oil & Gas Northern Delaware, LLC				PHONE (OPTIONAL) 405-286-3916		
	WELL OWNER MAILING ADDRESS 1001 W. Wilshire Blvd. Suite 206				CITY Oklahoma City	STATE OK	ZIP 73116
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 20	SECONDS 27.26 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE 104	2	19.79 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE T23S, Rng: R38E, Sec: 1, Qtr: NE							
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1456		NAME OF LICENSED DRILLER John White			NAME OF WELL DRILLING COMPANY White Drilling Company, Inc.	
	DRILLING STARTED 04/13/2021	DRILLING ENDED 4/14/2021	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT) 55	DEPTH WATER FIRST ENCOUNTERED (FT) Dry		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) Dry		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:						
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO. C-4524	POD NO.	TRN NO. 691333
LOCATION 121 T23S R28E Sec 1	WELL TAG ID NO. NA	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

5. TEST; RIG SUPERVISION

6. SIGNATURE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	C-4524	POD NO.	1
LOCATION		TRN NO.	691333
12-1 T23S R28E Sec 1		WELL TAG ID NO.	N/A
		PAGE 2 OF 2	

John R. D Antonio, Jr., P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 691333
File Nbr: C 04524
Well File Nbr: C 04524 POD1

May. 12, 2021

BRYAN HANEY
ALTAMIRA-US LLC
14229 PUNTA BONAIRE
CORPUS CHRISTI, TX 78416

Greetings:

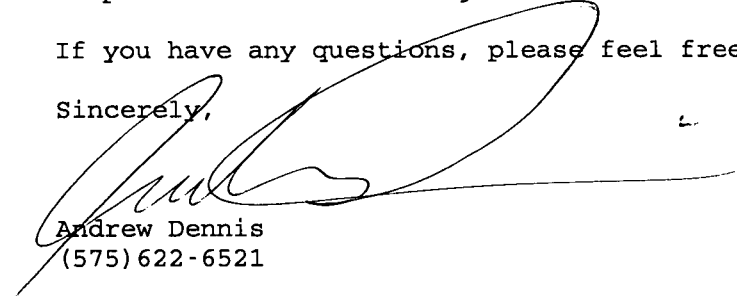
The above numbered permit was issued in your name on 04/13/2021.

The Well Record was received in this office on 05/10/2021, stating that it had been completed on 04/14/2021, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 04/02/2022.

If you have any questions, please feel free to contact us.

Sincerely,



Andrew Dennis
(575) 622-6521

drywell



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for the Nation

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

Search Results -- 1 sites found

site_no list =

- 322547104035001

Minimum number of levels = 1

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

USGS 322547104035001 22S.28E.02.11111

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°25'47", Longitude 104°03'50" NAD27

Land-surface elevation 3,162 feet above NAVD88

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

This well is completed in the Rustler Formation (312RSLR) local aquifer.

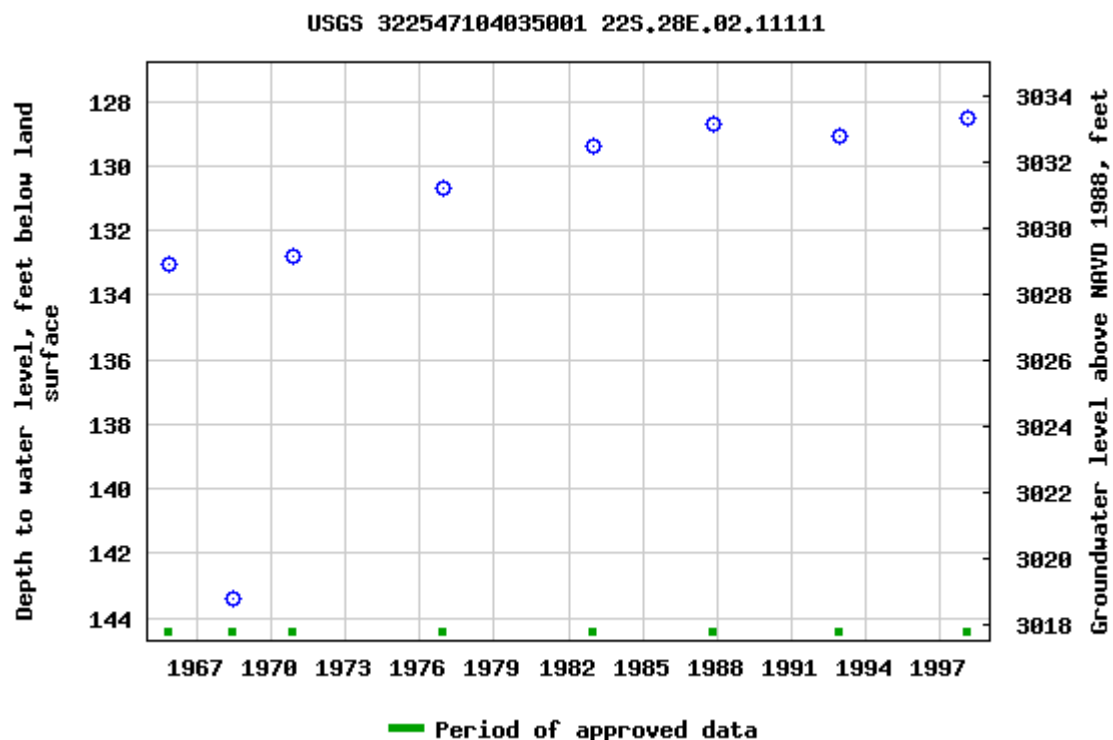
Output formats

[Table of data](#)

[Tab-separated data](#)

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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: 2022-08-02 17:09:30 EDT

0.54 0.47 nadww02

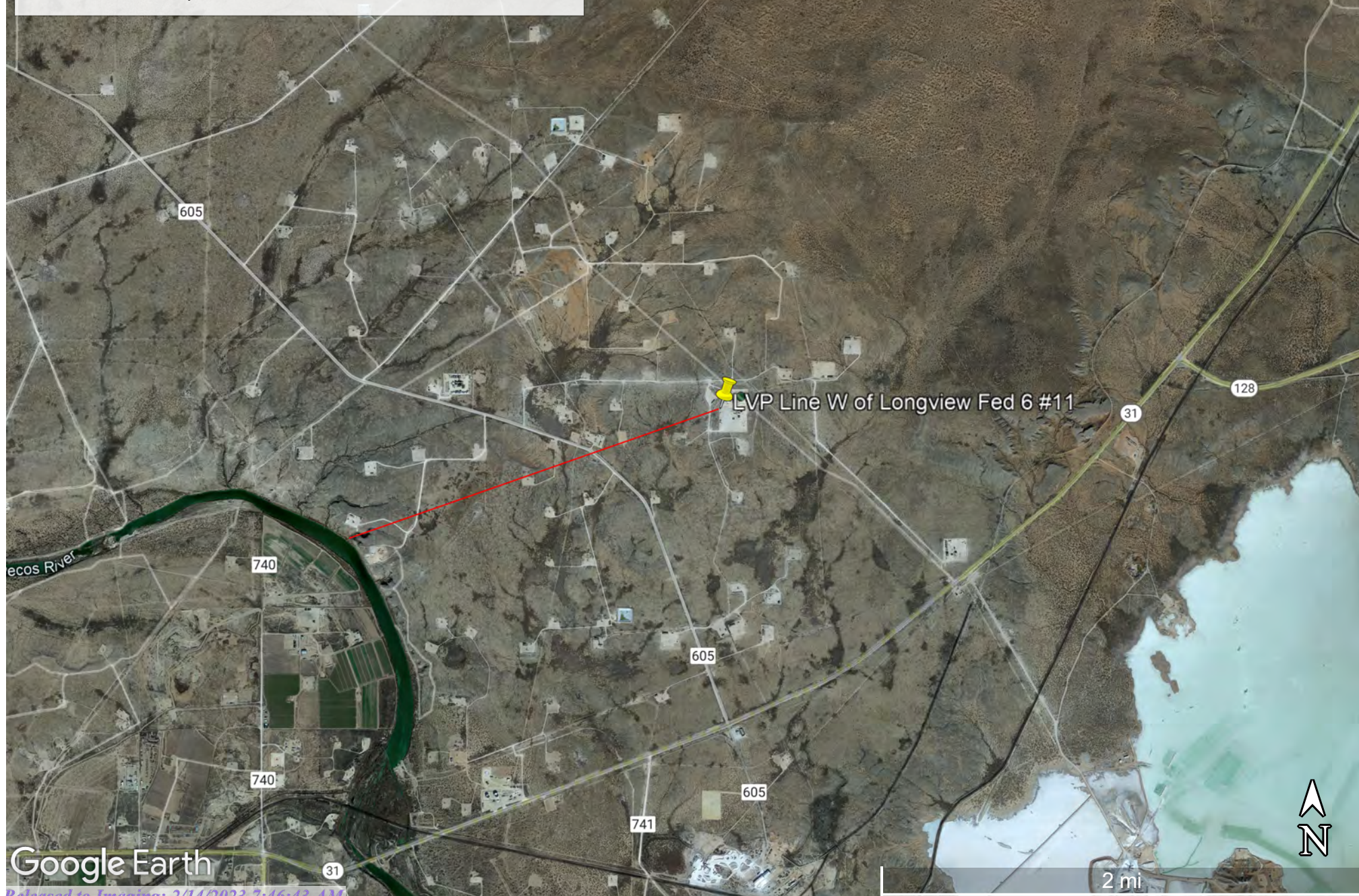


LVP Line W of Longview Fed 6 #11

Devon Energy
API: N/A
Eddy County, NM
Surface Water Map

Legend

- 1.62 Miles
- LVP Line W of Longview Fed 6 #11





Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

Map Unit Description: Potter-Simona complex, 5 to 25 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

PS—Potter-Simona complex, 5 to 25 percent slopes

Map Unit Setting

National map unit symbol: 1w57

Elevation: 2,750 to 5,000 feet

Mean annual precipitation: 8 to 16 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 230 days

Farmland classification: Not prime farmland

Map Unit Composition

Potter and similar soils: 80 percent

Simona and similar soils: 15 percent

Minor components: 5 percent

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

Description of Potter

Setting

Landform: Ridges, hills

Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope

Landform position (three-dimensional): Side slope, crest, nose slope, head slope

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Alluvium

Typical profile

H1 - 0 to 10 inches: gravelly loam

H2 - 10 to 60 inches: cemented material

Properties and qualities

Slope: 5 to 25 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 60 percent

Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.2 inches)

Map Unit Description: Potter-Simona complex, 5 to 25 percent slopes---Eddy Area, New Mexico

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R042XC025NM - Shallow

Hydric soil rating: No

Description of Simona

Setting

Landform: Plains, alluvial fans

Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 11 inches: gravelly fine sandy loam

H2 - 11 to 19 inches: gravelly fine sandy loam

H3 - 19 to 60 inches: cemented material

Properties and qualities

Slope: 5 to 10 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

Drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

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

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 2.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: D

Ecological site: R042XC002NM - Shallow Sandy

Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 3 percent

Ecological site: R042XC002NM - Shallow Sandy

Hydric soil rating: No

Rock outcrop

Percent of map unit: 2 percent

Map Unit Description: Potter-Simona complex, 5 to 25 percent slopes---Eddy Area, New Mexico

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 17, Sep 12, 2021

Map Unit Description: Simona-Bippus complex, 0 to 5 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

SM—Simona-Bippus complex, 0 to 5 percent slopes

Map Unit Setting

National map unit symbol: 1w5x

Elevation: 1,800 to 5,000 feet

Mean annual precipitation: 8 to 24 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 230 days

Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 55 percent

Bippus and similar soils: 30 percent

Minor components: 15 percent

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

Description of Simona

Setting

Landform: Plains, alluvial fans

Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 19 inches: gravelly fine sandy loam

H2 - 19 to 23 inches: indurated

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

Drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

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

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 2.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: D

Map Unit Description: Simona-Bippus complex, 0 to 5 percent slopes---Eddy Area, New Mexico

Ecological site: R042XC002NM - Shallow Sandy
Hydric soil rating: No

Description of Bippus

Setting

Landform: Flood plains, alluvial fans
Landform position (three-dimensional): Talf, rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Mixed alluvium

Typical profile

H1 - 0 to 37 inches: silty clay loam
H2 - 37 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very 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: OccasionalNone
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.7 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: B
Ecological site: R042XC017NM - Bottomland
Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 8 percent
Ecological site: R042XC002NM - Shallow Sandy
Hydric soil rating: No

Bippus

Percent of map unit: 7 percent
Ecological site: R042XC017NM - Bottomland

Map Unit Description: Simona-Bippus complex, 0 to 5 percent slopes---Eddy Area, New Mexico

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 17, Sep 12, 2021

National Flood Hazard Layer FIRMette



104°2'19"W 32°20'41"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000 104°1'41"W 32°20'11"N

Released to Imaging: 2/14/2023 9:46:43 AM

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

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
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

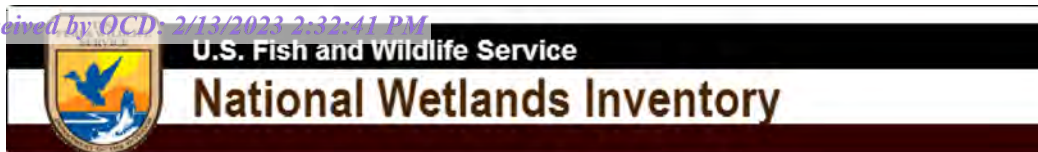


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/25/2022 at 4:01 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



Wetlands Map



October 14, 2022

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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



Pima Environmental Services

Appendix C

C-141 Form

NMOCD Correspondence

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	nAPP2221329700
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Dale Woodall	Contact Telephone 405-318-4697
Contact email dale.woodall@dvn.com	Incident # (assigned by OCD) nAPP2221329700
Contact mailing address 6488 Seven Rivers Hwy Artesia, NM 88210	

Location of Release Source

Latitude 32.40660 Longitude -104.03297
(NAD 83 in decimal degrees to 5 decimal places)

Site Name LVP LINE 975 FEET WEST OF LONGVIEW FED 6#11	Site Type Pipeline
Date Release Discovered 07/31/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
A	1	23S	28E	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 type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 27.4	Volume Recovered (bbls) 5
	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 approximately 975 feet west of the Longview Fed 6#11, a 4" poly pipeline sprung a leak resulting in a 27.4 bbl produced water spill. 5 bbls were recovered. The spill was in a pipeline right of way and not on a pad. The line was isolated to stop the leak.

Incident ID	nAPP2221329700
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? More than 25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Email notice to OCD given by Dale Woodall on 7/31/2022	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Dale Woodall	Title: Environmental Professional
Signature: <u>Dale Woodall</u>	Date: <u>08/02/2022</u>
email: <u>dale.woodall@dvn.com</u>	Telephone: <u>405-318-4697</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>08/02/2022</u>

LVP gathering line 975 feet west of Longview Federal 6#11 (API 30-015-37326)

Spill Volume(Bbls) Calculator
Inputs in blue, Outputs in red

Contaminated Soil measurement

Length(Ft)	Width(Ft)	Depth(Ft)
<u>2047</u>	<u>4.000</u>	<u>0.125</u>
Cubic Feet of Soil Impacted		<u>1023.500</u>
Barrels of Soil Impacted		<u>182.44</u>
Soil Type		<u>Clay/Sand</u>
Barrels of Oil Assuming 100% Saturation		<u>27.37</u>
Saturation	<u>Fluid present with shovel/backhoe</u>	
Estimated Barrels of Oil Released		<u>27.37</u>
Free Standing Fluid Only		
Length(Ft)	Width(Ft)	Depth(Ft)
Standing fluid		<u>0.000</u>
Total fluids spilled		<u>27.366</u>

Incident ID	nAPP2221329700
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>51-100</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

Incident ID	nAPP2221329700
District RP	
Facility ID	
Application ID	

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

Printed Name: Jim Raley Title: Environmental Professional

Signature: _____ Date: 2/13/2023

email: Jim.Raley@dvn.com Telephone: 575-689-7597

OCD Only

Received by: _____ Date: _____

From: [Hamlet, Robert, EMNRD](#)
To: tom@pimaoil.com; [ocdonline, emnrd, EMNRD](#)
Cc: ["Raley, Jim"](#); ["Gio PimaOil"](#); [Bratcher, Michael, EMNRD](#)
Subject: RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 154369
Date: Monday, February 13, 2023 8:46:24 AM

Tom,

If you have a borehole log >50' that is within ½ of the site, we would accept that for depth to groundwater determination. We would just need a copy of the driller's log. Let me know when the Variance Request is on the payment portal and I'll take a quick look at it, so the documents make it into the Incident Files in OCD Permitting. Thanks

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau

EMNRD - Oil Conservation Division

506 W. Texas Ave. | Artesia, NM 88210

575.909.0302 | robert.hamlet@state.nm.us

<http://www.emnrd.state.nm.us/OCD/>



From: tom@pimaoil.com <tom@pimaoil.com>

Sent: Monday, February 13, 2023 8:25 AM

To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; ocdonline, emnrd, EMNRD <emnrd.ocdonline@emnrd.nm.gov>

Cc: 'Raley, Jim' <Jim.Raley@dmv.com>; 'Gio PimaOil' <gio@pimaoil.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 154369

Good morning Robert,

Attached is the information from both of the previously mentioned OSE wells. These were drilled in April and July of 2021 and were intended to verify that depth to ground water in this area was between 51' and 100'. There would not be a recorded depth to water measurement as they both were dry after the required 72-hour waiting period.

C 04539-POD1 is approximately 1,000' from the spill site.

C 04524-POD1 is approximately 1,300' from the spill site.

You have stated that in order to approve this variance, **"an accurate depth to groundwater measure will need to be conducted."** Does that mean you would like an actual water well drilled and recorded?

We do feel that depth to ground water is >50' and we already have 2 boreholes that verify this data. Couldn't we just simply include the attached logs in the variance request? We do believe that these

boreholes were both drilled and recorded according to the spill rule and the NMOCD's guidelines for reasonably determining the depth to ground water.

I apologize for the confusion on our end, and would appreciate further clarity so that we could get this variance approved. Thank you for your time.

THANK YOU,

Tom Bynum

Cell – 580-748-1613

Office – 575-964-7740



Pima Environmental Services, LLC.

5614 N Lovington Hwy.

Hobbs, NM, 88240

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Friday, February 10, 2023 3:11 PM

To: Raley, Jim <Jim.Raley@dvn.com>

Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 154369

To whom it may concern (c/o James Raley for WPX Energy Permian, LLC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2221329700, for the following reasons:

- **The Variance Request is denied. Both New Mexico OSE wells named 04524-POD1 and 04539-POD1 are within ½ mile and have a well depth of 55'. These wells have no recorded depth to water measurement. For the OCD to approve a variance of 500 ft2 for confirmation samples, an accurate depth to groundwater measure will need to be conducted. This can be completed through additional groundwater measurement data/information or through drilling a borehole. If you feel the depth to groundwater is >50', a shallow borehole can be drilled near the site to 51' allowing for verification of the depth. If water is not visible after reaching bottom-hole and waiting 72 hours, the boring can be used for depth to water determination. We would just need a copy of the driller's log. If depth to groundwater is not verified, the site will need to be remediated to the strictest closure criteria.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the

Application ID: 154369.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,

Robert Hamlet

575-748-1283

Robert.Hamlet@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505

Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.



Pima Environmental Services

Appendix D

Photographic Documentation



**SITE PHOTOGRAPHS
DEVON ENERGY**

LVP LINE W OF LONGVIEW FED 6 #11







Pima Environmental Services

Appendix E

Laboratory Reports

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: LVP Line 975FT West of Longview

Work Order: E209018

Job Number: 01058-0007

Received: 9/8/2022

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/13/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 9/13/22



Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: LVP Line 975FT West of Longview
Workorder: E209018
Date Received: 9/8/2022 10:30:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/8/2022 10:30:00AM, under the Project Name: LVP Line 975FT West of Longview.

The analytical test results summarized in this report with the Project Name: LVP Line 975FT West of Longview 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

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Sample Custody Officer
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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	LVP Line 975FT West of Longview	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	09/13/22 11:49

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S.1 1'	E209018-01A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
S.2 1'	E209018-02A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
S.3 1'	E209018-03A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
S.4 1'	E209018-04A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
S.5 1'	E209018-05A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
S.6 1'	E209018-06A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
S.7 1'	E209018-07A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
S.8 1'	E209018-08A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
SW 1	E209018-09A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
SW2	E209018-10A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
SW3	E209018-11A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
SW4	E209018-12A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
SW5	E209018-13A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
SW6	E209018-14A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
SW7	E209018-15A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
SW8	E209018-16A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
SW9	E209018-17A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
SW10	E209018-18A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
SW11	E209018-19A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
SW12	E209018-20A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
SW13	E209018-21A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
SW14	E209018-22A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
SW15	E209018-23A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
SW16	E209018-24A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
SW17	E209018-25A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
SW18	E209018-26A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
SW19	E209018-27A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
SW20	E209018-28A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.
SW21	E209018-29A	Soil	08/30/22	09/08/22	Glass Jar, 4 oz.



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

S.1 1'
E209018-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	97.4 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	98.1 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	97.4 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	98.1 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/08/22	
Surrogate: n-Nonane	96.6 %	50-200		09/08/22	09/08/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237036
Chloride	16300	1000	50	09/08/22	09/08/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

S.2 1'

E209018-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	99.0 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	91.9 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	96.6 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	99.0 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	91.9 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	96.6 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/08/22	
Surrogate: n-Nonane	97.9 %	50-200		09/08/22	09/08/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237036
Chloride	25200	400	20	09/08/22	09/08/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

S.3 1'

E209018-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	97.5 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	96.7 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	97.5 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	96.7 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/08/22	
Surrogate: n-Nonane	98.8 %	50-200		09/08/22	09/08/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237036
Chloride	22500	400	20	09/08/22	09/08/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

S.4 1'

E209018-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	96.6 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	93.9 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	96.1 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	96.6 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	93.9 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	96.1 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/08/22	
Surrogate: n-Nonane	86.1 %	50-200		09/08/22	09/08/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237036
Chloride	12900	400	20	09/08/22	09/08/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

S.5 1'

E209018-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	96.3 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	94.7 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	97.2 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	96.3 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	94.7 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	97.2 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/08/22	
Surrogate: n-Nonane	79.2 %	50-200		09/08/22	09/08/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237036
Chloride	25700	1000	50	09/08/22	09/08/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

S.6 1'

E209018-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	96.7 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	91.8 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	95.4 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	96.7 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	91.8 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	95.4 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/08/22	
Surrogate: n-Nonane	93.8 %	50-200		09/08/22	09/08/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237036
Chloride	7110	100	5	09/08/22	09/08/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

S.7 1'

E209018-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	96.8 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	89.4 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	96.5 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	96.8 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	89.4 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	96.5 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/08/22	
Surrogate: n-Nonane	85.2 %	50-200		09/08/22	09/08/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237036
Chloride	12300	400	20	09/08/22	09/08/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

S.8 1'

E209018-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	96.9 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	94.5 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	96.5 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	96.9 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	94.5 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	96.5 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/08/22	
Surrogate: n-Nonane	100 %	50-200		09/08/22	09/08/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237036
Chloride	14100	400	20	09/08/22	09/08/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

SW 1

E209018-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	94.1 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	92.7 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	94.3 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	94.1 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	92.7 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	94.3 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
Surrogate: n-Nonane	98.9 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237036
Chloride	ND	20.0	1	09/08/22	09/08/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

SW2

E209018-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	95.6 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	90.7 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	96.1 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	95.6 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	90.7 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	96.1 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
Surrogate: n-Nonane	92.8 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237036
Chloride	30.3	20.0	1	09/08/22	09/08/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

SW3

E209018-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	97.7 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	91.5 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	97.7 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	97.7 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	91.5 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	97.7 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
Surrogate: n-Nonane	94.7 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237036
Chloride	ND	20.0	1	09/08/22	09/08/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

SW4

E209018-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	95.5 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	93.6 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	96.3 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	95.5 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	93.6 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	96.3 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
Surrogate: n-Nonane	95.6 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237036
Chloride	ND	20.0	1	09/08/22	09/08/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

SW5

E209018-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	95.7 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	95.5 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	96.2 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	95.7 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	95.5 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	96.2 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
Surrogate: n-Nonane	99.4 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237036
Chloride	ND	200	10	09/08/22	09/08/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

SW6

E209018-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	99.5 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	94.2 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	97.0 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	99.5 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	94.2 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	97.0 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
Surrogate: n-Nonane	102 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237036
Chloride	130	20.0	1	09/08/22	09/08/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

SW7

E209018-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	98.0 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	91.5 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	95.4 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	98.0 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	91.5 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	95.4 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
Surrogate: n-Nonane	93.8 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237036
Chloride	505	20.0	1	09/08/22	09/08/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

SW8

E209018-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	96.3 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	95.8 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	95.1 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	96.3 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	95.8 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	95.1 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
Surrogate: n-Nonane	91.0 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237036
Chloride	211	20.0	1	09/08/22	09/08/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

SW9

E209018-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	96.4 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	97.0 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	96.4 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	97.0 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
Surrogate: n-Nonane	95.4 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237036
Chloride	238	20.0	1	09/08/22	09/08/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

SW10

E209018-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene		100 %	70-130	09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4		91.2 %	70-130	09/08/22	09/09/22	
Surrogate: Toluene-d8		96.3 %	70-130	09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene		100 %	70-130	09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4		91.2 %	70-130	09/08/22	09/09/22	
Surrogate: Toluene-d8		96.3 %	70-130	09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
Surrogate: n-Nonane		98.2 %	50-200	09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237036
Chloride	ND	20.0	1	09/08/22	09/08/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

SW11
E209018-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	98.2 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	96.7 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	98.2 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	96.7 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
Surrogate: n-Nonane	99.9 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237036
Chloride	ND	20.0	1	09/08/22	09/09/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

SW12

E209018-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	97.8 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	89.7 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	96.3 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237034
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	97.8 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	89.7 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	96.3 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
Surrogate: n-Nonane	104 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237036
Chloride	ND	20.0	1	09/08/22	09/09/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

SW13

E209018-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237047
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.1 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237047
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.9 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237019
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237035
Chloride	ND	20.0	1	09/08/22	09/08/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

SW14

E209018-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237047
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.8 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237047
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.2 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237019
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237035
Chloride	ND	20.0	1	09/08/22	09/08/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

SW15

E209018-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237047
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.7 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237047
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.8 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237019
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
<i>Surrogate: n-Nonane</i>						
	97.9 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237035
Chloride	ND	20.0	1	09/08/22	09/08/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

SW16

E209018-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237047
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.6 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237047
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	83.6 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237019
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237035
Chloride	ND	20.0	1	09/08/22	09/08/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

SW17

E209018-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237047
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.3 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237047
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.1 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237019
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
<i>Surrogate: n-Nonane</i>						
	98.3 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237035
Chloride	ND	20.0	1	09/08/22	09/08/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

SW18

E209018-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237047
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.3 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237047
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.1 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237019
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
<i>Surrogate: n-Nonane</i>						
	90.7 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237035
Chloride	ND	20.0	1	09/08/22	09/08/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

SW19

E209018-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2237047	
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.6 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2237047	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	84.6 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2237019	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
<i>Surrogate: n-Nonane</i>	94.8 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL		Batch: 2237035	
Chloride	20.3	20.0	1	09/08/22	09/08/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

SW20

E209018-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237047
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.4 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237047
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.5 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237019
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
<i>Surrogate: n-Nonane</i>						
	97.8 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237035
Chloride	ND	20.0	1	09/08/22	09/08/22	



Sample Data

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

Project Name: LVP Line 975FT West of Longview
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 11:49:25AM

SW21

E209018-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237047
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.8 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237047
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.2 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237019
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
<i>Surrogate: n-Nonane</i>						
	99.7 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237035
Chloride	ND	20.0	1	09/08/22	09/08/22	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	LVP Line 975FT West of Longview	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/13/2022 11:49:25AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

Blank (2237034-BLK1)

Prepared: 09/07/22 Analyzed: 09/08/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

LCS (2237034-BS1)

Prepared: 09/07/22 Analyzed: 09/08/22

Benzene	2.08	0.0250	2.50		83.2	70-130			
Ethylbenzene	2.20	0.0250	2.50		88.0	70-130			
Toluene	2.19	0.0250	2.50		87.6	70-130			
o-Xylene	2.04	0.0250	2.50		81.7	70-130			
p,m-Xylene	4.08	0.0500	5.00		81.6	70-130			
Total Xylenes	6.12	0.0250	7.50		81.7	70-130			
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		94.0	70-130			
Surrogate: Toluene-d8	0.548		0.500		110	70-130			

LCS Dup (2237034-BSD1)

Prepared: 09/07/22 Analyzed: 09/08/22

Benzene	2.17	0.0250	2.50		86.9	70-130	4.35	23	
Ethylbenzene	2.28	0.0250	2.50		91.3	70-130	3.59	27	
Toluene	2.22	0.0250	2.50		88.9	70-130	1.47	24	
o-Xylene	2.13	0.0250	2.50		85.4	70-130	4.41	27	
p,m-Xylene	4.24	0.0500	5.00		84.8	70-130	3.83	27	
Total Xylenes	6.38	0.0250	7.50		85.0	70-130	4.02	27	
Surrogate: Bromofluorobenzene	0.497		0.500		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		91.9	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	LVP Line 975FT West of Longview	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/13/2022 11:49:25AM

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 (2237047-BLK1)

Prepared: 09/08/22 Analyzed: 09/09/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			

LCS (2237047-BS1)

Prepared: 09/08/22 Analyzed: 09/09/22

Benzene	5.81	0.0250	5.00		116	70-130			
Ethylbenzene	4.82	0.0250	5.00		96.3	70-130			
Toluene	5.11	0.0250	5.00		102	70-130			
o-Xylene	4.89	0.0250	5.00		97.8	70-130			
p,m-Xylene	9.76	0.0500	10.0		97.6	70-130			
Total Xylenes	14.7	0.0250	15.0		97.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.96		8.00		99.5	70-130			

LCS Dup (2237047-BS1)

Prepared: 09/08/22 Analyzed: 09/12/22

Benzene	5.41	0.0250	5.00		108	70-130	7.02	20	
Ethylbenzene	4.50	0.0250	5.00		90.0	70-130	6.77	20	
Toluene	4.77	0.0250	5.00		95.4	70-130	6.99	20	
o-Xylene	4.57	0.0250	5.00		91.4	70-130	6.75	20	
p,m-Xylene	9.11	0.0500	10.0		91.1	70-130	6.98	20	
Total Xylenes	13.7	0.0250	15.0		91.2	70-130	6.90	20	
Surrogate: 4-Bromochlorobenzene-PID	7.95		8.00		99.3	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	LVP Line 975FT West of Longview	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/13/2022 11:49:25AM

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 (2237034-BLK1)

Prepared: 09/07/22 Analyzed: 09/08/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

LCS (2237034-BS2)

Prepared: 09/07/22 Analyzed: 09/08/22

Gasoline Range Organics (C6-C10)	50.2	20.0	50.0		100	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.454		0.500		90.8	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

LCS Dup (2237034-BSD2)

Prepared: 09/07/22 Analyzed: 09/09/22

Gasoline Range Organics (C6-C10)	53.2	20.0	50.0		106	70-130	5.64	20	
Surrogate: Bromofluorobenzene	0.497		0.500		99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.4	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	LVP Line 975FT West of Longview	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/13/2022 11:49:25AM

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 (2237047-BLK1)

Prepared: 09/08/22 Analyzed: 09/09/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.72		8.00		83.9	70-130			

LCS (2237047-BS2)

Prepared: 09/08/22 Analyzed: 09/09/22

Gasoline Range Organics (C6-C10)	53.0	20.0	50.0		106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.90		8.00		86.3	70-130			

LCS Dup (2237047-BSD2)

Prepared: 09/08/22 Analyzed: 09/09/22

Gasoline Range Organics (C6-C10)	49.4	20.0	50.0		98.7	70-130	7.11	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		87.9	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	LVP Line 975FT West of Longview	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/13/2022 11:49:25AM

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 (2237019-BLK1)

Prepared: 09/07/22 Analyzed: 09/07/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.6		50.0		103	50-200			

LCS (2237019-BS1)

Prepared: 09/07/22 Analyzed: 09/07/22

Diesel Range Organics (C10-C28)	259	25.0	250		104	38-132			
Surrogate: n-Nonane	51.3		50.0		103	50-200			

Matrix Spike (2237019-MS1)

Source: E209014-01

Prepared: 09/07/22 Analyzed: 09/07/22

Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	52.9		50.0		106	50-200			

Matrix Spike Dup (2237019-MSD1)

Source: E209014-01

Prepared: 09/07/22 Analyzed: 09/07/22

Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	38-132	0.637	20	
Surrogate: n-Nonane	53.2		50.0		106	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	LVP Line 975FT West of Longview	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/13/2022 11:49:25AM

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 (2237030-BLK1)

Prepared: 09/08/22 Analyzed: 09/08/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.0		50.0		116	50-200			

LCS (2237030-BS1)

Prepared: 09/08/22 Analyzed: 09/08/22

Diesel Range Organics (C10-C28)	245	25.0	250		97.8	38-132			
Surrogate: n-Nonane	46.8		50.0		93.6	50-200			

Matrix Spike (2237030-MS1)

Source: E209018-11

Prepared: 09/08/22 Analyzed: 09/08/22

Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.8	38-132			
Surrogate: n-Nonane	47.1		50.0		94.2	50-200			

Matrix Spike Dup (2237030-MSD1)

Source: E209018-11

Prepared: 09/08/22 Analyzed: 09/08/22

Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132	2.35	20	
Surrogate: n-Nonane	46.8		50.0		93.5	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	LVP Line 975FT West of Longview	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/13/2022 11:49:25AM

Anions by EPA 300.0/9056A

Analyst: KL

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

Blank (2237035-BLK1)					Prepared: 09/08/22 Analyzed: 09/08/22				
Chloride	ND	20.0							
LCS (2237035-BS1)					Prepared: 09/08/22 Analyzed: 09/08/22				
Chloride	236	20.0	250		94.3	90-110			
LCS Dup (2237035-BSD1)					Prepared: 09/08/22 Analyzed: 09/08/22				
Chloride	235	20.0	250		94.1	90-110	0.275	20	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	LVP Line 975FT West of Longview	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/13/2022 11:49:25AM

Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2237036-BLK1)					Prepared: 09/08/22 Analyzed: 09/08/22				
Chloride	ND	20.0							
LCS (2237036-BS1)					Prepared: 09/08/22 Analyzed: 09/08/22				
Chloride	239	20.0	250		95.4	90-110			
LCS Dup (2237036-BSD1)					Prepared: 09/08/22 Analyzed: 09/08/22				
Chloride	238	20.0	250		95.2	90-110	0.214	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:	LVP Line 975FT West of Longview	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	09/13/22 11:49

- 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 1 of 3

Client: Pima Environmental Services Project: LVP Line 975th West of Longview Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:					Bill To Attention: Devon Energy Address: City, State, Zip: Phone: Email: Pima Project # 188					Lab Use Only Lab WO# E209018 Job Number 01058-0007 Analysis and Method DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM BGDOC TX					TAT 1D 2D 3D Standard X				EPA Program CWA SDWA RCRA	
										State NM CO UT AZ TX X				Remarks						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX							
10:00	8/30/22	S		S.1 1'	1							X								
10:05				S.2 1'	2															
10:10				S.3 1'	3															
10:15				S.4 1'	4															
10:20				S.5 1'	5															
10:25				S.6 1'	6															
10:30				S.7 1'	7															
10:35				S.8 1'	8															
10:40				SW 1	9															
10:45				SW 2	10															
Additional Instructions: Billing # 2105764																				
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) <i>[Signature]</i> Date <i>9-6-22</i> Time <i>3:00</i>					Received by: (Signature) <i>[Signature]</i> Date <i>9-6-22</i> Time <i>3:00</i>					Lab Use Only Received on ice: <i>[Initials]</i> Y N										
Relinquished by: (Signature) <i>[Signature]</i> Date <i>9-6-22</i> Time <i>4:15</i>					Received by: (Signature) <i>[Signature]</i> Date <i>9/8/22</i> Time <i>10:30</i>					T1 T2 T3 AVG Temp °C <i>4</i>										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																				
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				

Project Information

Chain of Custody

Page 2 of 3

Client: Pima Environmental Services Project: LVP Line 975th West of Limaview Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:					Bill To Attention: Devon Energy Address: City, State, Zip: Phone: Email: Pima Project # 188					Lab Use Only Lab WO# E209018 Job Number 01058-0007 Analysis and Method					TAT 1D 2D 3D Standard X				EPA Program CWA SDWA RCRA	
										State NM CO UT AZ TX Y										
										Remarks										
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX							
10:50	8/30/22	S		SW 3	11							X								
10:55				SW 4	12															
11:00				SW 5	13															
11:05				SW 6	14															
11:10				SW 7	15															
11:15				SW 8	16															
11:20				SW 9	17															
11:25				SW 10	18															
11:30				SW 11	19															
11:35				SW 12	20															
Additional Instructions: <u>Billing # 2105764</u>																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.										
Relinquished by: (Signature) <u>[Signature]</u>					Date <u>8-22-22</u>		Time <u>3:00</u>		Received by: (Signature) <u>[Signature]</u>					Date <u>9-1-22</u>		Time <u>3:00</u>				
Relinquished by: (Signature) <u>[Signature]</u>					Date <u>9-6-22</u>		Time <u>4:15</u>		Received by: (Signature) <u>[Signature]</u>					Date <u>9/8/22</u>		Time <u>10:30</u>				
Relinquished by: (Signature) <u>[Signature]</u>					Date <u>9-6-22</u>		Time <u>4:15</u>		Received by: (Signature) <u>[Signature]</u>					Date <u>9/8/22</u>		Time <u>10:30</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 3 of 3

Client: Pima Environmental Services					Bill To		Lab Use Only				TAT				EPA Program									
Project: VP Line 975th West of Longview					Attention: Devon Energy		Lab WO# E209018		Job Number 0058-0007		1D	2D	3D	Standard	CWA	SDWA								
Project Manager: Tom Bynum					Address:		Analysis and Method										RCRA							
Address: 5614 N. Lovington Hwy.					City, State, Zip												NM		CO		UT		AZ	
City, State, Zip Hobbs, NM, 88240					Phone:		DRO/DRO by 8015		GRO/DRO by 8015		BTX by 8021		VOC by 8260		Metals 6010		Chloride 300.0		BGDOC NM		BGDOC TX		State	
Phone: 580-748-1613					Email:																		Remarks	
Email: tom@pimaoil.com					Pima Project # 188																			
Report due by:																								

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
11:40	8/30/22	S		SW 13	21							X		
11:45				SW 14	22									
11:50				SW 15	23									
11:55				SW 16	24									
12:00				SW 17	25									
12:05				SW 18	26									
12:10				SW 19	27									
12:15				SW 20	28									
12:20				SW 21	29									

Additional Instructions: **Billing # 2105764**

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: **Scott Henson**

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) Andrew Sanders	Date 9-2-22	Time 3:00	Received by: (Signature) Scott Henson	Date 9-6-22	Time 3:00	Lab Use Only
Relinquished by: (Signature) Scott Henson	Date 9-6-22	Time 4:15	Received by: (Signature) Scott Henson	Date 9/8/22	Time 10:50	Received on ice: Y N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3
AVG Temp °C 4						

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

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: 9/8/2022 11:07:26AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	09/08/22 10:30	Work Order ID:	E209018
Phone:	(575) 631-6977	Date Logged In:	09/07/22 09:57	Logged In By:	Alexa Michaels
Email:	tom@pimaoil.com	Due Date:	09/14/22 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/Resolution

No. of containers are not provided on the COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: LVP Line W. of Longview Fed 6
#11

Work Order: E209075

Job Number: 01058-0007

Received: 9/15/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/22/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 9/22/22

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: LVP Line W. of Longview Fed 6 #11
Workorder: E209075
Date Received: 9/15/2022 2:43:00PM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/15/2022 2:43:00PM, under the Project Name: LVP Line W. of Longview Fed 6 #11.

The analytical test results summarized in this report with the Project Name: LVP Line W. of Longview Fed 6 #11 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,

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	LVP Line W. of Longview Fed 6 #11	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	09/22/22 12:36

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S.1 4'	E209075-01A	Soil	09/13/22	09/15/22	Glass Jar, 2 oz.
S.1 5'	E209075-02A	Soil	09/13/22	09/15/22	Glass Jar, 2 oz.
S.1 6'	E209075-03A	Soil	09/13/22	09/15/22	Glass Jar, 2 oz.
S.2 2 1/2'	E209075-04A	Soil	09/13/22	09/15/22	Glass Jar, 2 oz.
S.4 2'	E209075-05A	Soil	09/13/22	09/15/22	Glass Jar, 2 oz.
S.4 3'	E209075-06A	Soil	09/13/22	09/15/22	Glass Jar, 2 oz.
S.6 3'	E209075-07A	Soil	09/13/22	09/15/22	Glass Jar, 2 oz.
S.6 4'	E209075-08A	Soil	09/13/22	09/15/22	Glass Jar, 2 oz.
S.8 2'	E209075-09A	Soil	09/13/22	09/15/22	Glass Jar, 2 oz.
S.8 3'	E209075-10A	Soil	09/13/22	09/15/22	Glass Jar, 2 oz.
S.9 4'	E209075-11A	Soil	09/13/22	09/15/22	Glass Jar, 2 oz.
S.9 5'	E209075-12A	Soil	09/13/22	09/15/22	Glass Jar, 2 oz.
S.9 6'	E209075-13A	Soil	09/13/22	09/15/22	Glass Jar, 2 oz.
S.10 3'	E209075-14A	Soil	09/13/22	09/15/22	Glass Jar, 2 oz.
S.10 4'	E209075-15A	Soil	09/13/22	09/15/22	Glass Jar, 2 oz.
S.10 5'	E209075-16A	Soil	09/13/22	09/15/22	Glass Jar, 2 oz.
S.13 5'	E209075-17A	Soil	09/13/22	09/15/22	Glass Jar, 2 oz.
S.15 6'	E209075-18A	Soil	09/13/22	09/15/22	Glass Jar, 2 oz.
S.15 7'	E209075-19A	Soil	09/13/22	09/15/22	Glass Jar, 2 oz.
S.15 8'	E209075-20A	Soil	09/13/22	09/15/22	Glass Jar, 2 oz.
S.16 5'	E209075-21A	Soil	09/13/22	09/15/22	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	LVP Line W. of Longview Fed 6 #11	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/22/2022 12:36:55PM

S.1 4'

E209075-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2239018
Benzene	ND	0.0250	1	09/19/22	09/21/22	
Ethylbenzene	ND	0.0250	1	09/19/22	09/21/22	
Toluene	ND	0.0250	1	09/19/22	09/21/22	
o-Xylene	ND	0.0250	1	09/19/22	09/21/22	
p,m-Xylene	ND	0.0500	1	09/19/22	09/21/22	
Total Xylenes	ND	0.0250	1	09/19/22	09/21/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.8 %	70-130		09/19/22	09/21/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2239018
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/22	09/21/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	85.8 %	70-130		09/19/22	09/21/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2239015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/22	09/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/22	09/20/22	
<i>Surrogate: n-Nonane</i>	85.5 %	50-200		09/19/22	09/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2239042
Chloride	17800	400	20	09/20/22	09/20/22	



Sample Data

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

Project Name: LVP Line W. of Longview Fed 6 #11
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/22/2022 12:36:55PM

S.1 5'

E209075-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Benzene	ND	0.0250	1	09/19/22	09/21/22	
Ethylbenzene	ND	0.0250	1	09/19/22	09/21/22	
Toluene	ND	0.0250	1	09/19/22	09/21/22	
o-Xylene	ND	0.0250	1	09/19/22	09/21/22	
p,m-Xylene	ND	0.0500	1	09/19/22	09/21/22	
Total Xylenes	ND	0.0250	1	09/19/22	09/21/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.8 %	70-130		09/19/22	09/21/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/22	09/21/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.7 %	70-130		09/19/22	09/21/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/22	09/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/22	09/20/22	
<i>Surrogate: n-Nonane</i>						
	83.5 %	50-200		09/19/22	09/20/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239042
Chloride	229	20.0	1	09/20/22	09/20/22	



Sample Data

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

Project Name: LVP Line W. of Longview Fed 6 #11
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/22/2022 12:36:55PM

S.1 6'

E209075-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Benzene	ND	0.0250	1	09/19/22	09/21/22	
Ethylbenzene	ND	0.0250	1	09/19/22	09/21/22	
Toluene	ND	0.0250	1	09/19/22	09/21/22	
o-Xylene	ND	0.0250	1	09/19/22	09/21/22	
p,m-Xylene	ND	0.0500	1	09/19/22	09/21/22	
Total Xylenes	ND	0.0250	1	09/19/22	09/21/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.4 %	70-130		09/19/22	09/21/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/22	09/21/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.5 %	70-130		09/19/22	09/21/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/22	09/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/22	09/20/22	
<i>Surrogate: n-Nonane</i>						
	87.7 %	50-200		09/19/22	09/20/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239042
Chloride	ND	20.0	1	09/20/22	09/20/22	



Sample Data

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

Project Name: LVP Line W. of Longview Fed 6 #11
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/22/2022 12:36:55PM

S.2 2 1/2'

E209075-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2239018	
Benzene	ND	0.0250	1	09/19/22	09/21/22	
Ethylbenzene	ND	0.0250	1	09/19/22	09/21/22	
Toluene	ND	0.0250	1	09/19/22	09/21/22	
o-Xylene	ND	0.0250	1	09/19/22	09/21/22	
p,m-Xylene	ND	0.0500	1	09/19/22	09/21/22	
Total Xylenes	ND	0.0250	1	09/19/22	09/21/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.0 %	70-130		09/19/22	09/21/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2239018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/22	09/21/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	84.8 %	70-130		09/19/22	09/21/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2239015	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/22	09/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/22	09/20/22	
<i>Surrogate: n-Nonane</i>	88.4 %	50-200		09/19/22	09/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2239042	
Chloride	72.7	20.0	1	09/20/22	09/20/22	



Sample Data

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

Project Name: LVP Line W. of Longview Fed 6 #11
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/22/2022 12:36:55PM

S.4 2'

E209075-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Benzene	ND	0.0250	1	09/19/22	09/22/22	
Ethylbenzene	ND	0.0250	1	09/19/22	09/22/22	
Toluene	ND	0.0250	1	09/19/22	09/22/22	
o-Xylene	ND	0.0250	1	09/19/22	09/22/22	
p,m-Xylene	ND	0.0500	1	09/19/22	09/22/22	
Total Xylenes	ND	0.0250	1	09/19/22	09/22/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.8 %	70-130		09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/22	09/22/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.3 %	70-130		09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/22	09/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/22	09/20/22	
<i>Surrogate: n-Nonane</i>						
	85.6 %	50-200		09/19/22	09/20/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239042
Chloride	829	20.0	1	09/20/22	09/20/22	



Sample Data

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

Project Name: LVP Line W. of Longview Fed 6 #11
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/22/2022 12:36:55PM

S.4 3'

E209075-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Benzene	ND	0.0250	1	09/19/22	09/22/22	
Ethylbenzene	ND	0.0250	1	09/19/22	09/22/22	
Toluene	ND	0.0250	1	09/19/22	09/22/22	
o-Xylene	ND	0.0250	1	09/19/22	09/22/22	
p,m-Xylene	ND	0.0500	1	09/19/22	09/22/22	
Total Xylenes	ND	0.0250	1	09/19/22	09/22/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.4 %	70-130		09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/22	09/22/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.3 %	70-130		09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/22	09/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/22	09/20/22	
<i>Surrogate: n-Nonane</i>						
	86.1 %	50-200		09/19/22	09/20/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239042
Chloride	17700	400	20	09/20/22	09/20/22	



Sample Data

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

Project Name: LVP Line W. of Longview Fed 6 #11
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/22/2022 12:36:55PM

S.6 3'

E209075-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Benzene	ND	0.0250	1	09/19/22	09/22/22	
Ethylbenzene	ND	0.0250	1	09/19/22	09/22/22	
Toluene	ND	0.0250	1	09/19/22	09/22/22	
o-Xylene	ND	0.0250	1	09/19/22	09/22/22	
p,m-Xylene	ND	0.0500	1	09/19/22	09/22/22	
Total Xylenes	ND	0.0250	1	09/19/22	09/22/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.0 %	70-130		09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/22	09/22/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.1 %	70-130		09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/22	09/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/22	09/20/22	
<i>Surrogate: n-Nonane</i>						
	86.4 %	50-200		09/19/22	09/20/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239042
Chloride	231	20.0	1	09/20/22	09/20/22	



Sample Data

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

Project Name: LVP Line W. of Longview Fed 6 #11
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/22/2022 12:36:55PM

S.6 4'

E209075-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Benzene	ND	0.0250	1	09/19/22	09/22/22	
Ethylbenzene	ND	0.0250	1	09/19/22	09/22/22	
Toluene	ND	0.0250	1	09/19/22	09/22/22	
o-Xylene	ND	0.0250	1	09/19/22	09/22/22	
p,m-Xylene	ND	0.0500	1	09/19/22	09/22/22	
Total Xylenes	ND	0.0250	1	09/19/22	09/22/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.6 %	70-130		09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/22	09/22/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.9 %	70-130		09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/22	09/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/22	09/20/22	
<i>Surrogate: n-Nonane</i>						
	97.3 %	50-200		09/19/22	09/20/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239042
Chloride	ND	20.0	1	09/20/22	09/20/22	



Sample Data

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

Project Name: LVP Line W. of Longview Fed 6 #11
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/22/2022 12:36:55PM

S.8 2'

E209075-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Benzene	ND	0.0250	1	09/19/22	09/22/22	
Ethylbenzene	ND	0.0250	1	09/19/22	09/22/22	
Toluene	ND	0.0250	1	09/19/22	09/22/22	
o-Xylene	ND	0.0250	1	09/19/22	09/22/22	
p,m-Xylene	ND	0.0500	1	09/19/22	09/22/22	
Total Xylenes	ND	0.0250	1	09/19/22	09/22/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.2 %	70-130		09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/22	09/22/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.7 %	70-130		09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/22	09/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/22	09/20/22	
<i>Surrogate: n-Nonane</i>						
	85.4 %	50-200		09/19/22	09/20/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239042
Chloride	2720	20.0	1	09/20/22	09/20/22	



Sample Data

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

Project Name: LVP Line W. of Longview Fed 6 #11
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/22/2022 12:36:55PM

S.8 3'

E209075-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Benzene	ND	0.0250	1	09/19/22	09/22/22	
Ethylbenzene	ND	0.0250	1	09/19/22	09/22/22	
Toluene	ND	0.0250	1	09/19/22	09/22/22	
o-Xylene	ND	0.0250	1	09/19/22	09/22/22	
p,m-Xylene	ND	0.0500	1	09/19/22	09/22/22	
Total Xylenes	ND	0.0250	1	09/19/22	09/22/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.2 %	70-130		09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/22	09/22/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.2 %	70-130		09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/22	09/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/22	09/20/22	
<i>Surrogate: n-Nonane</i>						
	84.5 %	50-200		09/19/22	09/20/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239042
Chloride	ND	20.0	1	09/20/22	09/20/22	



Sample Data

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

Project Name: LVP Line W. of Longview Fed 6 #11
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/22/2022 12:36:55PM

S.9 4'

E209075-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Benzene	ND	0.0250	1	09/19/22	09/22/22	
Ethylbenzene	ND	0.0250	1	09/19/22	09/22/22	
Toluene	ND	0.0250	1	09/19/22	09/22/22	
o-Xylene	ND	0.0250	1	09/19/22	09/22/22	
p,m-Xylene	ND	0.0500	1	09/19/22	09/22/22	
Total Xylenes	ND	0.0250	1	09/19/22	09/22/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.0 %	70-130		09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/22	09/22/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.4 %	70-130		09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/22	09/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/22	09/20/22	
<i>Surrogate: n-Nonane</i>						
	89.0 %	50-200		09/19/22	09/20/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239042
Chloride	1230	20.0	1	09/20/22	09/20/22	



Sample Data

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

Project Name: LVP Line W. of Longview Fed 6 #11
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/22/2022 12:36:55PM

S.9 5'

E209075-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Benzene	ND	0.0250	1	09/19/22	09/22/22	
Ethylbenzene	ND	0.0250	1	09/19/22	09/22/22	
Toluene	ND	0.0250	1	09/19/22	09/22/22	
o-Xylene	ND	0.0250	1	09/19/22	09/22/22	
p,m-Xylene	ND	0.0500	1	09/19/22	09/22/22	
Total Xylenes	ND	0.0250	1	09/19/22	09/22/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.3 %	70-130		09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/22	09/22/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.9 %	70-130		09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/22	09/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/22	09/20/22	
<i>Surrogate: n-Nonane</i>						
	85.4 %	50-200		09/19/22	09/20/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239042
Chloride	830	20.0	1	09/20/22	09/20/22	



Sample Data

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

Project Name: LVP Line W. of Longview Fed 6 #11
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/22/2022 12:36:55PM

S.9 6'

E209075-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Benzene	ND	0.0250	1	09/19/22	09/22/22	
Ethylbenzene	ND	0.0250	1	09/19/22	09/22/22	
Toluene	ND	0.0250	1	09/19/22	09/22/22	
o-Xylene	ND	0.0250	1	09/19/22	09/22/22	
p,m-Xylene	ND	0.0500	1	09/19/22	09/22/22	
Total Xylenes	ND	0.0250	1	09/19/22	09/22/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.6 %	70-130		09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/22	09/22/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.5 %	70-130		09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/22	09/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/22	09/20/22	
<i>Surrogate: n-Nonane</i>						
	85.8 %	50-200		09/19/22	09/20/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239042
Chloride	ND	20.0	1	09/20/22	09/20/22	



Sample Data

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

Project Name: LVP Line W. of Longview Fed 6 #11
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/22/2022 12:36:55PM

S.10 3'

E209075-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2239018	
Benzene	ND	0.0250	1	09/19/22	09/22/22	
Ethylbenzene	ND	0.0250	1	09/19/22	09/22/22	
Toluene	ND	0.0250	1	09/19/22	09/22/22	
o-Xylene	ND	0.0250	1	09/19/22	09/22/22	
p,m-Xylene	ND	0.0500	1	09/19/22	09/22/22	
Total Xylenes	ND	0.0250	1	09/19/22	09/22/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.6 %	70-130		09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2239018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/22	09/22/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	87.4 %	70-130		09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2239015	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/22	09/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/22	09/20/22	
<i>Surrogate: n-Nonane</i>	84.9 %	50-200		09/19/22	09/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2239042	
Chloride	31100	1000	50	09/20/22	09/20/22	



Sample Data

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

Project Name: LVP Line W. of Longview Fed 6 #11
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/22/2022 12:36:55PM

S.10 4'

E209075-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2239018	
Benzene	ND	0.0250	1	09/19/22	09/22/22	
Ethylbenzene	ND	0.0250	1	09/19/22	09/22/22	
Toluene	ND	0.0250	1	09/19/22	09/22/22	
o-Xylene	ND	0.0250	1	09/19/22	09/22/22	
p,m-Xylene	ND	0.0500	1	09/19/22	09/22/22	
Total Xylenes	ND	0.0250	1	09/19/22	09/22/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.9 %	70-130		09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2239018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/22	09/22/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	84.8 %	70-130		09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2239015	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/22	09/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/22	09/20/22	
<i>Surrogate: n-Nonane</i>	83.1 %	50-200		09/19/22	09/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2239042	
Chloride	18900	400	20	09/20/22	09/20/22	



Sample Data

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

Project Name: LVP Line W. of Longview Fed 6 #11
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/22/2022 12:36:55PM

S.10 5'

E209075-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Benzene	ND	0.0250	1	09/19/22	09/22/22	
Ethylbenzene	ND	0.0250	1	09/19/22	09/22/22	
Toluene	ND	0.0250	1	09/19/22	09/22/22	
o-Xylene	ND	0.0250	1	09/19/22	09/22/22	
p,m-Xylene	ND	0.0500	1	09/19/22	09/22/22	
Total Xylenes	ND	0.0250	1	09/19/22	09/22/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/22	09/22/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.0 %	70-130	09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/22	09/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/22	09/20/22	
<i>Surrogate: n-Nonane</i>						
		87.3 %	50-200	09/19/22	09/20/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239042
Chloride	2180	20.0	1	09/20/22	09/20/22	



Sample Data

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

Project Name: LVP Line W. of Longview Fed 6 #11
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/22/2022 12:36:55PM

S.13 5'

E209075-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Benzene	ND	0.0250	1	09/19/22	09/22/22	
Ethylbenzene	ND	0.0250	1	09/19/22	09/22/22	
Toluene	ND	0.0250	1	09/19/22	09/22/22	
o-Xylene	ND	0.0250	1	09/19/22	09/22/22	
p,m-Xylene	ND	0.0500	1	09/19/22	09/22/22	
Total Xylenes	ND	0.0250	1	09/19/22	09/22/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/22	09/22/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.0 %	70-130	09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/22	09/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/22	09/20/22	
<i>Surrogate: n-Nonane</i>						
		85.8 %	50-200	09/19/22	09/20/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239042
Chloride	116	20.0	1	09/20/22	09/20/22	



Sample Data

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

Project Name: LVP Line W. of Longview Fed 6 #11
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/22/2022 12:36:55PM

S.15 6'

E209075-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Benzene	ND	0.0250	1	09/19/22	09/22/22	
Ethylbenzene	ND	0.0250	1	09/19/22	09/22/22	
Toluene	ND	0.0250	1	09/19/22	09/22/22	
o-Xylene	ND	0.0250	1	09/19/22	09/22/22	
p,m-Xylene	ND	0.0500	1	09/19/22	09/22/22	
Total Xylenes	ND	0.0250	1	09/19/22	09/22/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239018
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/22	09/22/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.8 %	70-130	09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/22	09/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/22	09/20/22	
<i>Surrogate: n-Nonane</i>						
		93.5 %	50-200	09/19/22	09/20/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239042
Chloride	189	20.0	1	09/20/22	09/20/22	



Sample Data

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

Project Name: LVP Line W. of Longview Fed 6 #11
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/22/2022 12:36:55PM

S.15 7'

E209075-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2239018	
Benzene	ND	0.0250	1	09/19/22	09/22/22	
Ethylbenzene	ND	0.0250	1	09/19/22	09/22/22	
Toluene	ND	0.0250	1	09/19/22	09/22/22	
o-Xylene	ND	0.0250	1	09/19/22	09/22/22	
p,m-Xylene	ND	0.0500	1	09/19/22	09/22/22	
Total Xylenes	ND	0.0250	1	09/19/22	09/22/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2239018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/22	09/22/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.4 %	70-130	09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2239015	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/22	09/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/22	09/20/22	
<i>Surrogate: n-Nonane</i>		84.1 %	50-200	09/19/22	09/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2239042	
Chloride	198	20.0	1	09/20/22	09/20/22	



Sample Data

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

Project Name: LVP Line W. of Longview Fed 6 #11
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/22/2022 12:36:55PM

S.15 8'

E209075-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2239018	
Benzene	ND	0.0250	1	09/19/22	09/22/22	
Ethylbenzene	ND	0.0250	1	09/19/22	09/22/22	
Toluene	ND	0.0250	1	09/19/22	09/22/22	
o-Xylene	ND	0.0250	1	09/19/22	09/22/22	
p,m-Xylene	ND	0.0500	1	09/19/22	09/22/22	
Total Xylenes	ND	0.0250	1	09/19/22	09/22/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.6 %	70-130		09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2239018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/22	09/22/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	87.2 %	70-130		09/19/22	09/22/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2239015	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/22	09/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/22	09/20/22	
<i>Surrogate: n-Nonane</i>	86.2 %	50-200		09/19/22	09/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2239042	
Chloride	ND	20.0	1	09/20/22	09/20/22	



Sample Data

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

Project Name: LVP Line W. of Longview Fed 6 #11
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/22/2022 12:36:55PM

S.16 5'

E209075-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239016
Benzene	ND	0.0250	1	09/19/22	09/20/22	
Ethylbenzene	ND	0.0250	1	09/19/22	09/20/22	
Toluene	ND	0.0250	1	09/19/22	09/20/22	
o-Xylene	ND	0.0250	1	09/19/22	09/20/22	
p,m-Xylene	ND	0.0500	1	09/19/22	09/20/22	
Total Xylenes	ND	0.0250	1	09/19/22	09/20/22	
Surrogate: Bromofluorobenzene	95.6 %	70-130		09/19/22	09/20/22	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		09/19/22	09/20/22	
Surrogate: Toluene-d8	105 %	70-130		09/19/22	09/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239016
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/22	09/20/22	
Surrogate: Bromofluorobenzene	95.6 %	70-130		09/19/22	09/20/22	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		09/19/22	09/20/22	
Surrogate: Toluene-d8	105 %	70-130		09/19/22	09/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2238082
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/22	09/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/22	09/20/22	
Surrogate: n-Nonane	78.5 %	50-200		09/19/22	09/20/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239041
Chloride	ND	20.0	1	09/20/22	09/20/22	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	LVP Line W. of Longview Fed 6 #11	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/22/2022 12:36:55PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2239016-BLK1)

Prepared: 09/19/22 Analyzed: 09/20/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.476		0.500		95.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

LCS (2239016-BS1)

Prepared: 09/19/22 Analyzed: 09/20/22

Benzene	2.14	0.0250	2.50		85.5	70-130			
Ethylbenzene	2.18	0.0250	2.50		87.2	70-130			
Toluene	2.14	0.0250	2.50		85.6	70-130			
o-Xylene	2.04	0.0250	2.50		81.7	70-130			
p,m-Xylene	4.07	0.0500	5.00		81.4	70-130			
Total Xylenes	6.11	0.0250	7.50		81.5	70-130			
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.1	70-130			
Surrogate: Toluene-d8	0.535		0.500		107	70-130			

Matrix Spike (2239016-MS1)

Source: E209061-02

Prepared: 09/19/22 Analyzed: 09/20/22

Benzene	2.15	0.0250	2.50	ND	85.8	48-131			
Ethylbenzene	2.18	0.0250	2.50	ND	87.2	45-135			
Toluene	2.13	0.0250	2.50	ND	85.3	48-130			
o-Xylene	2.03	0.0250	2.50	ND	81.4	43-135			
p,m-Xylene	4.06	0.0500	5.00	ND	81.3	43-135			
Total Xylenes	6.10	0.0250	7.50	ND	81.3	43-135			
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.1	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

Matrix Spike Dup (2239016-MSD1)

Source: E209061-02

Prepared: 09/19/22 Analyzed: 09/20/22

Benzene	2.12	0.0250	2.50	ND	84.8	48-131	1.17	23	
Ethylbenzene	2.17	0.0250	2.50	ND	86.7	45-135	0.575	27	
Toluene	2.13	0.0250	2.50	ND	85.4	48-130	0.117	24	
o-Xylene	2.03	0.0250	2.50	ND	81.2	43-135	0.271	27	
p,m-Xylene	4.06	0.0500	5.00	ND	81.2	43-135	0.0862	27	
Total Xylenes	6.09	0.0250	7.50	ND	81.2	43-135	0.148	27	
Surrogate: Bromofluorobenzene	0.495		0.500		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	LVP Line W. of Longview Fed 6 #11	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/22/2022 12:36:55PM

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 (2239018-BLK1)

Prepared: 09/19/22 Analyzed: 09/20/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.97		8.00		99.6	70-130			

LCS (2239018-BS1)

Prepared: 09/19/22 Analyzed: 09/20/22

Benzene	4.80	0.0250	5.00		96.0	70-130			
Ethylbenzene	4.12	0.0250	5.00		82.4	70-130			
Toluene	4.33	0.0250	5.00		86.6	70-130			
o-Xylene	4.21	0.0250	5.00		84.3	70-130			
p,m-Xylene	8.34	0.0500	10.0		83.4	70-130			
Total Xylenes	12.5	0.0250	15.0		83.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.97		8.00		99.6	70-130			

LCS Dup (2239018-BS1)

Prepared: 09/19/22 Analyzed: 09/20/22

Benzene	5.32	0.0250	5.00		106	70-130	10.2	20	
Ethylbenzene	4.35	0.0250	5.00		87.1	70-130	5.57	20	
Toluene	4.63	0.0250	5.00		92.6	70-130	6.68	20	
o-Xylene	4.41	0.0250	5.00		88.3	70-130	4.66	20	
p,m-Xylene	8.84	0.0500	10.0		88.4	70-130	5.82	20	
Total Xylenes	13.2	0.0250	15.0		88.3	70-130	5.43	20	
Surrogate: 4-Bromochlorobenzene-PID	7.98		8.00		99.7	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	LVP Line W. of Longview Fed 6 #11	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/22/2022 12:36:55PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2239016-BLK1)

Prepared: 09/19/22 Analyzed: 09/20/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.476		0.500		95.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

LCS (2239016-BS2)

Prepared: 09/19/22 Analyzed: 09/20/22

Gasoline Range Organics (C6-C10)	52.8	20.0	50.0		106	70-130			
Surrogate: Bromofluorobenzene	0.480		0.500		95.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.2	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			

Matrix Spike (2239016-MS2)

Source: E209061-02

Prepared: 09/19/22 Analyzed: 09/20/22

Gasoline Range Organics (C6-C10)	54.1	20.0	50.0	ND	108	70-130			
Surrogate: Bromofluorobenzene	0.494		0.500		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.7	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

Matrix Spike Dup (2239016-MSD2)

Source: E209061-02

Prepared: 09/19/22 Analyzed: 09/20/22

Gasoline Range Organics (C6-C10)	53.4	20.0	50.0	ND	107	70-130	1.28	20	
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.7	70-130			
Surrogate: Toluene-d8	0.543		0.500		109	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	LVP Line W. of Longview Fed 6 #11	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/22/2022 12:36:55PM

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 (2239018-BLK1)

Prepared: 09/19/22 Analyzed: 09/20/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.77		8.00		84.6	70-130			

LCS (2239018-BS2)

Prepared: 09/19/22 Analyzed: 09/20/22

Gasoline Range Organics (C6-C10)	49.4	20.0	50.0		98.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.61		8.00		82.6	70-130			

LCS Dup (2239018-BSD2)

Prepared: 09/19/22 Analyzed: 09/20/22

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0		103	70-130	4.13	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.78		8.00		84.8	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	LVP Line W. of Longview Fed 6 #11	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/22/2022 12:36:55PM

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 (2238082-BLK1)

Prepared: 09/19/22 Analyzed: 09/19/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	38.0		50.0		76.0	50-200			

LCS (2238082-BS1)

Prepared: 09/19/22 Analyzed: 09/19/22

Diesel Range Organics (C10-C28)	236	25.0	250		94.3	38-132			
Surrogate: n-Nonane	39.9		50.0		79.8	50-200			

Matrix Spike (2238082-MS1)

Source: E209063-03

Prepared: 09/19/22 Analyzed: 09/19/22

Diesel Range Organics (C10-C28)	233	25.0	250	ND	93.0	38-132			
Surrogate: n-Nonane	41.6		50.0		83.3	50-200			

Matrix Spike Dup (2238082-MSD1)

Source: E209063-03

Prepared: 09/19/22 Analyzed: 09/19/22

Diesel Range Organics (C10-C28)	239	25.0	250	ND	95.7	38-132	2.82	20	
Surrogate: n-Nonane	38.9		50.0		77.8	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	LVP Line W. of Longview Fed 6 #11	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/22/2022 12:36:55PM

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 (2239015-BLK1)

Prepared: 09/19/22 Analyzed: 09/20/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	40.8		50.0		81.7	50-200			

LCS (2239015-BS1)

Prepared: 09/19/22 Analyzed: 09/20/22

Diesel Range Organics (C10-C28)	234	25.0	250		93.8	38-132			
Surrogate: n-Nonane	40.2		50.0		80.3	50-200			

Matrix Spike (2239015-MS1)

Source: E209075-07

Prepared: 09/19/22 Analyzed: 09/20/22

Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.8	38-132			
Surrogate: n-Nonane	41.1		50.0		82.2	50-200			

Matrix Spike Dup (2239015-MSD1)

Source: E209075-07

Prepared: 09/19/22 Analyzed: 09/20/22

Diesel Range Organics (C10-C28)	245	25.0	250	ND	97.8	38-132	1.95	20	
Surrogate: n-Nonane	42.1		50.0		84.1	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	LVP Line W. of Longview Fed 6 #11	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/22/2022 12:36:55PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2239041-BLK1)

Prepared: 09/20/22 Analyzed: 09/20/22

Chloride	ND	20.0
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LCS (2239041-BS1)

Prepared: 09/20/22 Analyzed: 09/20/22

Chloride	255	20.0	250	102	90-110
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Matrix Spike (2239041-MS1)

Source: E209073-01

Prepared: 09/20/22 Analyzed: 09/20/22

Chloride	10700	400	250	16000	NR	80-120	M5
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Matrix Spike Dup (2239041-MSD1)

Source: E209073-01

Prepared: 09/20/22 Analyzed: 09/20/22

Chloride	13000	400	250	16000	NR	80-120	19.9	20	M5
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QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	LVP Line W. of Longview Fed 6 #11	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/22/2022 12:36:55PM

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2239042-BLK1)					Prepared: 09/20/22 Analyzed: 09/20/22				
Chloride	ND	20.0							
LCS (2239042-BS1)					Prepared: 09/20/22 Analyzed: 09/20/22				
Chloride	260	20.0	250		104	90-110			
Matrix Spike (2239042-MS1)					Source: E209075-01		Prepared: 09/20/22 Analyzed: 09/20/22		
Chloride	14500	400	250	17800	NR	80-120			M5
Matrix Spike Dup (2239042-MSD1)					Source: E209075-01		Prepared: 09/20/22 Analyzed: 09/20/22		
Chloride	8630	400	250	17800	NR	80-120	50.8	20	M5, R3

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:	LVP Line W. of Longview Fed 6 #11	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	09/22/22 12:36

- 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.
- R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



Project Information

Chain of Custody

Page 1 of 3

Client: <u>Pima Environmental Services</u>					Bill To		Lab Use Only		TAT				EPA Program			
Project: <u>LVP Line W. of Longview Fg 6</u>					Attention: <u>DEVON ENERGY</u>		Lab WO# <u>E209075</u>		Job Number <u>01058-0557</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: <u>Tom Bynum</u>					Address:									X		
Address: <u>5614 N. Lovington Hwy.</u>					City, State, Zip										RCRA	
City, State, Zip <u>Hobbs, NM, 88240</u>					Phone:											
Phone: <u>580-748-1613</u>					Email:											
Email: <u>tom@pimaoil.com</u>					Pima Project # <u>188</u>											
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
10:00	9/13/22	S	1	S.1 4'	1							X		
10:05				S.1 5'	2									
10:10				S.1 6'	3									
10:15				S.2 2 1/2'	4									
10:20				S.4 2'	5									
10:25				S.4 3'	6									
10:30				S.6 3'	7									
10:35				S.6 4'	8									
10:40				S.8 2'	9									
10:45				S.8 3'	10									

Additional Instructions: Billing # 21057664

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: Scott Jensen

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>Andrea Sanders</u>	9/14/22	2:00	<u>Scott Jensen</u>	9-14-22	14:00	Received on ice: <u>(Y)</u> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<u>[Signature]</u>	9/14/22	16:45	<u>Scott Jensen</u>	9/15/22	14:43	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

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

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

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

Project Information

Chain of Custody

Page 2 of 3

Client: Pima Environmental Services Project: LVP Line 10. of Longview F 11a * 11 Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:					Bill To Attention: Devon Energy Address: City, State, Zip: Phone: Email: Pima Project # 188					Lab Use Only Lab WO# E209015 Job Number 01058-0007					TAT 1D 2D 3D Standard <input checked="" type="checkbox"/>				EPA Program CWA SDWA					
Analysis and Method DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0										BGDOC NM BGDOC TX		State NM CO UT AZ TX		Remarks										
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																			
10:50	9/13/22	S	1	S.9 4'	11																			
10:55				S.9 5'	12																			
11:00				S.9 6'	13																			
11:05				S.10 3'	14																			
11:10				S.10 4'	15																			
11:15				S.10 5'	16																			
11:20				S.13 5'	17																			
11:25				S.15 6'	18																			
11:30				S.15 7'	19																			
11:35				S.15 8'	20																			
Additional Instructions: Billing # 21057664																								
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) <i>[Signature]</i>					Date 9/14/22 Time 7:00					Received by: (Signature) <i>[Signature]</i>					Date 9/14/22 Time 14:00					Lab Use Only Received on Ice: <input checked="" type="checkbox"/> N				
Relinquished by: (Signature) <i>[Signature]</i>					Date 9/14/22 Time 16:45					Received by: (Signature) <i>[Signature]</i>					Date 9/15/22 Time 14:43					T1 T2 T3				
Relinquished by: (Signature) <i>[Signature]</i>					Date					Received by: (Signature)					Date					Time				
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA														
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																								



[illegible]

Envirotech Analytical Laboratory

Printed: 9/16/2022 9:07:17AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	09/15/22 14:43	Work Order ID:	E209075
Phone:	(575) 631-6977	Date Logged In:	09/15/22 15:23	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	09/21/22 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: 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.

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

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

CONDITIONS

Action 185638

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 185638
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	A variance has been approved for 500 ft2 confirmation sample size on the release area. Please include this e-mail correspondence in the remediation and/or closure report.	2/14/2023