



SITE ASSESSMENT AND CLOSURE REPORT

PREPARED FOR:
DEVON ENERGY PRODUCTION, LP.

PREPARED BY:
PIMA ENVIRONMENTAL SERVICES, LLC.

FEBRUARY 21, 2025
PIMA ENVIRONMENTAL SERVICES, LLC.
5614 N LOVINGTON HWY, HOBBS, NM 88240



NMOCD District 1
1625 N. French Drive
Hobbs, NM 88240

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

RE: SITE ASSESSMENT AND CLOSURE REPORT

LOCATION: Boundary Raider 6 Fed #2H

FACILITY ID: fAPP2123645331

API: 30-025-41881

GPS: 32.3256416, -103.7059097

INCIDENT LOCATION: UL- A Section 07, T23S, R32E

COUNTY: Lea

NMOCD REF. NO. NAPP2312327064

Pima Environmental Services LLC. (Pima) has been contracted by Devon Energy Production Company, LP (Devon) to prepare this Site Assessment and Closure Report for a chemical (Phasetreat 6219 by Clairiant) release that occurred at the Boundary Raider 6 Fed #2H (Boundary Raider). This incident was assigned Incident ID: NAPP2312327064, by the New Mexico Oil Conservation Division (NMOCD).

RELEASE INFORMATION

NAPP2312327064: On May 2, 2023, an operator found a stainless-steel line that was broken at a 1" inch valve. The chemical sprayed over 98' x 80' by 1/16 on and off location. The well was shut in and the line was isolated to stop the leak. The chemical was Phasetreat 6219. The released fluids were calculated to be approximately 0.1 barrels (bbls) of Phasetreat by Clairiant. Due to Phasetreat being a methanol-based product, fluid recovery was not possible as the product evaporated.

PHASETREAT 6219:

Components

Chemical name	CAS-No.	Concentration (% w/w)
Methanol	67-56-1	30 - 50
Phosphoric acid	7664-38-2	20 - 30
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	85536-14-7	10 - 20
Solvent naphtha	64742-94-5	1 - 5
Hydrocarbons, C10, aromatics, >1% naphthalene	64742-94-5	0.1 - 1
Naphthalene	91-20-3	0.1 - 1

PHASETREAT 6219 SDS is referenced in Appendix E.



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575-964-7740 | www.pimaoil.com

Boundary Raider 6 Fed #2H | NAPP2312327064

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SITE CHARACTERIZATION

The Boundary Raider is located approximately twenty-two (22) miles northeast of Malaga, NM. This spill site is in Unit A, Section 07, Township 23S, Range 32E, Latitude 32.3256416 Longitude -103.7059097, Lea County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is made up of Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits. The soil in this area is made up of Pyote and Maljamar fine sands, according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage class in this area is well drained. There is a low potential for karst geology to be present around the Boundary Raider (Figure 3). Reference Figure 2 for a Topographic Map.

Based on the well water data from the New Mexico Office of the State Engineer water well (C-04815-POD 1), the depth to the nearest groundwater in this vicinity measures 55 feet below grade surface (BGS), positioned 0.85 miles away from the Boundary Raider, drilled, April 16, 2024. Conversely, as per the United States Geological Survey well water data (USGS 321952103400801 23S.32E.03.311114), the nearest groundwater depth in this region is recorded at 487 feet BGS, situated approximately 2.15 miles away from the Boundary Raider, with the last gauge conducted in 2012. The nearest surface water feature is a salt playa located approximately 13.81 miles to the west of this site. For detailed references to water surveys and the precise locations of water wells, please refer to Appendix A, inclusive of the relevant maps.

SITE ASSESSMENT AND SOIL SAMPLING RESULTS

On May 17, 2024, Pima mobilized personnel to the site to begin collecting soil samples from the spill area in effort to delineate. Seven (7) bottom samples were collected from depth intervals of 1', 2', 3' and 4', below ground surface (BGS) from sample points labeled S-1 through S-7. Six (6) sidewall samples were collected and labeled SW-1 through SW-6. One (1) sample point was collected from the pasture at a depth of 1' below ground surface (BGS) to serve as a background sample. All samples were put on ice, prepared for delivery, then delivered to Envirotech Analytical Laboratories in Farmington, New Mexico for official analysis of all constituents listed in Table 1 19.15.29.12 NMAC. The laboratory results of this sampling event can be seen in the Data Tables in Figure 4. A Site Map can be found in Figure 5. A complete Laboratory Report is referenced in Appendix E.

On February 13, 2025, after sending a 48-hour notification (application ID: 430435, Appendix C), Pima returned to the site to collect confirmation samples from the designated assessment area, including perimeter samples. A total of Twenty (20) composite samples were collected from the surface down to a depth of 4 feet using a hand auger and a total of Six (6) confirmation sidewalls. All samples were put on ice, prepared for delivery, then delivered to Envirotech Analytical Laboratories. The results of this sampling event can be found in Figure 4. A Confirmation Sample Map can be found in Figure 6. Complete Laboratory Report is referenced in Appendix E.

Based on the confirmation sample results, all bottom and sidewall samples meet the compliance requirements of NMOCD Closure Criteria 19.15.29 NMAC. As a result, no further remediation is required.



CLOSURE REQUEST

After a thorough review, Pima formally requests the closure of incident NAPP2312327064.

Devon has fulfilled all applicable closure requirements outlined in 19.15.29.12 NMAC and respectfully requests approval of this closure report for incident ID NAPP2312327064. Devon acknowledges that once the pad area is no longer required for production or future drilling operations, reclamation will be conducted in accordance with an approved reclamation plan. This plan will include the placement of a minimum of four feet of non-waste-containing earthen material, followed by the implementation of a revegetation plan once the site achieves the required vegetative cover.

Should you have any questions or need additional information, please feel free to contact:

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

Pima Environmental – Gio Gomez at 806-782-1151 or gio@pimaoil.com.

Respectfully,



Gio Gomez

Project Manager

Pima Environmental Services, LLC



Pima Environmental Services, LLC
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Boundary Raider 6 Fed #2H | NAPP2312327064

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ATTACHMENTS

FIGURES:

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

APPENDICES:

- Appendix A – Water Surveys, FEMA, and Wetlands Map
- Appendix B – Soil Survey, Geological Data
- Appendix C – C-141 Form and 48-Hour Sampling Notification
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports & Phasetreat 6219 SDS



FIGURES

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



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Boundary Raider 6 Federal #002H | NAPP2312327064

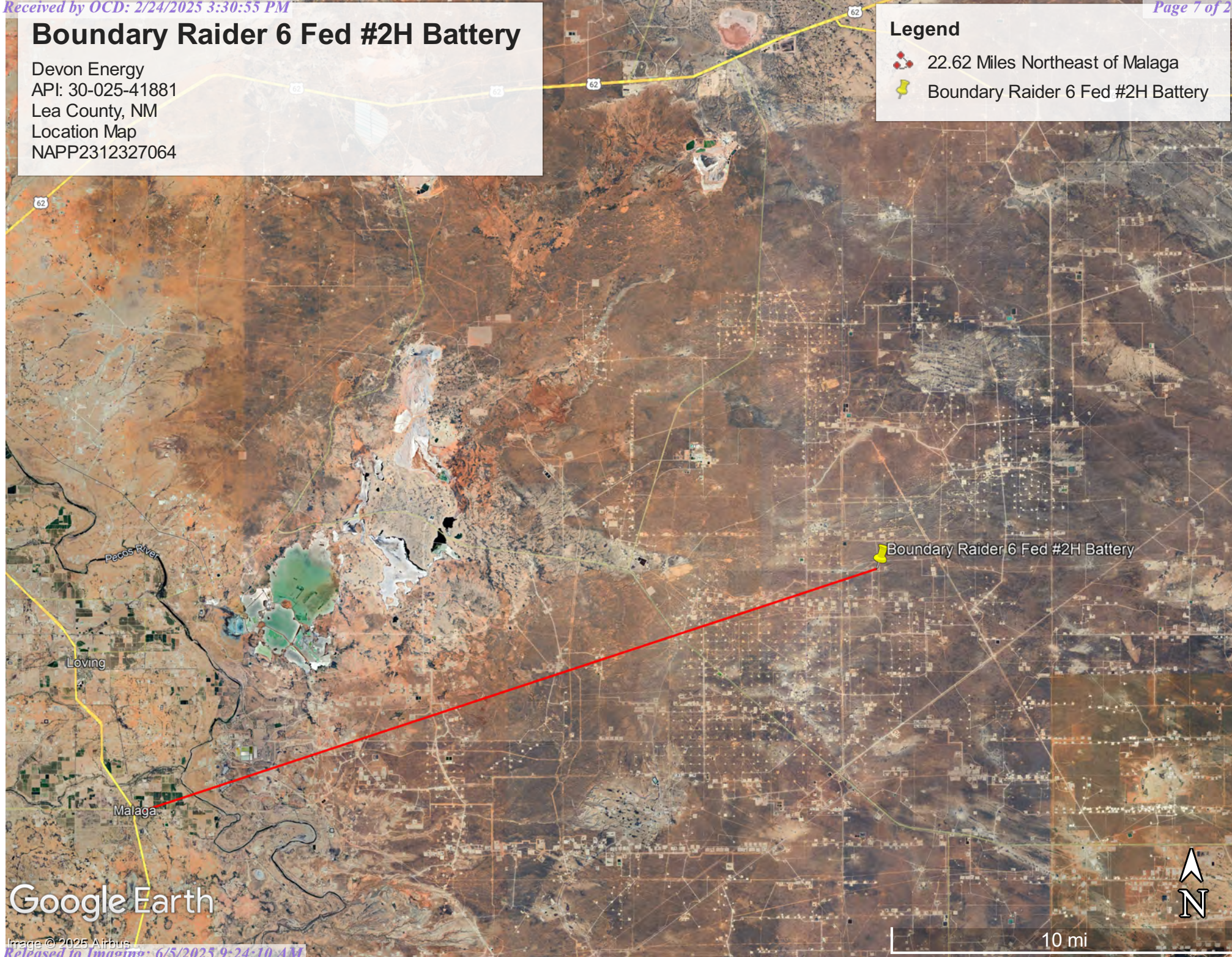
DEVON ENERGY PRODUCTION, LP.

Boundary Raider 6 Fed #2H Battery

Devon Energy
API: 30-025-41881
Lea County, NM
Location Map
NAPP2312327064

Legend

-  22.62 Miles Northeast of Malaga
-  Boundary Raider 6 Fed #2H Battery




Google Earth

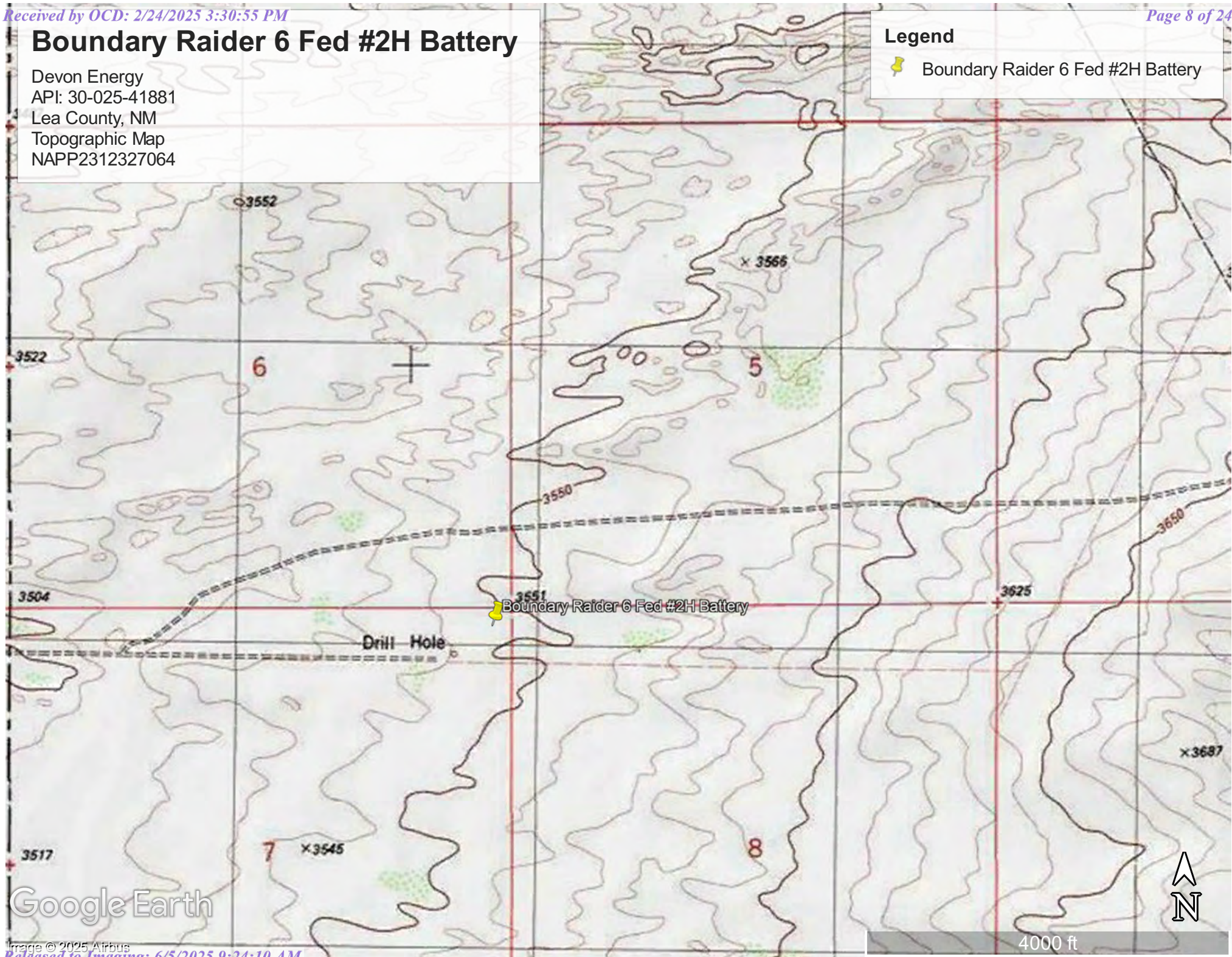
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Boundary Raider 6 Fed #2H Battery

Devon Energy
API: 30-025-41881
Lea County, NM
Topographic Map
NAPP2312327064

Legend

 Boundary Raider 6 Fed #2H Battery







Google Earth

Boundary Raider 6 Fed #2H Battery


Devon Energy
API: 30-025-41881
Lea County, NM
Karst Map
NAPP2312327064

Legend

-  Boundary Raider 6 Fed #2H Battery
-  High Karst
-  Low Karst
-  Medium Karst

Google Earth

Image © 2025 Airbus

 Boundary Raider 6 Fed #2H Battery



5 mi

INITIAL ASSESSMENT DATA TABLES



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Boundary Raider 6 Fed #2H | NAPP2312327064

DEVON ENERGY PRODUCTION, LP.

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY Boundary Raider 6 Fed 2H- NAPP2312327064								
Date: 5-17-24		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
S1	1'	ND	ND	ND	ND	ND	ND	ND
	2'	ND	ND	ND	ND	ND	ND	ND
	3'	ND	ND	ND	ND	ND	ND	ND
	4'	ND	ND	ND	ND	ND	ND	ND
S2	1'	ND	ND	ND	ND	ND	ND	ND
	2'	ND	ND	ND	ND	ND	ND	ND
	3'	ND	ND	ND	ND	ND	ND	ND
	4'	ND	ND	ND	ND	ND	ND	ND
S3	1'	ND	ND	ND	ND	ND	ND	ND
	2'	ND	ND	ND	ND	ND	ND	ND
	3'	ND	ND	ND	ND	ND	ND	ND
	4'	ND	ND	ND	ND	ND	ND	ND
S4	1'	ND	ND	ND	ND	ND	ND	ND
	2'	ND	ND	ND	ND	ND	ND	ND
	3'	ND	ND	ND	ND	ND	ND	ND
	4'	ND	ND	ND	ND	ND	ND	ND
S5	1'	ND	ND	ND	ND	ND	ND	ND
	2'	ND	ND	ND	ND	ND	ND	ND
	3'	ND	ND	ND	ND	ND	ND	69.9
	4'	ND	ND	ND	ND	ND	ND	ND
S6	1'	ND	ND	ND	ND	ND	ND	63.9
	2'	ND	ND	ND	ND	ND	ND	ND
	3'	ND	ND	ND	ND	ND	ND	66.2
	4'	ND	ND	ND	ND	ND	ND	ND
S7	1'	ND	ND	ND	ND	ND	ND	29.8
	2'	ND	ND	ND	ND	ND	ND	ND
	3'	ND	ND	ND	ND	ND	ND	ND
	4'	ND	ND	ND	ND	ND	ND	ND
SW1	Surface-4' Comp	ND	ND	ND	ND	ND	ND	ND
SW2	Surface-4' Comp	ND	ND	ND	ND	ND	ND	ND
SW3	Surface-4' Comp	ND	ND	ND	ND	ND	ND	ND
SW4	Surface-4' Comp	ND	ND	ND	ND	ND	ND	ND
SW5	Surface-4' Comp	ND	ND	ND	ND	ND	ND	ND
SW6	Surface-4' Comp	ND	ND	ND	ND	ND	ND	ND
BG1	1'	ND	ND	ND	ND	ND	ND	ND

ND/0 - Analyze not detected

CONFIRMATION SAMPLE DATA TABLES



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Boundary Raider 6 Fed #2H | NAPP2312327064

DEVON ENERGY PRODUCTION, LP.

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON Boundary Raider 6 Fed 2H-NAPP2312327064								
Date: 2-13-25		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
CS1	1-4' Comp	ND	ND	ND	ND	ND	0	ND
CS2	1-4' Comp	ND	ND	ND	ND	ND	0	ND
CS3	1-4' Comp	ND	ND	ND	ND	ND	0	ND
CS4	1-4' Comp	ND	ND	ND	ND	ND	0	ND
CS5	1-4' Comp	ND	ND	ND	ND	ND	0	ND
CS6	1-4' Comp	ND	ND	ND	ND	ND	0	ND
CS7	1-4' Comp	ND	ND	ND	ND	ND	0	ND
CS8	1-4' Comp	ND	ND	ND	ND	ND	0	ND
CS9	1-4' Comp	ND	ND	ND	ND	ND	0	ND
CS10	1-4' Comp	ND	ND	ND	ND	ND	0	ND
CS11	1-4' Comp	ND	ND	ND	ND	ND	0	ND
CS12	1-4' Comp	ND	ND	ND	ND	ND	0	ND
CS13	1-4' Comp	ND	ND	ND	ND	ND	0	ND
CS14	1-4' Comp	ND	ND	ND	ND	ND	0	ND
CS15	1-4' Comp	ND	ND	ND	ND	ND	0	ND
CS16	1-4' Comp	ND	ND	ND	ND	ND	0	ND
CS17	1-4' Comp	ND	ND	ND	ND	ND	0	ND
CS18	1-4' Comp	ND	ND	ND	ND	ND	0	ND
CS19	1-4' Comp	ND	ND	ND	ND	ND	0	ND
CS20	1-4' Comp	ND	ND	ND	ND	ND	0	ND

ND/0 - Analyze not detected





NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON Boundary Raider 6 Fed 2H-NAPP2312327064								
Date: 2-13-25		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
CSW1	Surface	ND	ND	ND	ND	ND	0	ND
	1'	ND	ND	ND	ND	ND	0	ND
	2'	ND	ND	ND	ND	ND	0	ND
	3'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
CSW2	Surface	ND	ND	ND	ND	ND	0	ND
	1'	ND	ND	ND	ND	ND	0	ND
	2'	ND	ND	ND	ND	ND	0	ND
	3'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
CSW3	Surface	ND	ND	ND	ND	ND	0	ND
	1'	ND	ND	ND	ND	ND	0	ND
	2'	ND	ND	ND	ND	ND	0	ND
	3'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
CSW4	Surface	ND	ND	ND	ND	ND	0	ND
	1'	ND	ND	ND	ND	ND	0	ND
	2'	ND	ND	ND	ND	ND	0	ND
	3'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
CSW5	Surface	ND	ND	ND	ND	ND	0	ND
	1'	ND	ND	ND	ND	ND	0	ND
	2'	ND	ND	ND	ND	ND	0	ND
	3'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
CSW6	Surface	ND	ND	ND	ND	ND	0	ND
	1'	ND	ND	ND	ND	ND	0	ND
	2'	ND	ND	ND	ND	ND	0	ND
	3'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND

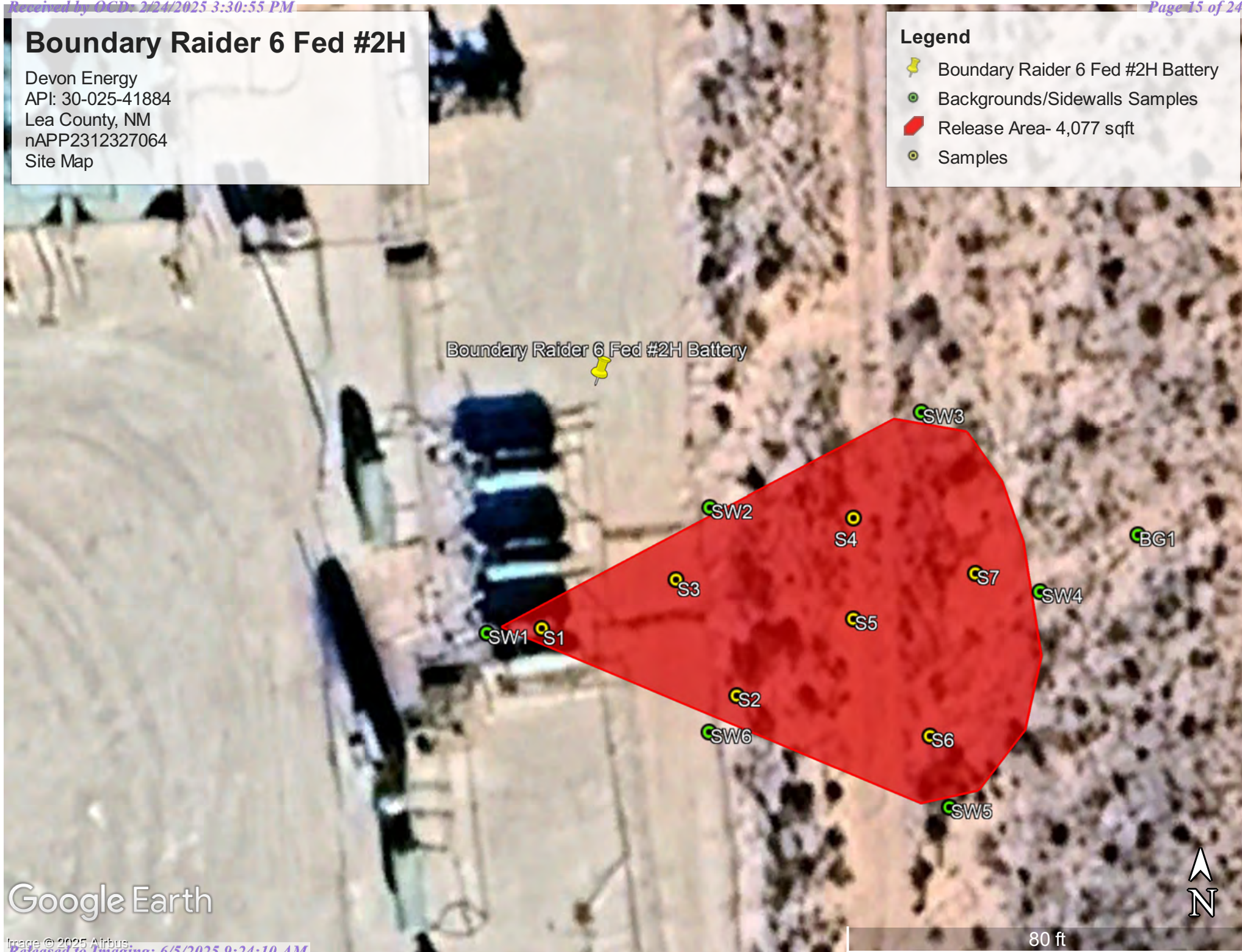
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Boundary Raider 6 Fed #2H

Devon Energy
API: 30-025-41884
Lea County, NM
nAPP2312327064
Site Map

Legend





-  Boundary Raider 6 Fed #2H Battery
-  Backgrounds/Sidewalls Samples
-  Release Area- 4,077 sqft
-  Samples

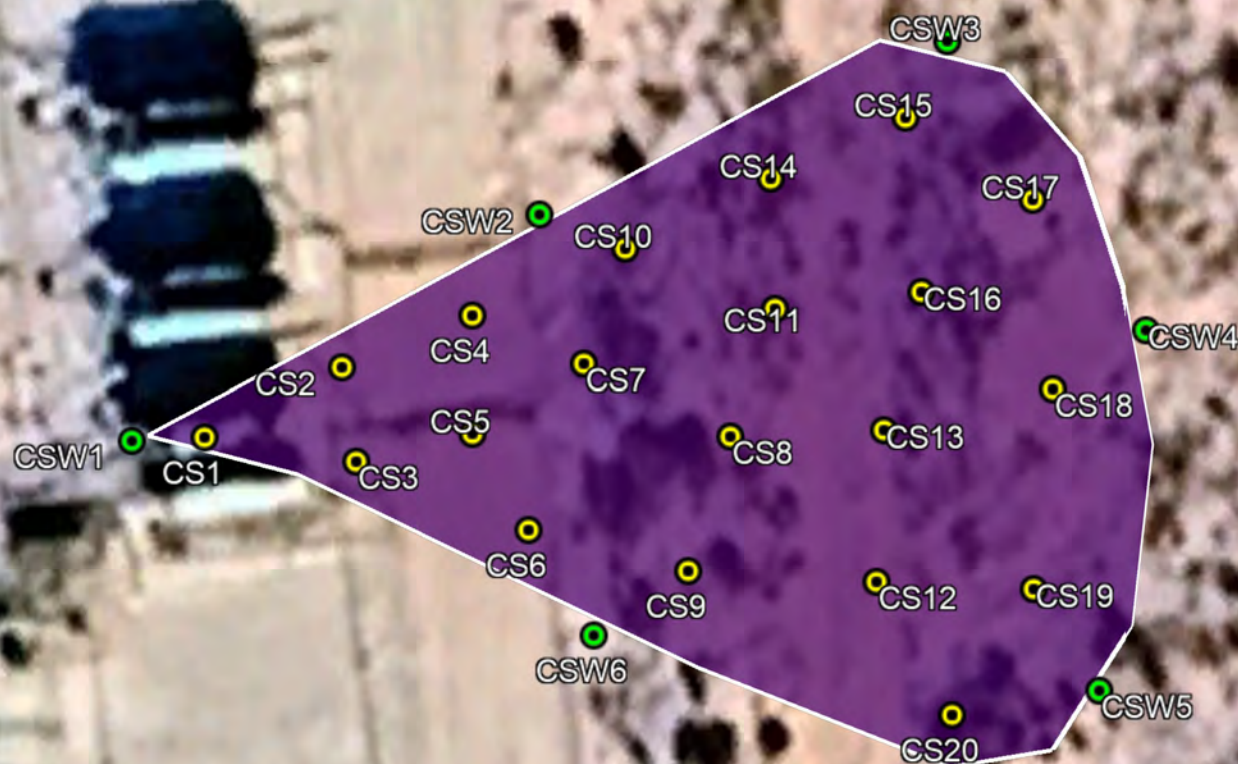



Boundary Raider 6 Fed #2H

Devon Energy
API: 30-025-41881
Lea County, NM
Confirmation Sample Map
NAPP2312327064

Legend

-  Boundary Raider 6 Fed #2H Battery
-  Confirmation Samples
-  Confirmation Sidewall Samples
-  Release Area- 4,077 Sqft



 Boundary Raider 6 Fed #2H Battery

Google Earth

70 ft

APPENDIX A

OSE Water Survey

USGS Water Survey

Surface Water Map

FEMA Flood Map

Wetlands Map



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Boundary Raider 6 Federal #002H | NAPP2312327064


DEVON ENERGY PRODUCTION, LP.

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 Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
NA	C 04815 POD1	NW	SE	SW	08	23S	32E	622391.9	3576025.7	

* UTM location was derived from PLSS - see Help

Driller License:

1833

Driller Company:

VISION RESOURCES, INC

Driller Name:

JASON MALEY

Drill Start Date:

2024-04-16

Drill Finish Date:

2024-04-16

Plug Date:

2024-04-22

Log File Date:

2024-04-25

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

55

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.



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: ~~CP-04815~~ C-04815
 Well owner: Devon Energy Resources Phone No.: _____
 Mailing address: 205 E Bender Road#150
 City: Hobbs State: NM Zip code: 88240

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Vision Resources
- 2) New Mexico Well Driller License No.: 1833 Expiration Date: 10-7-25
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Jason Maley
- 4) Date well plugging began: 4-22-24 Date well plugging concluded: 4-22-24
- 5) GPS Well Location: Latitude: 32 deg, 18 min, 51.8 sec
 Longitude: -103 deg, 41 min, 59.4 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 55 ft below ground level (bgl),
 by the following manner: Tape
- 7) Static water level measured at initiation of plugging: Dry ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 03-07-2024
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

OSE OIT APR 25 2024 PM2:37

- For each interval plugged, describe within the following columns:**

05E DJI APR 25 2024 PM2:37

III. SIGNATURE:

Signature of Well Driller

4/24/24
Date

Boundary Raider 6 Fed #2H Battery

Devon Energy
API: 30-025-41881
Lea County, NM
OSE Pod Map
NAPP2312327064

Legend

- 0.85 Miles
- Boundary Raider 6 Fed #2H Battery
- C 04815 POD1



Google Earth

Image © 2025 Airbus



2000 ft



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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

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

Groundwater levels for the Nation

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

Search Results -- 1 sites found

site_no list =

- 321952103400801

Minimum number of levels = 1

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

USGS 321952103400801 23S.32E.03.311114

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°19'59.2", Longitude 103°40'12.6" NAD83

Land-surface elevation 3,648.00 feet above NGVD29

The depth of the well is 630 feet below land surface.

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

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

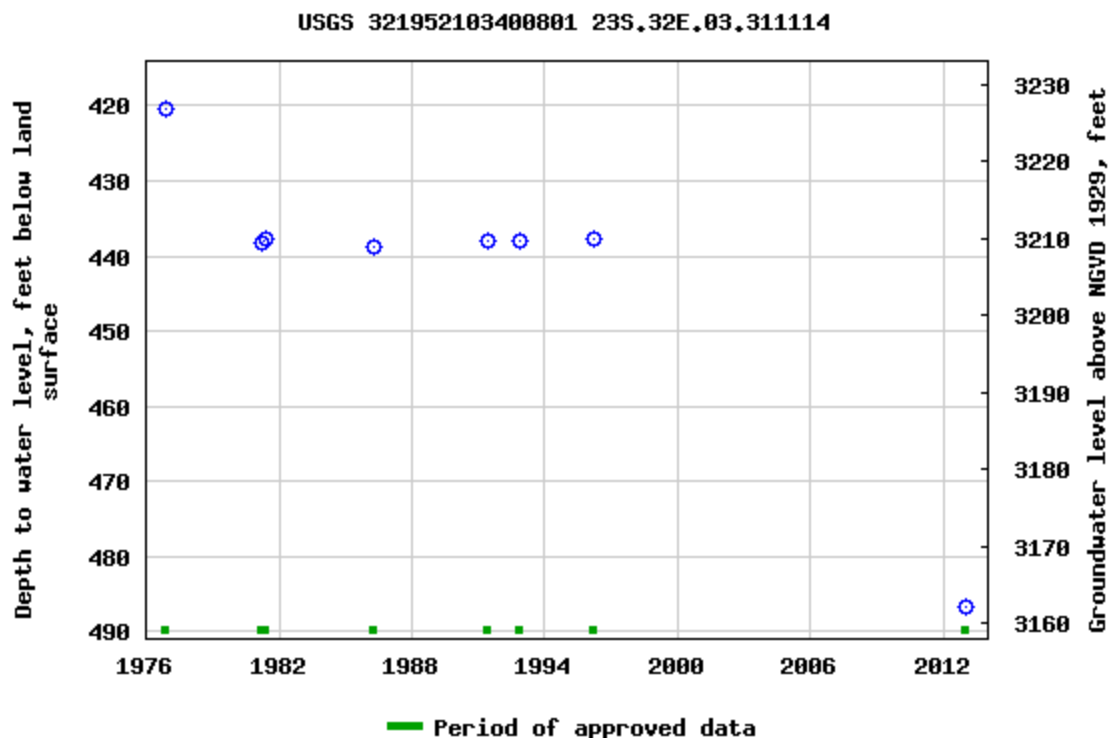
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

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Breaks in the plot represent a gap of at least one year between field measurements.
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URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



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




Page Last Modified: 2025-01-16 13:11:53 EST


0.68 0.52 nadww01


Boundary Raider 6 Fed #2H Battery

Devon Energy
API: 30-025-41881
Lea County, NM
USGS Map
NAPP2312327064

Legend

-  2.15 Miles
-  Boundary Raider 6 Fed #2H Battery
-  USGS 321952103400801

 Boundary Raider 6 Fed #2H Battery

 USGS 321952103400801

Google Earth

Image © 2025 Airbus

Released to Imaging: 6/5/2025 9:24:10 AM

1 mi

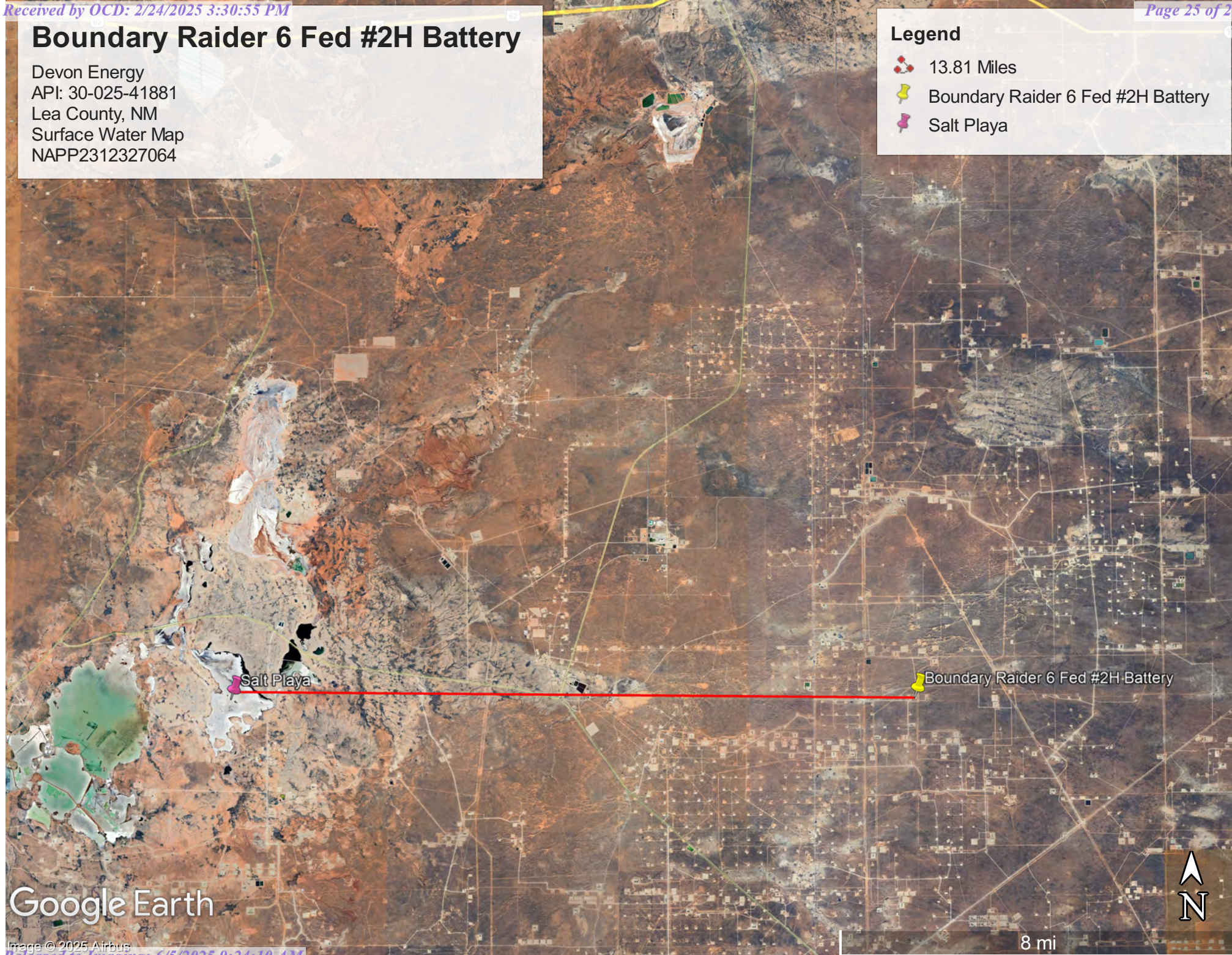


Boundary Raider 6 Fed #2H Battery

Devon Energy
API: 30-025-41881
Lea County, NM
Surface Water Map
NAPP2312327064

Legend

- 13.81 Miles
- Boundary Raider 6 Fed #2H Battery
- Salt Playa



Google Earth

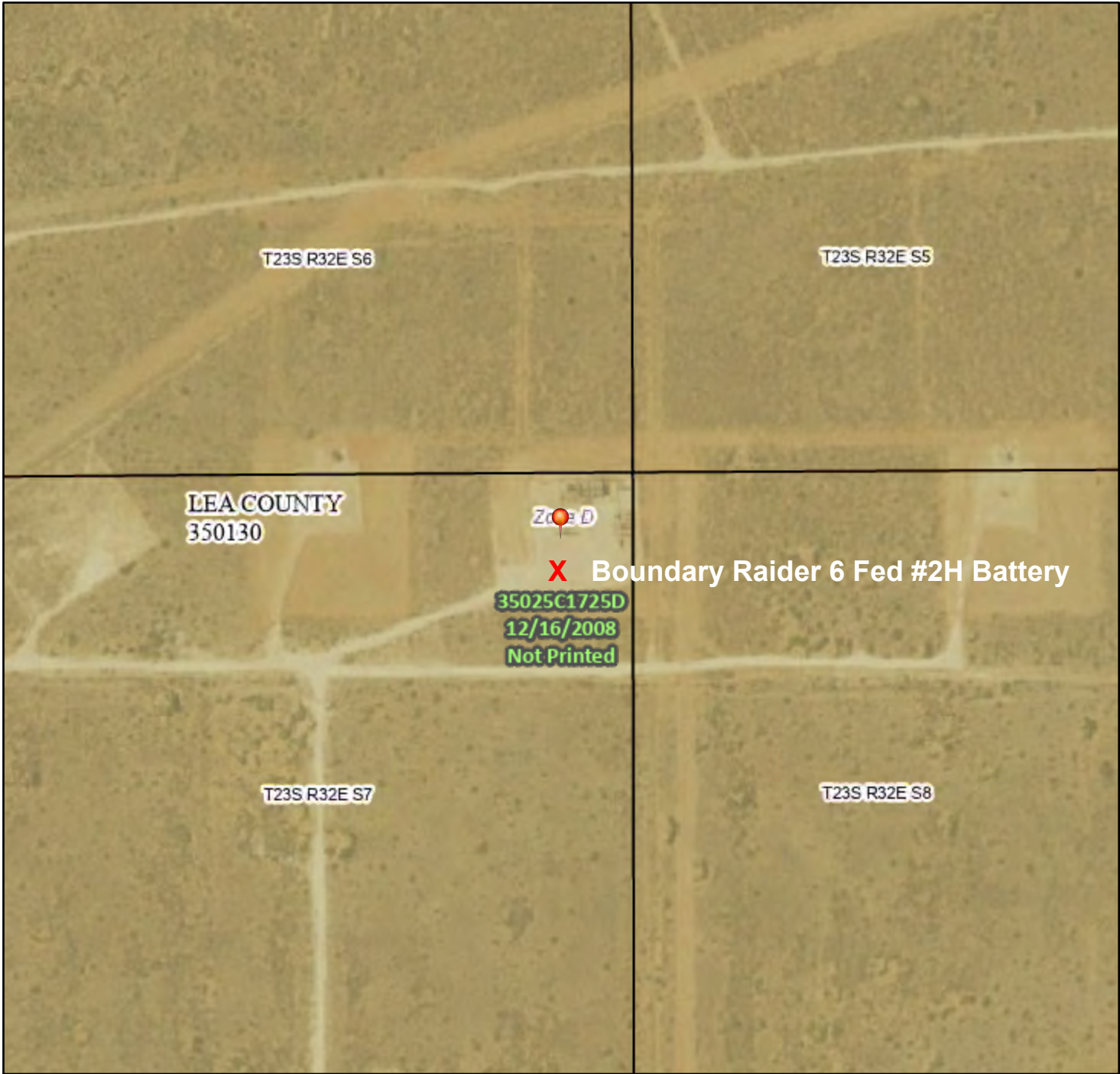
Image © 2025 Airbus

8 mi

National Flood Hazard Layer FIRMMette



103°42'40"W 32°19'48"N



Legend

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

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

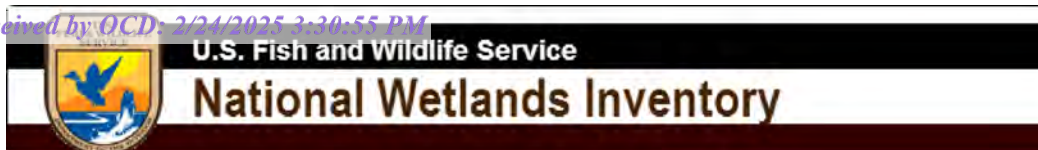


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

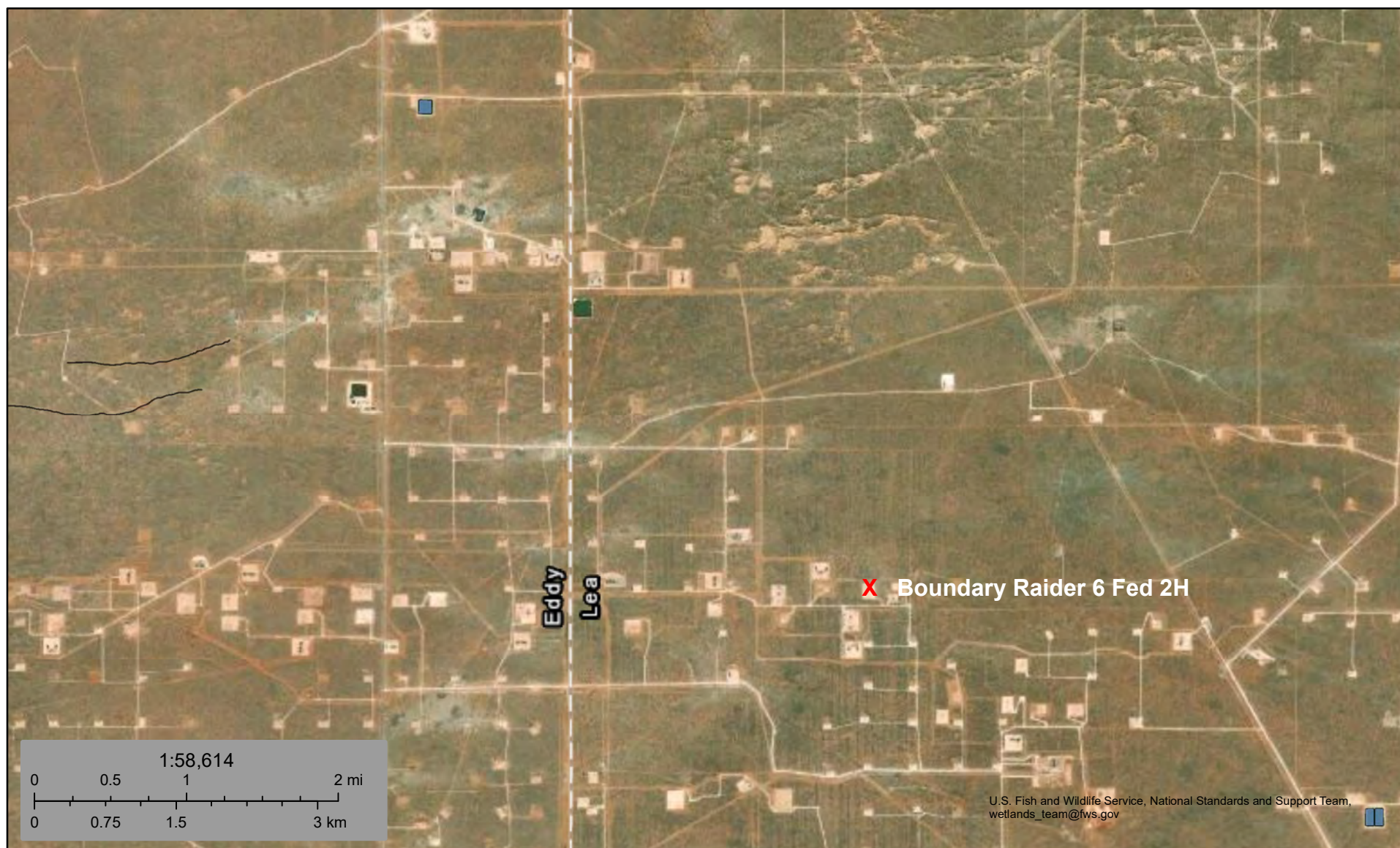
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/16/2025 at 6:14 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



May 3, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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

APPENDIX B

Soil Survey Geological Data



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

Boundary Raider 6 Federal #002H | NAPP2312327064

DEVON ENERGY PRODUCTION, LP.

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

Lea County, New Mexico

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq

Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 12 inches

Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent

Maljamar and similar soils: 44 percent

Minor components: 10 percent

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

Description of Pyote

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand

Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High
(2.00 to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Gypsum, maximum content: 1 percent

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

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): 6e

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

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

Description of Maljamar

Setting

Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand
Bt - 24 to 50 inches: sandy clay loam
Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very low
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: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

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

Minor Components

Kermit

Percent of map unit: 10 percent
Ecological site: R070BC022NM - Sandhills

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 21, Sep 3, 2024

Soil Map—Lea County, New Mexico



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

1/16/2025
Page 1 of 3

Soil Map—Lea County, New Mexico

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 21, Sep 3, 2024

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

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

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PU	Pyote and Maljamar fine sands	11.9	100.0%
Totals for Area of Interest		11.9	100.0%

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

Mineral Resources (<https://www.usgs.gov/energy-and-minerals/mineral-resources-program>)

/ Online Spatial Data (/) / Geology (/geology/) / by state (/geology/state/)

/ New Mexico (/geology/state/state.php?state=NM)

Eolian and piedmont deposits

XML (/geology/state/xml/NMQep;0)

JSON (/geology/state/json/NMQep;0)

Shapefile (/geology/state/unit-shape.php?unit=NMQep;0)

Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits.

State New Mexico (/geology/state/state.php?state=NM)

Name Eolian and piedmont deposits

Geologic age Holocene to middle Pleistocene

Lithologic constituents Major
Unconsolidated (Eolian) Interlayered eolian sands and piedmont-slope deposits

References New Mexico Bureau of Geology and Mineral Resources, 2003, Geologic Map of New Mexico, scale 1:500,000 (includes some new polygons, faults, and attributes not in NM001 - heads up digitizing by JHorton).

NGMDB product NGMDB product page for 22974
(https://ngmdb.usgs.gov/Prodesc/proddesc_22974.htm)

Counties Chaves (/geology/state/fips-unit.php?code=f35005) - DeBaca (/geology/state/fips-unit.php?code=f35011) - Eddy (/geology/state/fips-unit.php?code=f35015) - Lea (/geology/state/fips-unit.php?code=f35025) - Roosevelt (/geology/state/fips-unit.php?code=f35041)

DOI Privacy Policy (<https://www.doi.gov/privacy>) | Legal (https://www.usgs.gov/laws/policies_notices.html) |

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

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

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




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

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

Boundary Raider 6 Fed #2H Battery

Devon Energy
API: 30-025-41881
Lea County, NM
Geological Map
NAPP2312327064

Legend

-  Boundary Raider 6 Fed #2H Battery
-  Eolian and piedmont deposits
-  Piedmont alluvial deposits

Google Earth

Image © 2025 Airbus

Released to Imaging: 6/5/2025 9:24:10 AM

Boundary Raider 6 Fed #2H Battery



3 mi

APPENDIX C

C-141 Form 48-Hour Sampling Notification



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

Boundary Raider 6 Federal #002H | NAPP2312327064

DEVON ENERGY PRODUCTION, LP.

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	nAPP2312327064
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Dale Woodall	Contact Telephone 575-748-1838
Contact email dale.woodall@dvn.com	Incident # (assigned by OCD) nAPP2312327064
Contact mailing address 205 E. Bender Road. #150; Hobbs, NM 88240	

Location of Release Source

Latitude 32.3256416 Longitude -103.7059097
(NAD 83 in decimal degrees to 5 decimal places)

Site Name BOUNDARY RAIDER 6 FED 2H	Site Type BATTERY
Date Release Discovered 5/2/2023	API# (if applicable) 30-025-41884

Unit Letter	Section	Township	Range	County
A	07	23S	32E	LEA

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 type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input checked="" type="checkbox"/> Other (describe)	Volume/Weight Released (provide units) 0.1 bbls Clairiant phasetreat	Volume/Weight Recovered (provide units) 0 bbls

Cause of Release Operator found a stainless steel chemical line that was broken at a 1" valve. The chemical sprayed over 98' x 80' by 1/16" on and off location. The well was shut in and the line was isolated to stop the leak. The chemical was Phasetreat 6219 by Clariant.

Incident ID	nAPP2312327064
District RP	
Facility ID	
Application ID	

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

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Dale Woodall	Title: Env. Professional
Signature: <u>Dale Woodall</u>	Date: <u>8/24/2023</u>
email: <u>dale.woodall@dvn.com</u>	Telephone: <u>575-748-1838</u>
<u>OCD Only</u>	
Received by: <u>Shelly Wells</u>	Date: <u>8/24/2023</u>

Boundary Raider 6-2 battery

May 2, 2023

nAPP2312327064

Spill Volume(Bbls) Calculator		
<i>Inputs in blue, Outputs in red</i>		
Contaminated Soil measurement		
Length(Ft)	Width(Ft)	Depth(Ft)
98	80.000	0.005
Cubic Feet of Soil Impacted		39.200
Impacted		6.99
Soil Type		Clay/Sand
Barrels of Oil Assuming 100% Saturation		1.05
Saturation	Damp no fluid when squeezed	
Estimated Barrels of Oil Released		0.10
Free Standing Fluid Only		
Length(Ft)	Width(Ft)	Depth(Ft)
0	0.000	0.000
Standing fluid		0.000
Total fluids spilled		0.000

Instructions	
1. Input spill area measurements in feet, if less than one foot use converter below.	
2. Select a soil type from the drop down menu.	
3. Select a saturation level from the drop down menu.	
(For data gathering instructions see appendix tab)	

Inches to Feet Converter		
	Inches	Feet
Length		0.000
Width		0.000
Height	0.0625	0.005

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 257097

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 257097
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	8/24/2023

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 430435

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 430435
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2312327064
Incident Name	NAPP2312327064 BOUNDARY RAIDER 6 FEDERAL #002H @ 30-025-41884
Incident Type	Release Other
Incident Status	Initial C-141 Approved
Incident Well	[30-025-41884] BOUNDARY RAIDER 6 FEDERAL #002H
Incident Facility	[fAPP2123645331] BOUNDARY RAIDER 6 FED 2H BATTERY

Location of Release Source	
Site Name	BOUNDARY RAIDER 6 FEDERAL #002H
Date Release Discovered	05/02/2023
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	4,077
What is the estimated number of samples that will be gathered	26
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/13/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Andrew Franco -806-200-0054
Please provide any information necessary for navigation to sampling site	From the intersection of Red Rd and Mills Ranch Rd Travel south on Red Rd for 2.30 Miles, Turn East on lease rd for 1.89 miles, turn Northeast on lease rd for 0.12 of a mile, arriving at location.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 430435

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 430435
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jralej	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/11/2025

APPENDIX D

Photographic Documentation



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

Boundary Raider 6 Federal #002H | NAPP2312327064

DEVON ENERGY PRODUCTION, LP.

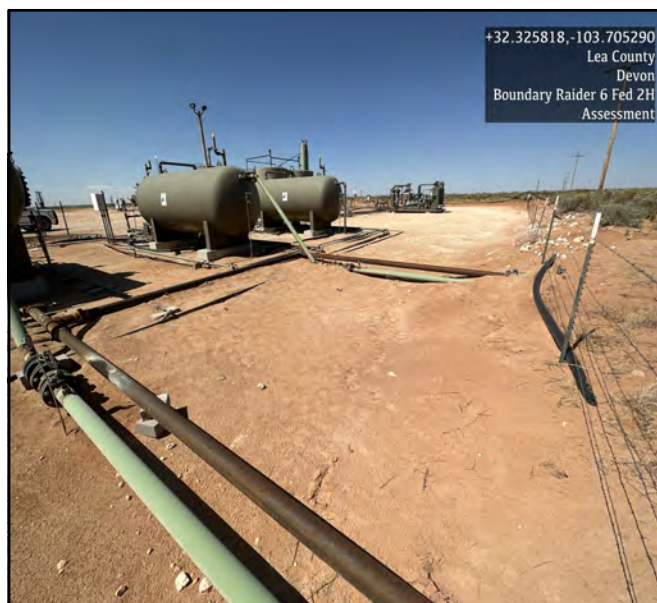
PHOTOGRAPHIC DOCUMENTATION

SITE NAME: Boundary Raider 6 Fed 2H

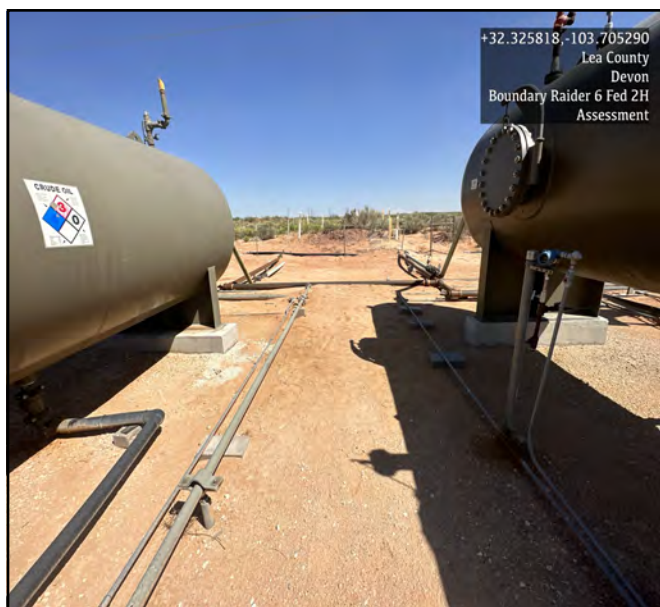
Assessment :



Site Information Sign.



Photograph of site tech assessing the area.



Photograph of site tech assessing the area.



Photograph of site tech assessing the area.



Photograph of site tech assessing the area.

PHOTOGRAPHIC DOCUMENTATION

SITE NAME: Boundary Raider 6 Fed 2H

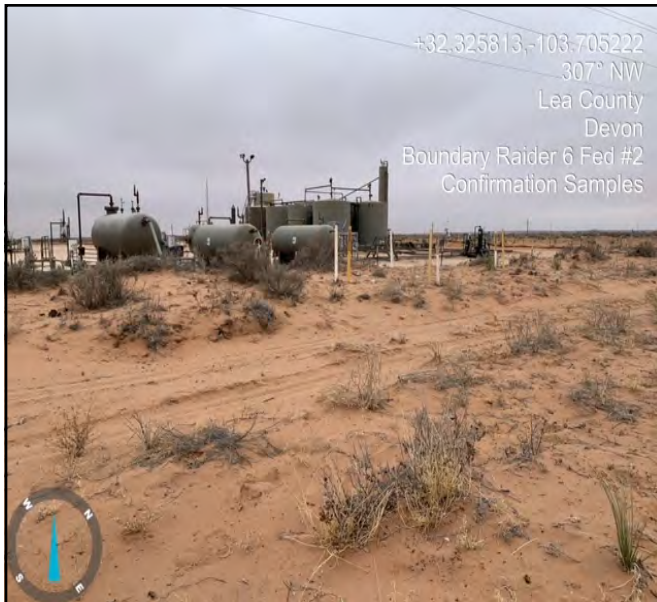
Confirmation Samples :



Photograph captured indicating where confirmation samples were taken.



Photograph captured indicating where confirmation samples were taken.



Photograph captured indicating where confirmation samples were taken, facing northwest.



Photograph captured indicating where confirmation samples were taken, facing east.



Photograph take during confirmation sampling, facing north.



Photograph take during confirmation sampling, facing east.



Photograph take during confirmation sampling, facing west.

APPENDIX E

Laboratory Reports



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

Boundary Raider 6 Federal #002H | NAPP2312327064

DEVON ENERGY PRODUCTION, LP.

Report to:
Gio Gomez



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Boundary Raider 6 Fed 2H

Work Order: E405282

Job Number: 01058-0007

Received: 5/21/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/31/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 5/31/24

Gio Gomez
PO Box 247
Plains, TX 79355-0247



Project Name: Boundary Raider 6 Fed 2H
Workorder: E405282
Date Received: 5/21/2024 8:00:00AM

Gio Gomez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/21/2024 8:00:00AM, under the Project Name: Boundary Raider 6 Fed 2H.

The analytical test results summarized in this report with the Project Name: Boundary Raider 6 Fed 2H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Alexa Michaels
Sample Custody Officer
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labadmin@envirotech-inc.com

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Office: 505-421-LABS(5227)
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ljjarboe@envirotech-inc.com

Michelle Golzaes
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Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	05/31/24 16:14

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - 1'	E405282-01A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
S1 - 2'	E405282-02A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
S1 - 3'	E405282-03A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
S1 - 4'	E405282-04A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
S2 - 1'	E405282-05A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
S2 - 2'	E405282-06A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
S2 - 3'	E405282-07A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
S2 - 4'	E405282-08A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
S3 - 1'	E405282-09A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
S3 - 2'	E405282-10A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
S3 - 3'	E405282-11A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
S3 - 4'	E405282-12A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
S4 - 1'	E405282-13A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
S4 - 2'	E405282-14A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
S4 - 3'	E405282-15A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
S4 - 4'	E405282-16A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
S5 - 1'	E405282-17A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
S5 - 2'	E405282-18A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
S5 - 3'	E405282-19A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
S5 - 4'	E405282-20A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/31/2024 4:14:54PM

S1 - 1'

E405282-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2421144	
Benzene	ND	0.0250	1	05/24/24	05/28/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/28/24	
Toluene	ND	0.0250	1	05/24/24	05/28/24	
o-Xylene	ND	0.0250	1	05/24/24	05/28/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/28/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.7 %	70-130	05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2421144	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		106 %	70-130	05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2422064	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/30/24	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	05/29/24	05/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2421180	
Chloride	ND	20.0	1	05/25/24	05/25/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported: 5/31/2024 4:14:54PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S1 - 2'

E405282-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2421144	
Benzene	ND	0.0250	1	05/24/24	05/28/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/28/24	
Toluene	ND	0.0250	1	05/24/24	05/28/24	
o-Xylene	ND	0.0250	1	05/24/24	05/28/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/28/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/28/24	
Surrogate: 4-Bromochlorobenzene-PID	91.6 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2421144	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2422064	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/30/24	
Surrogate: n-Nonane	103 %	50-200		05/29/24	05/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2421180	
Chloride	ND	20.0	1	05/25/24	05/25/24	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/31/2024 4:14:54PM

S1 - 3'

E405282-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421144
Benzene	ND	0.0250	1	05/24/24	05/28/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/28/24	
Toluene	ND	0.0250	1	05/24/24	05/28/24	
o-Xylene	ND	0.0250	1	05/24/24	05/28/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/28/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.8 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421144
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2422064
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/30/24	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		05/29/24	05/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421180
Chloride	ND	20.0	1	05/25/24	05/25/24	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/31/2024 4:14:54PM

S1 - 4'

E405282-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421144
Benzene	ND	0.0250	1	05/24/24	05/28/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/28/24	
Toluene	ND	0.0250	1	05/24/24	05/28/24	
o-Xylene	ND	0.0250	1	05/24/24	05/28/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/28/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.7 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421144
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2422064
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/30/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		05/29/24	05/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421180
Chloride	ND	20.0	1	05/25/24	05/25/24	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/31/2024 4:14:54PM

S2 - 1'

E405282-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421144
Benzene	ND	0.0250	1	05/24/24	05/28/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/28/24	
Toluene	ND	0.0250	1	05/24/24	05/28/24	
o-Xylene	ND	0.0250	1	05/24/24	05/28/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/28/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.0 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421144
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2422064
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/30/24	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		05/29/24	05/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421180
Chloride	ND	20.0	1	05/25/24	05/25/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Boundary Raider 6 Fed 2H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 5/31/2024 4:14:54PM
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S2 - 2'

E405282-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2421144	
Benzene	ND	0.0250	1	05/24/24	05/28/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/28/24	
Toluene	ND	0.0250	1	05/24/24	05/28/24	
o-Xylene	ND	0.0250	1	05/24/24	05/28/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/28/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/28/24	
Surrogate: 4-Bromochlorobenzene-PID	90.5 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2421144	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2422064	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/30/24	
Surrogate: n-Nonane	105 %	50-200		05/29/24	05/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2421180	
Chloride	ND	20.0	1	05/25/24	05/25/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported: 5/31/2024 4:14:54PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S2 - 3'

E405282-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2421144	
Benzene	ND	0.0250	1	05/24/24	05/28/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/28/24	
Toluene	ND	0.0250	1	05/24/24	05/28/24	
o-Xylene	ND	0.0250	1	05/24/24	05/28/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/28/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/28/24	
Surrogate: 4-Bromochlorobenzene-PID	91.0 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2421144	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2422064	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/30/24	
Surrogate: n-Nonane	106 %	50-200		05/29/24	05/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2421180	
Chloride	ND	20.0	1	05/25/24	05/25/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported: 5/31/2024 4:14:54PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S2 - 4'

E405282-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2421144	
Benzene	ND	0.0250	1	05/24/24	05/28/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/28/24	
Toluene	ND	0.0250	1	05/24/24	05/28/24	
o-Xylene	ND	0.0250	1	05/24/24	05/28/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/28/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/28/24	
Surrogate: 4-Bromochlorobenzene-PID	90.5 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2421144	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2422064	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/30/24	
Surrogate: n-Nonane	102 %	50-200		05/29/24	05/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2421180	
Chloride	ND	20.0	1	05/25/24	05/25/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Boundary Raider 6 Fed 2H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 5/31/2024 4:14:54PM
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S3 - 1'

E405282-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2421144	
Benzene	ND	0.0250	1	05/24/24	05/28/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/28/24	
Toluene	ND	0.0250	1	05/24/24	05/28/24	
o-Xylene	ND	0.0250	1	05/24/24	05/28/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/28/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/28/24	
Surrogate: 4-Bromochlorobenzene-PID	91.0 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2421144	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	109 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2422064	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/30/24	
Surrogate: n-Nonane	106 %	50-200		05/29/24	05/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2421180	
Chloride	ND	20.0	1	05/25/24	05/25/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported: 5/31/2024 4:14:54PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S3 - 2'

E405282-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2421144	
Benzene	ND	0.0250	1	05/24/24	05/28/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/28/24	
Toluene	ND	0.0250	1	05/24/24	05/28/24	
o-Xylene	ND	0.0250	1	05/24/24	05/28/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/28/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.6 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2421144	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2422064	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/30/24	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		05/29/24	05/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2421180	
Chloride	ND	20.0	1	05/25/24	05/25/24	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/31/2024 4:14:54PM

S3 - 3'

E405282-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421144
Benzene	ND	0.0250	1	05/24/24	05/28/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/28/24	
Toluene	ND	0.0250	1	05/24/24	05/28/24	
o-Xylene	ND	0.0250	1	05/24/24	05/28/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/28/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.3 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421144
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2422064
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/30/24	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		05/29/24	05/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421180
Chloride	ND	20.0	1	05/25/24	05/25/24	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/31/2024 4:14:54PM

S3 - 4'

E405282-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421144
Benzene	ND	0.0250	1	05/24/24	05/28/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/28/24	
Toluene	ND	0.0250	1	05/24/24	05/28/24	
o-Xylene	ND	0.0250	1	05/24/24	05/28/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/28/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.8 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421144
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2422064
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/31/24	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		05/29/24	05/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421180
Chloride	ND	20.0	1	05/25/24	05/25/24	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/31/2024 4:14:54PM

S4 - 1'

E405282-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421144
Benzene	ND	0.0250	1	05/24/24	05/28/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/28/24	
Toluene	ND	0.0250	1	05/24/24	05/28/24	
o-Xylene	ND	0.0250	1	05/24/24	05/28/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/28/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.4 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421144
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	109 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2422064
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/31/24	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		05/29/24	05/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421180
Chloride	ND	20.0	1	05/25/24	05/25/24	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/31/2024 4:14:54PM

S4 - 2'

E405282-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421144
Benzene	ND	0.0250	1	05/24/24	05/28/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/28/24	
Toluene	ND	0.0250	1	05/24/24	05/28/24	
o-Xylene	ND	0.0250	1	05/24/24	05/28/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/28/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/28/24	
Surrogate: 4-Bromochlorobenzene-PID	91.4 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421144
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	110 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2422064
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/31/24	
Surrogate: n-Nonane	106 %	50-200		05/29/24	05/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421180
Chloride	ND	20.0	1	05/25/24	05/25/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported: 5/31/2024 4:14:54PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S4 - 3'

E405282-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2421144	
Benzene	ND	0.0250	1	05/24/24	05/28/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/28/24	
Toluene	ND	0.0250	1	05/24/24	05/28/24	
o-Xylene	ND	0.0250	1	05/24/24	05/28/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/28/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/28/24	
Surrogate: 4-Bromochlorobenzene-PID	90.7 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2421144	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	109 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2422064	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/31/24	
Surrogate: n-Nonane	107 %	50-200		05/29/24	05/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2421180	
Chloride	ND	20.0	1	05/25/24	05/25/24	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/31/2024 4:14:54PM

S4 - 4'

E405282-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421144
Benzene	ND	0.0250	1	05/24/24	05/28/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/28/24	
Toluene	ND	0.0250	1	05/24/24	05/28/24	
o-Xylene	ND	0.0250	1	05/24/24	05/28/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/28/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.3 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421144
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	108 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2422064
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/31/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		05/29/24	05/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421180
Chloride	ND	20.0	1	05/25/24	05/25/24	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/31/2024 4:14:54PM

S5 - 1'

E405282-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421144
Benzene	ND	0.0250	1	05/24/24	05/28/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/28/24	
Toluene	ND	0.0250	1	05/24/24	05/28/24	
o-Xylene	ND	0.0250	1	05/24/24	05/28/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/28/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.7 %	70-130	05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421144
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		108 %	70-130	05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2422064
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/31/24	
<i>Surrogate: n-Nonane</i>						
		104 %	50-200	05/29/24	05/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421180
Chloride	ND	20.0	1	05/25/24	05/25/24	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/31/2024 4:14:54PM

S5 - 2'

E405282-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421144
Benzene	ND	0.0250	1	05/24/24	05/28/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/28/24	
Toluene	ND	0.0250	1	05/24/24	05/28/24	
o-Xylene	ND	0.0250	1	05/24/24	05/28/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/28/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.3 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421144
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	108 %	70-130		05/24/24	05/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2422064
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/31/24	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		05/29/24	05/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421180
Chloride	ND	20.0	1	05/25/24	05/25/24	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/31/2024 4:14:54PM

S5 - 3'

E405282-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421144
Benzene	ND	0.0250	1	05/24/24	05/29/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/29/24	
Toluene	ND	0.0250	1	05/24/24	05/29/24	
o-Xylene	ND	0.0250	1	05/24/24	05/29/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/29/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.3 %	70-130		05/24/24	05/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421144
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		05/24/24	05/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2422064
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/31/24	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		05/29/24	05/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421180
Chloride	69.9	20.0	1	05/25/24	05/25/24	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/31/2024 4:14:54PM

S5 - 4'

E405282-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421144
Benzene	ND	0.0250	1	05/24/24	05/29/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/29/24	
Toluene	ND	0.0250	1	05/24/24	05/29/24	
o-Xylene	ND	0.0250	1	05/24/24	05/29/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/29/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/29/24	
Surrogate: 4-Bromochlorobenzene-PID	92.4 %	70-130		05/24/24	05/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421144
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		05/24/24	05/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2422064
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/31/24	
Surrogate: n-Nonane	106 %	50-200		05/29/24	05/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421180
Chloride	ND	20.0	1	05/25/24	05/26/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/31/2024 4:14:54PM

Volatile Organics by EPA 8021B

Analyst: RKS

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

Blank (2421144-BLK1)

Prepared: 05/24/24 Analyzed: 05/28/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130			

LCS (2421144-BS1)

Prepared: 05/24/24 Analyzed: 05/28/24

Benzene	5.12	0.0250	5.00		102	70-130			
Ethylbenzene	4.91	0.0250	5.00		98.2	70-130			
Toluene	5.10	0.0250	5.00		102	70-130			
o-Xylene	5.00	0.0250	5.00		100	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.42		8.00		92.8	70-130			

LCS Dup (2421144-BSD1)

Prepared: 05/24/24 Analyzed: 05/28/24

Benzene	5.11	0.0250	5.00		102	70-130	0.266	20	
Ethylbenzene	4.90	0.0250	5.00		97.9	70-130	0.310	20	
Toluene	5.09	0.0250	5.00		102	70-130	0.359	20	
o-Xylene	4.99	0.0250	5.00		99.8	70-130	0.127	20	
p,m-Xylene	10.1	0.0500	10.0		101	70-130	0.360	20	
Total Xylenes	15.1	0.0250	15.0		100	70-130	0.283	20	
Surrogate: 4-Bromochlorobenzene-PID	7.40		8.00		92.5	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/31/2024 4:14:54PM

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 (2421144-BLK1) Prepared: 05/24/24 Analyzed: 05/28/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.41		8.00		105	70-130			

LCS (2421144-BS2) Prepared: 05/24/24 Analyzed: 05/28/24

Gasoline Range Organics (C6-C10)	54.7	20.0	50.0		109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.66		8.00		108	70-130			

LCS Dup (2421144-BSD2) Prepared: 05/24/24 Analyzed: 05/28/24

Gasoline Range Organics (C6-C10)	55.7	20.0	50.0		111	70-130	1.71	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.68		8.00		109	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/31/2024 4:14:54PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2422064-BLK1) Prepared: 05/29/24 Analyzed: 05/30/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.2		50.0		102	50-200			

LCS (2422064-BS1) Prepared: 05/29/24 Analyzed: 05/30/24

Diesel Range Organics (C10-C28)	296	25.0	250		118	38-132			
Surrogate: n-Nonane	51.3		50.0		103	50-200			

LCS Dup (2422064-BSD1) Prepared: 05/29/24 Analyzed: 05/30/24

Diesel Range Organics (C10-C28)	300	25.0	250		120	38-132	1.49	20	
Surrogate: n-Nonane	51.1		50.0		102	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/31/2024 4:14:54PM

Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2421180-BLK1)					Prepared: 05/25/24 Analyzed: 05/25/24				
Chloride	ND	20.0							
LCS (2421180-BS1)					Prepared: 05/25/24 Analyzed: 05/25/24				
Chloride	256	20.0	250		102	90-110			
LCS Dup (2421180-BSD1)					Prepared: 05/25/24 Analyzed: 05/25/24				
Chloride	256	20.0	250		102	90-110	0.119	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:	Boundary Raider 6 Fed 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	05/31/24 16:14

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



Project Information

Chain of Custody

Page 2 of 4

Client: Pima Environmental Services
 Project: Boundary Raider 6 Fed #2H
 Project Manager: Glo Gomez
 Address: 5614 N. Lovington Hwy.
 City, State, Zip: Hobbs, NM, 88240
 Phone: 806-782-1151
 Email: glo@pimeco.com
 Report due by:

Bill To
 Attention: Devon
 Address:
 City, State, Zip
 Phone:
 Email:
 Pima Project # 1-118-1

E405282 D108B-10007

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		TAT								EPA Program	
						1D	2D	3D	Standard	CWA	SDWA	RCRA	State	NM	CO
10:25	5/17	S		S3-3'	11										
10:36				S3-4'	12										
10:45				S4-1'	13										
10:52				S4-2'	14										
11:07				S4-3'	15										
11:12				S4-4'	16										
11:20				S5-1'	17										
11:27				S5-2'	18										
11:38				S5-3'	19										
11:46				S5-4'	20										

Additional Instructions:

B# 29030947

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

Sampled by:

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

Relinquished by: (Signature) Kerime Azme	Date 5/20/24	Time 1:14	Received by: (Signature) Michelle Gonzales	Date 5/20/24	Time 1:14	Lab Use Only
Relinquished by: (Signature) Michelle Gonzales	Date 5/20/24	Time 1:45	Received by: (Signature) J.H.	Date 5/20/24	Time 1:45	Received on ice: (Y) / N
Relinquished by: (Signature) J.H.	Date 5.20.24	Time 1:45	Received by: (Signature) J.H.	Date 5/21/24	Time 0800	Received on ice: (Y) / N

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

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

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



Envirotech Analytical Laboratory

Printed: 5/23/2024 10:22:57AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	05/21/24 08:00	Work Order ID:	E405282
Phone:	(575) 631-6977	Date Logged In:	05/20/24 18:06	Logged In By:	Alexa Michaels
Email:	gio@pimaoil.com	Due Date:	05/27/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: Courier**Comments/Resolution**

No. of containers not documented on COC by client. Project Boundary Raider 6 Fed #2H has been separated into two reports due to high sample volume, WO are E405282 and E405283.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Gio Gomez



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Boundary Raider 6 Fed 2H

Work Order: E405283

Job Number: 01058-0007

Received: 5/21/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/31/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 5/31/24

Gio Gomez
PO Box 247
Plains, TX 79355-0247



Project Name: Boundary Raider 6 Fed 2H
Workorder: E405283
Date Received: 5/21/2024 8:00:00AM

Gio Gomez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/21/2024 8:00:00AM, under the Project Name: Boundary Raider 6 Fed 2H.

The analytical test results summarized in this report with the Project Name: Boundary Raider 6 Fed 2H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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mgonzales@envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported: 05/31/24 16:14
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S6 - 1'	E405283-01A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
S6 - 2'	E405283-02A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
S6 - 3'	E405283-03A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
S6 - 4'	E405283-04A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
S7 - 1'	E405283-05A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
S7 - 2'	E405283-06A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
S7 - 3'	E405283-07A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
S7 - 4'	E405283-08A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
SW1	E405283-09A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
SW2	E405283-10A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
SW3	E405283-11A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
SW4	E405283-12A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
SW5	E405283-13A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
SW6	E405283-14A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
BG1	E405283-15A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/31/2024 4:14:09PM

S6 - 1'

E405283-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Benzene	ND	0.0250	1	05/24/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/25/24	
Toluene	ND	0.0250	1	05/24/24	05/25/24	
o-Xylene	ND	0.0250	1	05/24/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/25/24	
<i>Surrogate: Bromofluorobenzene</i>		108 %	70-130	05/24/24	05/25/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.4 %	70-130	05/24/24	05/25/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/25/24	
<i>Surrogate: Bromofluorobenzene</i>		108 %	70-130	05/24/24	05/25/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.4 %	70-130	05/24/24	05/25/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2422063
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/30/24	
<i>Surrogate: n-Nonane</i>		109 %	50-200	05/29/24	05/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421172
Chloride	63.9	20.0	1	05/24/24	05/24/24	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/31/2024 4:14:09PM

S6 - 2'

E405283-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Benzene	ND	0.0250	1	05/24/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/25/24	
Toluene	ND	0.0250	1	05/24/24	05/25/24	
o-Xylene	ND	0.0250	1	05/24/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		112 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		91.5 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		104 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		112 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		91.5 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		104 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2422063
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/30/24	
Surrogate: n-Nonane		108 %	50-200	05/29/24	05/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421172
Chloride	ND	20.0	1	05/24/24	05/24/24	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/31/2024 4:14:09PM

S6 - 3'

E405283-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Benzene	ND	0.0250	1	05/24/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/25/24	
Toluene	ND	0.0250	1	05/24/24	05/25/24	
o-Xylene	ND	0.0250	1	05/24/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		110 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		91.3 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		105 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		110 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		91.3 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		105 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2422063
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/30/24	
Surrogate: n-Nonane		106 %	50-200	05/29/24	05/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421172
Chloride	66.2	20.0	1	05/24/24	05/24/24	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/31/2024 4:14:09PM

S6 - 4'

E405283-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Benzene	ND	0.0250	1	05/24/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/25/24	
Toluene	ND	0.0250	1	05/24/24	05/25/24	
o-Xylene	ND	0.0250	1	05/24/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		110 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		90.7 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		106 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		110 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		90.7 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		106 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2422063
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/30/24	
Surrogate: n-Nonane		107 %	50-200	05/29/24	05/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421172
Chloride	ND	20.0	1	05/24/24	05/25/24	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/31/2024 4:14:09PM

S7 - 1'

E405283-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Benzene	ND	0.0250	1	05/24/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/25/24	
Toluene	ND	0.0250	1	05/24/24	05/25/24	
o-Xylene	ND	0.0250	1	05/24/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		108 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		91.2 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		106 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		108 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		91.2 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		106 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2422063
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/30/24	
Surrogate: n-Nonane		109 %	50-200	05/29/24	05/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421172
Chloride	29.8	20.0	1	05/24/24	05/25/24	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/31/2024 4:14:09PM

S7 - 2'

E405283-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Benzene	ND	0.0250	1	05/24/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/25/24	
Toluene	ND	0.0250	1	05/24/24	05/25/24	
o-Xylene	ND	0.0250	1	05/24/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		108 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		89.1 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		107 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		108 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		89.1 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		107 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2422063
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/31/24	
Surrogate: n-Nonane		107 %	50-200	05/29/24	05/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421172
Chloride	ND	20.0	1	05/24/24	05/25/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Boundary Raider 6 Fed 2H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 5/31/2024 4:14:09PM
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S7 - 3'

E405283-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Benzene	ND	0.0250	1	05/24/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/25/24	
Toluene	ND	0.0250	1	05/24/24	05/25/24	
o-Xylene	ND	0.0250	1	05/24/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		108 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		90.2 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		106 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		108 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		90.2 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		106 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2422063
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/31/24	
Surrogate: n-Nonane		113 %	50-200	05/29/24	05/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421172
Chloride	ND	20.0	1	05/24/24	05/25/24	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/31/2024 4:14:09PM

S7 - 4'

E405283-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Benzene	ND	0.0250	1	05/24/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/25/24	
Toluene	ND	0.0250	1	05/24/24	05/25/24	
o-Xylene	ND	0.0250	1	05/24/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		112 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		89.9 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		106 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		112 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		89.9 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		106 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2422063
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/31/24	
Surrogate: n-Nonane		108 %	50-200	05/29/24	05/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421172
Chloride	ND	20.0	1	05/24/24	05/25/24	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/31/2024 4:14:09PM

SW1

E405283-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Benzene	ND	0.0250	1	05/24/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/25/24	
Toluene	ND	0.0250	1	05/24/24	05/25/24	
o-Xylene	ND	0.0250	1	05/24/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		109 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		89.8 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		106 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		109 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		89.8 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		106 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2422063
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/31/24	
Surrogate: n-Nonane		109 %	50-200	05/29/24	05/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421172
Chloride	ND	20.0	1	05/24/24	05/25/24	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/31/2024 4:14:09PM

SW2

E405283-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Benzene	ND	0.0250	1	05/24/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/25/24	
Toluene	ND	0.0250	1	05/24/24	05/25/24	
o-Xylene	ND	0.0250	1	05/24/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		111 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		89.4 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		106 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		111 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		89.4 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		106 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2422063
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/31/24	
Surrogate: n-Nonane		109 %	50-200	05/29/24	05/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421172
Chloride	ND	20.0	1	05/24/24	05/25/24	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/31/2024 4:14:09PM

SW3

E405283-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Benzene	ND	0.0250	1	05/24/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/25/24	
Toluene	ND	0.0250	1	05/24/24	05/25/24	
o-Xylene	ND	0.0250	1	05/24/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		108 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		91.7 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		106 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		108 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		91.7 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		106 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2422063
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/31/24	
Surrogate: n-Nonane		108 %	50-200	05/29/24	05/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421172
Chloride	ND	20.0	1	05/24/24	05/25/24	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/31/2024 4:14:09PM

SW4

E405283-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Benzene	ND	0.0250	1	05/24/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/25/24	
Toluene	ND	0.0250	1	05/24/24	05/25/24	
o-Xylene	ND	0.0250	1	05/24/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		111 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		92.3 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		106 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		111 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		92.3 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		106 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2422063
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/31/24	
Surrogate: n-Nonane		108 %	50-200	05/29/24	05/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421172
Chloride	ND	20.0	1	05/24/24	05/25/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported: 5/31/2024 4:14:09PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

SW5

E405283-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Benzene	ND	0.0250	1	05/24/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/25/24	
Toluene	ND	0.0250	1	05/24/24	05/25/24	
o-Xylene	ND	0.0250	1	05/24/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		112 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		88.5 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		105 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		112 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		88.5 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		105 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2422063
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/31/24	
Surrogate: n-Nonane		108 %	50-200	05/29/24	05/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421172
Chloride	ND	20.0	1	05/24/24	05/25/24	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/31/2024 4:14:09PM

SW6

E405283-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Benzene	ND	0.0250	1	05/24/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/25/24	
Toluene	ND	0.0250	1	05/24/24	05/25/24	
o-Xylene	ND	0.0250	1	05/24/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		109 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		92.2 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		104 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		109 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		92.2 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		104 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2422063
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/31/24	
Surrogate: n-Nonane		108 %	50-200	05/29/24	05/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421172
Chloride	ND	20.0	1	05/24/24	05/25/24	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/31/2024 4:14:09PM

BG1

E405283-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Benzene	ND	0.0250	1	05/24/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/25/24	
Toluene	ND	0.0250	1	05/24/24	05/25/24	
o-Xylene	ND	0.0250	1	05/24/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		108 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		88.9 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		105 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421145
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		108 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		88.9 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		105 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2422063
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/24	05/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/29/24	05/31/24	
Surrogate: n-Nonane		108 %	50-200	05/29/24	05/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421172
Chloride	ND	20.0	1	05/24/24	05/25/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/31/2024 4:14:09PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2421145-BLK1)

Prepared: 05/24/24 Analyzed: 05/25/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.551		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.8	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

LCS (2421145-BS1)

Prepared: 05/24/24 Analyzed: 05/25/24

Benzene	1.99	0.0250	2.50		79.6	70-130			
Ethylbenzene	2.20	0.0250	2.50		87.8	70-130			
Toluene	2.24	0.0250	2.50		89.7	70-130			
o-Xylene	2.32	0.0250	2.50		92.8	70-130			
p,m-Xylene	4.53	0.0500	5.00		90.7	70-130			
Total Xylenes	6.85	0.0250	7.50		91.4	70-130			
Surrogate: Bromofluorobenzene	0.568		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			

LCS Dup (2421145-BSD1)

Prepared: 05/24/24 Analyzed: 05/25/24

Benzene	2.13	0.0250	2.50		85.4	70-130	6.96	23	
Ethylbenzene	2.32	0.0250	2.50		92.6	70-130	5.28	27	
Toluene	2.29	0.0250	2.50		91.8	70-130	2.34	24	
o-Xylene	2.45	0.0250	2.50		97.8	70-130	5.27	27	
p,m-Xylene	4.82	0.0500	5.00		96.5	70-130	6.20	27	
Total Xylenes	7.27	0.0250	7.50		96.9	70-130	5.88	27	
Surrogate: Bromofluorobenzene	0.568		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/31/2024 4:14:09PM

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 (2421145-BLK1) Prepared: 05/24/24 Analyzed: 05/25/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.551		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.8	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

LCS (2421145-BS2) Prepared: 05/24/24 Analyzed: 05/25/24

Gasoline Range Organics (C6-C10)	46.3	20.0	50.0		92.7	70-130			
Surrogate: Bromofluorobenzene	0.558		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.459		0.500		91.7	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			

LCS Dup (2421145-BSD2) Prepared: 05/24/24 Analyzed: 05/25/24

Gasoline Range Organics (C6-C10)	52.2	20.0	50.0		104	70-130	11.9	20	
Surrogate: Bromofluorobenzene	0.551		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.452		0.500		90.3	70-130			
Surrogate: Toluene-d8	0.535		0.500		107	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/31/2024 4:14:09PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2422063-BLK1)					Prepared: 05/29/24 Analyzed: 05/30/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.9		50.0		108	50-200			

LCS (2422063-BS1)					Prepared: 05/29/24 Analyzed: 05/30/24				
Diesel Range Organics (C10-C28)	307	25.0	250		123	38-132			
Surrogate: n-Nonane	53.8		50.0		108	50-200			

LCS Dup (2422063-BSD1)					Prepared: 05/29/24 Analyzed: 05/30/24				
Diesel Range Organics (C10-C28)	309	25.0	250		124	38-132	0.468	20	
Surrogate: n-Nonane	53.7		50.0		107	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/31/2024 4:14:09PM

Anions by EPA 300.0/9056A

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 (2421172-BLK1)					Prepared: 05/24/24 Analyzed: 05/24/24				
Chloride	ND	20.0							
LCS (2421172-BS1)					Prepared: 05/24/24 Analyzed: 05/24/24				
Chloride	254	20.0	250		102	90-110			
LCS Dup (2421172-BSD1)					Prepared: 05/24/24 Analyzed: 05/24/24				
Chloride	255	20.0	250		102	90-110	0.582	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:	Boundary Raider 6 Fed 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	05/31/24 16:14

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

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

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







Envirotech Analytical Laboratory

Printed: 5/23/2024 10:37:01AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	05/21/24 08:00	Work Order ID:	E405283
Phone:	(575) 631-6977	Date Logged In:	05/20/24 18:09	Logged In By:	Alexa Michaels
Email:	gio@pimaoil.com	Due Date:	05/27/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client InstructionComments/Resolution

Project Boundary Raider 6 Fed #2H has been separated into two reports due to high sample volume, WO are E405282 and E405283.

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: Boundary Raider 6 Fed 2H

Work Order: E502151

Job Number: 01058-0007

Received: 2/17/2025

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/17/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 2/17/25

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Boundary Raider 6 Fed 2H
Workorder: E502151
Date Received: 2/17/2025 8:00:33AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/17/2025 8:00:33AM, under the Project Name: Boundary Raider 6 Fed 2H.

The analytical test results summarized in this report with the Project Name: Boundary Raider 6 Fed 2H 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
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Cell: 775-287-1762
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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	02/17/25 13:37

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS1	E502151-01A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CS2	E502151-02A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CS3	E502151-03A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CS4	E502151-04A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CS5	E502151-05A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CS6	E502151-06A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CS7	E502151-07A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CS8	E502151-08A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CS9	E502151-09A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CS10	E502151-10A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CS11	E502151-11A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CS12	E502151-12A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CS13	E502151-13A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CS14	E502151-14A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CS15	E502151-15A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CS16	E502151-16A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CS17	E502151-17A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CS18	E502151-18A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CS19	E502151-19A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CS20	E502151-20A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:37:48PM

CS1

E502151-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	84.9 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	90.1 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2507148	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
<i>Surrogate: n-Nonane</i>	107 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2508001	
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:37:48PM

CS2

E502151-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	84.3 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	89.5 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2507148	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
<i>Surrogate: n-Nonane</i>	108 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2508001	
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:37:48PM

CS3

E502151-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	83.2 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.9 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2507148	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
<i>Surrogate: n-Nonane</i>						
	103 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2508001	
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:37:48PM

CS4

E502151-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	83.1 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.6 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2507148	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
<i>Surrogate: n-Nonane</i>						
	102 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2508001	
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:37:48PM

CS5

E502151-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	82.5 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.3 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2507148	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
<i>Surrogate: n-Nonane</i>						
	104 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2508001	
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:37:48PM

CS6

E502151-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: BA		Batch: 2507163
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		82.9 %	70-130	02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: BA		Batch: 2507163
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.0 %	70-130	02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: NV		Batch: 2507148
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
<i>Surrogate: n-Nonane</i>		103 %	61-141	02/15/25	02/16/25	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: DT		Batch: 2508001
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:37:48PM

CS7

E502151-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: BA		Batch: 2507163
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		83.4 %	70-130	02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: BA		Batch: 2507163
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.5 %	70-130	02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: NV		Batch: 2507148
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
<i>Surrogate: n-Nonane</i>		104 %	61-141	02/15/25	02/16/25	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: DT		Batch: 2508001
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:37:48PM

CS8

E502151-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	83.7 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2507148	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
<i>Surrogate: n-Nonane</i>						
	104 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2508001	
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported: 2/17/2025 1:37:48PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CS9

E502151-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
Surrogate: 4-Bromochlorobenzene-PID	85.2 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.6 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2507148	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	105 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2508001	
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:37:48PM

CS10

E502151-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	86.1 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.2 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2507148	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
<i>Surrogate: n-Nonane</i>						
	99.8 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2508001	
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported: 2/17/2025 1:37:48PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CS11

E502151-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
Surrogate: 4-Bromochlorobenzene-PID	87.0 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.8 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2507148	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	103 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2508001	
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:37:48PM

CS12

E502151-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2507163
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.8 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2507163
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.7 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2507148
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
<i>Surrogate: n-Nonane</i>						
	102 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508001
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:37:48PM

CS13

E502151-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	89.5 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	89.7 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2507148	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
<i>Surrogate: n-Nonane</i>	102 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2508001	
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:37:48PM

CS14

E502151-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.3 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.6 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2507148	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
<i>Surrogate: n-Nonane</i>						
	105 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2508001	
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:37:48PM

CS15

E502151-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.4 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.1 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2507148	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
<i>Surrogate: n-Nonane</i>						
	101 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2508001	
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:37:48PM

CS16

E502151-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.2 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.6 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2507148	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
<i>Surrogate: n-Nonane</i>						
	101 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2508001	
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:37:48PM

CS17

E502151-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2507163
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2507163
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.2 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2507148
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
<i>Surrogate: n-Nonane</i>						
	99.2 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508001
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:37:48PM

CS18

E502151-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.8 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.5 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2507148	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
<i>Surrogate: n-Nonane</i>						
	100 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2508001	
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:37:48PM

CS19

E502151-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.7 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	82.6 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2507148	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
<i>Surrogate: n-Nonane</i>	101 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2508001	
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:37:48PM

CS20

E502151-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2507163	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.2 %	70-130	02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2507148	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
<i>Surrogate: n-Nonane</i>						
		100 %	61-141	02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2508001	
Chloride	ND	20.0	1	02/16/25	02/16/25	



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Boundary Raider 6 Fed 2H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/17/2025 1:37:48PM
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Volatile Organics by EPA 8021B

Analyst: BA

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 (2507163-BLK1)

Prepared: 02/15/25 Analyzed: 02/16/25

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	6.93		8.00		86.7	70-130			

LCS (2507163-BS1)

Prepared: 02/15/25 Analyzed: 02/17/25

Benzene	4.86	0.0250	5.00		97.1	70-130			
Ethylbenzene	4.86	0.0250	5.00		97.3	70-130			
Toluene	4.91	0.0250	5.00		98.3	70-130			
o-Xylene	4.86	0.0250	5.00		97.3	70-130			
p,m-Xylene	9.91	0.0500	10.0		99.1	70-130			
Total Xylenes	14.8	0.0250	15.0		98.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.19		8.00		102	70-130			

LCS Dup (2507163-BSD1)

Prepared: 02/15/25 Analyzed: 02/17/25

Benzene	4.65	0.0250	5.00		93.0	70-130	4.33	20	
Ethylbenzene	4.68	0.0250	5.00		93.6	70-130	3.81	20	
Toluene	4.72	0.0250	5.00		94.4	70-130	4.02	20	
o-Xylene	4.68	0.0250	5.00		93.7	70-130	3.74	20	
p,m-Xylene	9.53	0.0500	10.0		95.3	70-130	3.88	20	
Total Xylenes	14.2	0.0250	15.0		94.8	70-130	3.83	20	
Surrogate: 4-Bromochlorobenzene-PID	8.11		8.00		101	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported: 2/17/2025 1:37:48PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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 (2507163-BLK1)					Prepared: 02/15/25 Analyzed: 02/16/25				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.14		8.00		89.3	70-130			

LCS (2507163-BS2)					Prepared: 02/15/25 Analyzed: 02/16/25				
Gasoline Range Organics (C6-C10)	39.5	20.0	50.0		79.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.0	70-130			

LCS Dup (2507163-BSD2)					Prepared: 02/15/25 Analyzed: 02/17/25				
Gasoline Range Organics (C6-C10)	41.8	20.0	50.0		83.6	70-130	5.70	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.8	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/17/2025 1:37:48PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2507148-BLK1)					Prepared: 02/15/25 Analyzed: 02/16/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.4		50.0		105	61-141			

LCS (2507148-BS1)					Prepared: 02/15/25 Analyzed: 02/16/25				
Diesel Range Organics (C10-C28)	258	25.0	250		103	66-144			
Surrogate: n-Nonane	53.6		50.0		107	61-141			

LCS Dup (2507148-BSD1)					Prepared: 02/15/25 Analyzed: 02/16/25				
Diesel Range Organics (C10-C28)	249	25.0	250		99.4	66-144	3.84	20	
Surrogate: n-Nonane	51.4		50.0		103	61-141			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/17/2025 1:37:48PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2508001-BLK1)					Prepared: 02/16/25 Analyzed: 02/16/25				
Chloride	ND	20.0							
LCS (2508001-BS1)					Prepared: 02/16/25 Analyzed: 02/16/25				
Chloride	253	20.0	250		101	90-110			
LCS Dup (2508001-BSD1)					Prepared: 02/16/25 Analyzed: 02/16/25				
Chloride	253	20.0	250		101	90-110	0.226	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:	Boundary Raider 6 Fed 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	02/17/25 13:37

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



Chain of Custody

Page 1 of 5

E502151 CM 2.17.25

Client Information				Invoice Information		Lab Use Only		TAT		State								
Client: Pima Environmental Services, LLC				Company: Devon Energy		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: Boundary Raider 6 Fed. 2H				Address:		E502145	E058007	X				X						
Project Manager: Tom Bynum				City, State, Zip:														
Address: 5614 N Lovington Hwy				Phone:														
City, State, Zip: Hobbs, NM 88240				Email:														
Phone: (580)748-1613				Miscellaneous: Project No. # 118-2														
Email: Tom@pimaoil.com																		
Sample Information							Analysis and Method					EPA Program						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Carbon/Anion Pkg	SDWA	CWA	RCRA
8:00	2/13/2025	S		CS1		1						X						
8:12				CS2		2												
8:16				CS3		3												
8:19				CS4		4												
8:23				CS5		5												
8:26				CS6		6												
8:29				CS7		7												
8:33				CS8		8												
8:39				CS9		9												
8:40				CS10		10												
Additional Instructions: BILLING- 21163373																		
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: Andrew Franco																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	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 oC on subsequent days. Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp oC 4										
Andrew Franco		2/13/25	9:47	Karime Adame		2/14/25	8:06											
Karime Adame		2/14/25	2:16	Larrigotana Parla		2.14.25	1445											
Larrigotana Parla		2.14.25	1800	Andrew Jr.		2.14.25	1715											
Andrew Jr.		2.14.25	2315	Caitlin Mann		2.17.25	800											
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 14 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.																		

Chain of Custody

Page 2 of 5

E50251 CM 2.17.25

Client Information				Invoice Information		Lab Use Only		TAT		State																																
Client: Pima Environmental Services, LLC				Company: Devon Energy		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX																											
Project Name: Boundary Raider 6 Fed. 2H				Address:		E502145	21058-007	X				X																														
Project Manager: Tom Bynum				City, State, Zip:		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="8">Analysis and Method</th> <th colspan="3">EPA Program</th> </tr> <tr> <td rowspan="3">DRO/ORO by 8015</td> <td rowspan="3">GRO/DRO by 8015</td> <td rowspan="3">BTX by 8021</td> <td rowspan="3">VOC by 8260</td> <td rowspan="3">Chloride 300.0</td> <td rowspan="3">BGDOC - NM</td> <td rowspan="3">TCEQ 1005 - TX</td> <td rowspan="3">RCRA 8 Metals</td> <td rowspan="3">Cation/Anion Pkg</td> <td>SDWA</td> <td>CWA</td> <td>RCRA</td> </tr> <tr> <td>Compliance</td> <td>Y</td> <td>or</td> <td>N</td> </tr> <tr> <td>PWSID #</td> <td colspan="3"></td> </tr> </thead></table>						Analysis and Method								EPA Program			DRO/ORO by 8015	GRO/DRO by 8015	BTX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	SDWA	CWA	RCRA	Compliance	Y	or	N	PWSID #			
Analysis and Method												EPA Program																														
DRO/ORO by 8015	GRO/DRO by 8015	BTX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM							TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	SDWA	CWA	RCRA																									
						Compliance	Y	or	N																																	
						PWSID #																																				
Address: 5614 N Lovington Hwy				Phone:																																						
City, State, Zip: Hobbs, NM 88240				Email:																																						
Phone: (580)748-1613				Miscellaneous: Project No. # 118-2																																						
Email: Tom@pimaoil.com																																										

Sample Information																
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	Remarks
8:43	2/13/2025	S		CS11		11						X				
8:47	{	{		CS12		12										
8:48				CS13		13										
8:49				CS14		14										
8:50				CS15		15										
8:55				CS16		16										
8:59				CS17		17										
9:03				CS18		18										
9:09				CS19		19										
9:13				CS20		20										

Additional Instructions: BILLING- 21163373

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: Andrew Franco

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	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 oC on subsequent days. Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp oC _____
Andrew Franco	2/13/25	4:47	Karime Adame	2/14/25	8:06	
Karime Adame	2/14/25	2:16	Karime Adame	2/14/25	1445	
Karime Adame	2/14/25	1800	John H.	2/14/25	1715	
John H.	2/14/25	2315	Caitlynn	2/17/25	800	

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 14 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: 2/17/2025 1:35:33PM

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:	02/17/25 08:00	Work Order ID:	E502151
Phone:	(575) 631-6977	Date Logged In:	02/14/25 17:16	Logged In By:	Noe Soto
Email:	tom@pimaoil.com	Due Date:	02/17/25 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Project Boundary Raider 6 Fed 2H has been separated into multiple WOs due to high sample volume, WOs are E502151-E502152. No. of containers not provided on 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: Boundary Raider 6 Fed 2H

Work Order: E502152

Job Number: 01058-0007

Received: 2/17/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/17/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 2/17/25

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Boundary Raider 6 Fed 2H
Workorder: E502152
Date Received: 2/17/2025 8:00:33AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/17/2025 8:00:33AM, under the Project Name: Boundary Raider 6 Fed 2H.

The analytical test results summarized in this report with the Project Name: Boundary Raider 6 Fed 2H 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:	Boundary Raider 6 Fed 2H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	02/17/25 13:40

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CSW1-SURFACE	E502152-01A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW1-1'	E502152-02A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW1-2'	E502152-03A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW1-3'	E502152-04A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW1-4'	E502152-05A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW2-SURFACE	E502152-06A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW2-1'	E502152-07A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW2-2'	E502152-08A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW2-3'	E502152-09A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW2-4'	E502152-10A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW3-SURFACE	E502152-11A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW3-1'	E502152-12A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW3-2'	E502152-13A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW3-3'	E502152-14A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW3-4'	E502152-15A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW4-SURFACE	E502152-16A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW4-1'	E502152-17A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW4-2'	E502152-18A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW4-3'	E502152-19A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW4-4'	E502152-20A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW5-SURFACE	E502152-21A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW5-1'	E502152-22A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW5-2'	E502152-23A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW5-3'	E502152-24A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW5-4'	E502152-25A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW6-SURFACE	E502152-26A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW6-1'	E502152-27A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW6-2'	E502152-28A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW6-3'	E502152-29A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
CSW6-4'	E502152-30A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW1-SURFACE

E502152-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Benzene	ND	0.0250	1	02/15/25	02/15/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/15/25	
Toluene	ND	0.0250	1	02/15/25	02/15/25	
o-Xylene	ND	0.0250	1	02/15/25	02/15/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/15/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/15/25	
<i>Surrogate: Bromofluorobenzene</i>		94.8 %	70-130	02/15/25	02/15/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.3 %	70-130	02/15/25	02/15/25	
<i>Surrogate: Toluene-d8</i>		97.7 %	70-130	02/15/25	02/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/15/25	
<i>Surrogate: Bromofluorobenzene</i>		94.8 %	70-130	02/15/25	02/15/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.3 %	70-130	02/15/25	02/15/25	
<i>Surrogate: Toluene-d8</i>		97.7 %	70-130	02/15/25	02/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2507149
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
<i>Surrogate: n-Nonane</i>		121 %	61-141	02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508002
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW1-1'

E502152-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Benzene	ND	0.0250	1	02/15/25	02/15/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/15/25	
Toluene	ND	0.0250	1	02/15/25	02/15/25	
o-Xylene	ND	0.0250	1	02/15/25	02/15/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/15/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/15/25	
Surrogate: Bromofluorobenzene	97.9 %	70-130		02/15/25	02/15/25	
Surrogate: 1,2-Dichloroethane-d4	93.6 %	70-130		02/15/25	02/15/25	
Surrogate: Toluene-d8	99.8 %	70-130		02/15/25	02/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/15/25	
Surrogate: Bromofluorobenzene	97.9 %	70-130		02/15/25	02/15/25	
Surrogate: 1,2-Dichloroethane-d4	93.6 %	70-130		02/15/25	02/15/25	
Surrogate: Toluene-d8	99.8 %	70-130		02/15/25	02/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2507149
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	123 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508002
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW1-2'

E502152-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	97.6 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	97.6 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	101 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	97.6 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	97.6 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	101 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2507149
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	124 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508002
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW1-3'

E502152-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	97.6 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	92.4 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	98.5 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	97.6 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	92.4 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	98.5 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2507149
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	123 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508002
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW1-4'

E502152-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	96.5 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	93.6 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	99.2 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	96.5 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	93.6 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	99.2 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2507149
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	119 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508002
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW2-SURFACE

E502152-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	97.1 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	93.3 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	101 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	97.1 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	93.3 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	101 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2507149
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	135 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508002
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW2-1'

E502152-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	96.1 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	98.0 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	96.1 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	98.0 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2507149
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	122 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508002
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW2-2'

E502152-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	96.4 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	94.2 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	99.8 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	96.4 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	94.2 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	99.8 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2507149
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	128 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508002
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW2-3'

E502152-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	94.5 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	91.6 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	96.9 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	94.5 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	91.6 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	96.9 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2507149
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	121 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508002
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW2-4'

E502152-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	96.0 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	93.0 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	99.2 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	96.0 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	93.0 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	99.2 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2507149
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	122 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508002
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW3-SURFACE

E502152-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	96.3 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	92.3 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	98.0 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	96.3 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	92.3 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	98.0 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2507149
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	130 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508002
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW3-1'

E502152-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	97.0 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	98.3 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	97.0 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	98.3 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2507149
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	125 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508002
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW3-2'

E502152-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	97.2 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	94.3 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	99.3 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	97.2 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	94.3 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	99.3 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2508009
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	113 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508002
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW3-3'

E502152-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	96.3 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	91.2 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	98.8 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	96.3 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	91.2 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	98.8 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2507149
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	127 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508002
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW3-4'

E502152-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	93.9 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	97.7 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	93.9 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	97.7 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2507149
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	131 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508002
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW4-SURFACE

E502152-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	96.7 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	91.4 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	98.3 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	96.7 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	91.4 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	98.3 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2507149
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	122 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508002
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW4-1'

E502152-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	96.7 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	93.5 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	98.5 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	96.7 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	93.5 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	98.5 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2507149
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	121 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508002
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW4-2'

E502152-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	97.0 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	99.9 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	97.0 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	99.9 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2507149
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	123 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508002
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW4-3'

E502152-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	95.9 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	92.5 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	98.2 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	95.9 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	92.5 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	98.2 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2507149
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	123 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508002
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW4-4'

E502152-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Benzene	ND	0.0250	1	02/15/25	02/16/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/16/25	
Toluene	ND	0.0250	1	02/15/25	02/16/25	
o-Xylene	ND	0.0250	1	02/15/25	02/16/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/16/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	96.7 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	90.3 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	98.7 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507164
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/16/25	
Surrogate: Bromofluorobenzene	96.7 %	70-130		02/15/25	02/16/25	
Surrogate: 1,2-Dichloroethane-d4	90.3 %	70-130		02/15/25	02/16/25	
Surrogate: Toluene-d8	98.7 %	70-130		02/15/25	02/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2507149
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	124 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508002
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW5-SURFACE

E502152-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507165
Benzene	ND	0.0250	1	02/15/25	02/15/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/15/25	
Toluene	ND	0.0250	1	02/15/25	02/15/25	
o-Xylene	ND	0.0250	1	02/15/25	02/15/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/15/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/15/25	
Surrogate: Bromofluorobenzene	96.0 %	70-130		02/15/25	02/15/25	
Surrogate: 1,2-Dichloroethane-d4	95.1 %	70-130		02/15/25	02/15/25	
Surrogate: Toluene-d8	98.4 %	70-130		02/15/25	02/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507165
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/15/25	
Surrogate: Bromofluorobenzene	96.0 %	70-130		02/15/25	02/15/25	
Surrogate: 1,2-Dichloroethane-d4	95.1 %	70-130		02/15/25	02/15/25	
Surrogate: Toluene-d8	98.4 %	70-130		02/15/25	02/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2507150
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/15/25	
Surrogate: n-Nonane	115 %	61-141		02/15/25	02/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508003
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW5-1'

E502152-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507165
Benzene	ND	0.0250	1	02/15/25	02/15/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/15/25	
Toluene	ND	0.0250	1	02/15/25	02/15/25	
o-Xylene	ND	0.0250	1	02/15/25	02/15/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/15/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/15/25	
Surrogate: Bromofluorobenzene	94.1 %	70-130		02/15/25	02/15/25	
Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130		02/15/25	02/15/25	
Surrogate: Toluene-d8	101 %	70-130		02/15/25	02/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507165
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/15/25	
Surrogate: Bromofluorobenzene	94.1 %	70-130		02/15/25	02/15/25	
Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130		02/15/25	02/15/25	
Surrogate: Toluene-d8	101 %	70-130		02/15/25	02/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2507150
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	118 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508003
Chloride	ND	20.0	1	02/16/25	02/16/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW5-2'

E502152-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507165
Benzene	ND	0.0250	1	02/15/25	02/15/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/15/25	
Toluene	ND	0.0250	1	02/15/25	02/15/25	
o-Xylene	ND	0.0250	1	02/15/25	02/15/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/15/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/15/25	
Surrogate: Bromofluorobenzene	96.3 %	70-130		02/15/25	02/15/25	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		02/15/25	02/15/25	
Surrogate: Toluene-d8	100 %	70-130		02/15/25	02/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507165
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/15/25	
Surrogate: Bromofluorobenzene	96.3 %	70-130		02/15/25	02/15/25	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		02/15/25	02/15/25	
Surrogate: Toluene-d8	100 %	70-130		02/15/25	02/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2507150
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	118 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508003
Chloride	ND	20.0	1	02/16/25	02/17/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW5-3'

E502152-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507165
Benzene	ND	0.0250	1	02/15/25	02/15/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/15/25	
Toluene	ND	0.0250	1	02/15/25	02/15/25	
o-Xylene	ND	0.0250	1	02/15/25	02/15/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/15/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/15/25	
Surrogate: Bromofluorobenzene	93.5 %	70-130		02/15/25	02/15/25	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		02/15/25	02/15/25	
Surrogate: Toluene-d8	96.1 %	70-130		02/15/25	02/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507165
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/15/25	
Surrogate: Bromofluorobenzene	93.5 %	70-130		02/15/25	02/15/25	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		02/15/25	02/15/25	
Surrogate: Toluene-d8	96.1 %	70-130		02/15/25	02/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2507150
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	117 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508003
Chloride	ND	20.0	1	02/16/25	02/17/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW5-4'

E502152-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507165
Benzene	ND	0.0250	1	02/15/25	02/15/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/15/25	
Toluene	ND	0.0250	1	02/15/25	02/15/25	
o-Xylene	ND	0.0250	1	02/15/25	02/15/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/15/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/15/25	
Surrogate: Bromofluorobenzene	96.5 %	70-130		02/15/25	02/15/25	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		02/15/25	02/15/25	
Surrogate: Toluene-d8	99.1 %	70-130		02/15/25	02/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507165
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/15/25	
Surrogate: Bromofluorobenzene	96.5 %	70-130		02/15/25	02/15/25	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		02/15/25	02/15/25	
Surrogate: Toluene-d8	99.1 %	70-130		02/15/25	02/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2507150
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	115 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508003
Chloride	ND	20.0	1	02/16/25	02/17/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW6-SURFACE

E502152-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507165
Benzene	ND	0.0250	1	02/15/25	02/15/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/15/25	
Toluene	ND	0.0250	1	02/15/25	02/15/25	
o-Xylene	ND	0.0250	1	02/15/25	02/15/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/15/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/15/25	
Surrogate: Bromofluorobenzene	94.6 %	70-130		02/15/25	02/15/25	
Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130		02/15/25	02/15/25	
Surrogate: Toluene-d8	96.4 %	70-130		02/15/25	02/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507165
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/15/25	
Surrogate: Bromofluorobenzene	94.6 %	70-130		02/15/25	02/15/25	
Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130		02/15/25	02/15/25	
Surrogate: Toluene-d8	96.4 %	70-130		02/15/25	02/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2507150
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	115 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508003
Chloride	ND	20.0	1	02/16/25	02/17/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW6-1'

E502152-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507165
Benzene	ND	0.0250	1	02/15/25	02/15/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/15/25	
Toluene	ND	0.0250	1	02/15/25	02/15/25	
o-Xylene	ND	0.0250	1	02/15/25	02/15/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/15/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/15/25	
Surrogate: Bromofluorobenzene	97.2 %	70-130		02/15/25	02/15/25	
Surrogate: 1,2-Dichloroethane-d4	95.8 %	70-130		02/15/25	02/15/25	
Surrogate: Toluene-d8	98.8 %	70-130		02/15/25	02/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507165
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/15/25	
Surrogate: Bromofluorobenzene	97.2 %	70-130		02/15/25	02/15/25	
Surrogate: 1,2-Dichloroethane-d4	95.8 %	70-130		02/15/25	02/15/25	
Surrogate: Toluene-d8	98.8 %	70-130		02/15/25	02/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2507150
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	116 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508003
Chloride	ND	20.0	1	02/16/25	02/17/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW6-2'

E502152-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507165
Benzene	ND	0.0250	1	02/15/25	02/15/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/15/25	
Toluene	ND	0.0250	1	02/15/25	02/15/25	
o-Xylene	ND	0.0250	1	02/15/25	02/15/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/15/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/15/25	
Surrogate: Bromofluorobenzene	95.3 %	70-130		02/15/25	02/15/25	
Surrogate: 1,2-Dichloroethane-d4	94.0 %	70-130		02/15/25	02/15/25	
Surrogate: Toluene-d8	99.1 %	70-130		02/15/25	02/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507165
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/15/25	
Surrogate: Bromofluorobenzene	95.3 %	70-130		02/15/25	02/15/25	
Surrogate: 1,2-Dichloroethane-d4	94.0 %	70-130		02/15/25	02/15/25	
Surrogate: Toluene-d8	99.1 %	70-130		02/15/25	02/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2507150
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	116 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508003
Chloride	ND	20.0	1	02/16/25	02/17/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW6-3'

E502152-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507165
Benzene	ND	0.0250	1	02/15/25	02/15/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/15/25	
Toluene	ND	0.0250	1	02/15/25	02/15/25	
o-Xylene	ND	0.0250	1	02/15/25	02/15/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/15/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/15/25	
Surrogate: Bromofluorobenzene	93.9 %	70-130		02/15/25	02/15/25	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		02/15/25	02/15/25	
Surrogate: Toluene-d8	97.6 %	70-130		02/15/25	02/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507165
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/15/25	
Surrogate: Bromofluorobenzene	93.9 %	70-130		02/15/25	02/15/25	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		02/15/25	02/15/25	
Surrogate: Toluene-d8	97.6 %	70-130		02/15/25	02/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2507150
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	113 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508003
Chloride	ND	20.0	1	02/16/25	02/17/25	



Sample Data

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

Project Name: Boundary Raider 6 Fed 2H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/17/2025 1:40:34PM

CSW6-4'

E502152-30

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507165
Benzene	ND	0.0250	1	02/15/25	02/15/25	
Ethylbenzene	ND	0.0250	1	02/15/25	02/15/25	
Toluene	ND	0.0250	1	02/15/25	02/15/25	
o-Xylene	ND	0.0250	1	02/15/25	02/15/25	
p,m-Xylene	ND	0.0500	1	02/15/25	02/15/25	
Total Xylenes	ND	0.0250	1	02/15/25	02/15/25	
Surrogate: Bromofluorobenzene	97.5 %	70-130		02/15/25	02/15/25	
Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130		02/15/25	02/15/25	
Surrogate: Toluene-d8	98.9 %	70-130		02/15/25	02/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2507165
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/25	02/15/25	
Surrogate: Bromofluorobenzene	97.5 %	70-130		02/15/25	02/15/25	
Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130		02/15/25	02/15/25	
Surrogate: Toluene-d8	98.9 %	70-130		02/15/25	02/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2507150
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/25	02/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/25	02/16/25	
Surrogate: n-Nonane	124 %	61-141		02/15/25	02/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2508003
Chloride	ND	20.0	1	02/16/25	02/17/25	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported: 2/17/2025 1:40:34PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

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 (2507164-BLK1)

Prepared: 02/15/25 Analyzed: 02/15/25

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	0.473		0.500		94.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2507164-BS1)

Prepared: 02/15/25 Analyzed: 02/15/25

Benzene	2.49	0.0250	2.50		99.5	70-130			
Ethylbenzene	2.47	0.0250	2.50		98.7	70-130			
Toluene	2.42	0.0250	2.50		96.6	70-130			
o-Xylene	2.43	0.0250	2.50		97.1	70-130			
p,m-Xylene	4.85	0.0500	5.00		96.9	70-130			
Total Xylenes	7.27	0.0250	7.50		97.0	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.6	70-130			

LCS Dup (2507164-BSD1)

Prepared: 02/15/25 Analyzed: 02/15/25

Benzene	2.48	0.0250	2.50		99.0	70-130	0.463	23	
Ethylbenzene	2.48	0.0250	2.50		99.3	70-130	0.687	27	
Toluene	2.43	0.0250	2.50		97.3	70-130	0.701	24	
o-Xylene	2.41	0.0250	2.50		96.5	70-130	0.620	27	
p,m-Xylene	4.83	0.0500	5.00		96.6	70-130	0.279	27	
Total Xylenes	7.24	0.0250	7.50		96.6	70-130	0.393	27	
Surrogate: Bromofluorobenzene	0.485		0.500		97.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.1	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported: 2/17/2025 1:40:34PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

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 (2507165-BLK1)

Prepared: 02/15/25 Analyzed: 02/15/25

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	0.484		0.500		96.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.490		0.500		97.9	70-130			

LCS (2507165-BS1)

Prepared: 02/15/25 Analyzed: 02/15/25

Benzene	2.25	0.0250	2.50		90.1	70-130			
Ethylbenzene	2.32	0.0250	2.50		93.0	70-130			
Toluene	2.26	0.0250	2.50		90.2	70-130			
o-Xylene	2.26	0.0250	2.50		90.4	70-130			
p,m-Xylene	4.58	0.0500	5.00		91.6	70-130			
Total Xylenes	6.84	0.0250	7.50		91.2	70-130			
Surrogate: Bromofluorobenzene	0.494		0.500		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			

LCS Dup (2507165-BSD1)

Prepared: 02/15/25 Analyzed: 02/15/25

Benzene	2.53	0.0250	2.50		101	70-130	11.7	23	
Ethylbenzene	2.58	0.0250	2.50		103	70-130	10.5	27	
Toluene	2.51	0.0250	2.50		100	70-130	10.6	24	
o-Xylene	2.49	0.0250	2.50		99.6	70-130	9.64	27	
p,m-Xylene	5.01	0.0500	5.00		100	70-130	9.04	27	
Total Xylenes	7.50	0.0250	7.50		100	70-130	9.24	27	
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.6	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.8	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported: 2/17/2025 1:40:34PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

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 (2507164-BLK1) Prepared: 02/15/25 Analyzed: 02/15/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.473		0.500		94.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2507164-BS2) Prepared: 02/15/25 Analyzed: 02/15/25

Gasoline Range Organics (C6-C10)	53.8	20.0	50.0		108	70-130			
Surrogate: Bromofluorobenzene	0.493		0.500		98.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

LCS Dup (2507164-BSD2) Prepared: 02/15/25 Analyzed: 02/15/25

Gasoline Range Organics (C6-C10)	53.2	20.0	50.0		106	70-130	1.20	20	
Surrogate: Bromofluorobenzene	0.498		0.500		99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.5	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported: 2/17/2025 1:40:34PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

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 (2507165-BLK1) Prepared: 02/15/25 Analyzed: 02/15/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.484		0.500		96.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.490		0.500		97.9	70-130			

LCS (2507165-BS2) Prepared: 02/15/25 Analyzed: 02/15/25

Gasoline Range Organics (C6-C10)	57.4	20.0	50.0		115	70-130			
Surrogate: Bromofluorobenzene	0.483		0.500		96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			

LCS Dup (2507165-BSD2) Prepared: 02/15/25 Analyzed: 02/15/25

Gasoline Range Organics (C6-C10)	55.4	20.0	50.0		111	70-130	3.57	20	
Surrogate: Bromofluorobenzene	0.482		0.500		96.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.4	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/17/2025 1:40:34PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

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 (2507149-BLK1)					Prepared: 02/15/25 Analyzed: 02/15/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.4		50.0		117	61-141			

LCS (2507149-BS1)					Prepared: 02/15/25 Analyzed: 02/15/25				
Diesel Range Organics (C10-C28)	289	25.0	250		116	66-144			
Surrogate: n-Nonane	61.3		50.0		123	61-141			

LCS Dup (2507149-BSD1)					Prepared: 02/15/25 Analyzed: 02/15/25				
Diesel Range Organics (C10-C28)	291	25.0	250		116	66-144	0.390	20	
Surrogate: n-Nonane	61.3		50.0		123	61-141			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/17/2025 1:40:34PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

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 (2507150-BLK1)					Prepared: 02/15/25 Analyzed: 02/15/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.9		50.0		112	61-141			

LCS (2507150-BS1)					Prepared: 02/15/25 Analyzed: 02/15/25				
Diesel Range Organics (C10-C28)	262	25.0	250		105	66-144			
Surrogate: n-Nonane	57.4		50.0		115	61-141			

LCS Dup (2507150-BSD1)					Prepared: 02/15/25 Analyzed: 02/15/25				
Diesel Range Organics (C10-C28)	268	25.0	250		107	66-144	2.03	20	
Surrogate: n-Nonane	58.6		50.0		117	61-141			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/17/2025 1:40:34PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

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 (2508009-BLK1)					Prepared: 02/16/25 Analyzed: 02/16/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.4		50.0		113	61-141			

LCS (2508009-BS1)					Prepared: 02/16/25 Analyzed: 02/16/25				
Diesel Range Organics (C10-C28)	263	25.0	250		105	66-144			
Surrogate: n-Nonane	55.5		50.0		111	61-141			

LCS Dup (2508009-BSD1)					Prepared: 02/16/25 Analyzed: 02/16/25				
Diesel Range Organics (C10-C28)	268	25.0	250		107	66-144	1.88	20	
Surrogate: n-Nonane	56.5		50.0		113	61-141			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/17/2025 1:40:34PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2508002-BLK1)					Prepared: 02/16/25 Analyzed: 02/16/25				
Chloride	ND	20.0							
LCS (2508002-BS1)					Prepared: 02/16/25 Analyzed: 02/16/25				
Chloride	257	20.0	250		103	90-110			
LCS Dup (2508002-BSD1)					Prepared: 02/16/25 Analyzed: 02/16/25				
Chloride	256	20.0	250		102	90-110	0.205	20	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Boundary Raider 6 Fed 2H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/17/2025 1:40:34PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2508003-BLK1)					Prepared: 02/16/25 Analyzed: 02/16/25				
Chloride	ND	20.0							
LCS (2508003-BS1)					Prepared: 02/16/25 Analyzed: 02/16/25				
Chloride	256	20.0	250		102	90-110			
LCS Dup (2508003-BSD1)					Prepared: 02/16/25 Analyzed: 02/16/25				
Chloride	256	20.0	250		102	90-110	0.0492	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:	Boundary Raider 6 Fed 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	02/17/25 13:40

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

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

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

Chain of Custody

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E502152 CM 2/17/25

Client Information				Invoice Information		Lab Use Only		TAT		State								
Client: Pima Environmental Services, LLC				Company: Devon Energy		Lab WO#		Job Number		1D	2D	3D	Std					
Project Name: Boundary Raider 6 Fed. 2H				Address:		E502152		10581007		X								
Project Manager: Tom Bynum				City, State, Zip:														
Address: 5614 N Lovington Hwy				Phone:														
City, State, Zip: Hobbs, NM 88240				Email:														
Phone: (580)748-1613				Miscellaneous: Project No. # 118-2														
Email: Tom@pimaoil.com																		
Sample Information						Analysis and Method								EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	SGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	SDWA	CWA	RCRA
9:16	2/13/2025	S		CSW1-SURFACE		1												
9:20				CSW1-1'		2												
9:23				CSW1-2'		3												
9:25				CSW1-3'		4												
9:29				CSW1-4'		5												
9:33				CSW2-SURFACE		6												
9:36				CSW2-1'		7												
9:39				CSW2-2'		8												
9:43				CSW2-3'		9												
9:47				CSW2-4'		10												
Additional Instructions: BILLING- 21163373																		
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: Andrew Franco																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	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 oC on subsequent days.										
Andrew Franco		2/13/25	4:47	Karime Adame		2/14/25	8:06											
Karime Adame		2/14/25	2:16	Karime Adame		2/14/25	14:45											
Ann Parker		2/14/25	1800	John M.		2/14/25	1715											
John M.		2/14/25	2315	Caitlynn		2/17/25	800											
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 14 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.																		

Chain of Custody

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E502152 CM 2/17/25

Client Information				Invoice Information				Lab Use Only				TAT				State					
Client: Pima Environmental Services, LLC				Company: Devon Energy				Lab WO# E5021412				Job Number 00580007				1D 2D 3D Std					
Project Name: Boundary Raider 6 Fed. 2H				Address:								X				NM CO UT TX					
Project Manager: Tom Bynum				City, State, Zip:												X					
Address: 5614 N Lovington Hwy				Phone:																	
City, State, Zip: Hobbs, NM 88240				Email:																	
Phone: (580)748-1613				Miscellaneous: Project No. # 118-2																	
Email: Tom@pimaoil.com																					
Sample Information										Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TEEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	SDWA	CWA	RCRA			
9:16	2/13/2025	S		CSW3-SURFACE		11						X									
9:20				CSW3-1'		12															
9:23				CSW3-2'		13															
9:25				CSW3-3'		14															
9:29				CSW3-4'		15															
9:33				CSW4-SURFACE		16															
9:36				CSW4-1'		17															
9:39				CSW4-2'		18															
9:43				CSW4-3'		19															
9:47				CSW4-4'		20															
Additional Instructions: BILLING- 21163373																					
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: Andrew Franco																					
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		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 oC on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp oC <u>4</u>									
Andrew Franco		2/13/25		4:47		Karime Adame		2/14/25		8:06											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time											
Karime Adame		2/14/25		2:16		Karime Adame		2/14/25		14:45											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time											
Karime Adame		2/14/25		1800		Karime Adame		2/14/25		1715											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time											
Andrew M.		2.14.25		2315		Andrew M.		2.14.25		800											
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 14 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.																					

Chain of Custody

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E00252 CM 2/17/25

Client Information				Invoice Information		Lab Use Only		TAT				State							
Client: Pima Environmental Services, LLC				Company: Devon Energy		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX				
Project Name: Boundary Raider 6 Fed. 2H				Address:		E00252	01058-0007	X				X							
Project Manager: Tom Bynum				City, State, Zip:															
Address: 5614 N Lovington Hwy				Phone:															
City, State, Zip: Hobbs, NM 88240				Email:															
Phone: (580)748-1613				Miscellaneous: Project No. # 118-2															
Email: Tom@pimaoil.com																			
Sample Information						Analysis and Method								EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	SDWA	CWA	RCRA	
9:16	2/13/2025	S		CSW5-SURFACE		21						X							
9:20				CSW5-1'		22													
9:23				CSW5-2'		23													
9:25				CSW5-3'		24													
9:29				CSW5-4'		25													
9:33				CSW6-SURFACE		26													
9:36				CSW6-1'		27													
9:39				CSW6-2'		28													
9:43				CSW6-3'		29													
9:47				CSW6-4'		30 to													
Additional Instructions: BILLING- 21163373																			
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: Andrew Franco																			
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		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 oC on subsequent days. Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp oC <u>4</u>							
Andrew Franco		2/13/25		4:47		Carine Adame		2/14/25		8:06									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Carine Adame		2/14/25		2:16		Carine Adame		2/14/25		14:45									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Container Type: <u>g</u> - glass, <u>p</u> - poly/plastic, <u>ag</u> - amber glass, <u>v</u> - VOA							
Carine Adame		2/14/25		18:00		Carine Adame		2/14/25		17:15									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Note: Samples are discarded 14 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.							
Carine Adame		2/14/25		23:15		Carine Adame		2/17/25		8:00									

Envirotech Analytical Laboratory

Printed: 2/17/2025 1:33:47PM

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:	02/17/25 08:00	Work Order ID:	E502152
Phone:	(575) 631-6977	Date Logged In:	02/14/25 17:20	Logged In By:	Noe Soto
Email:	tom@pimaoil.com	Due Date:	02/17/25 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Project Boundary Raider 6 Fed 2H has been separated into multiple WOs due to high sample volume, WOs are E502151-E502152. No. of containers not provided on 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.

Safety Data Sheet

PHASETREAT 6219



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

Boundary Raider 6 Fed #2H | NAPP2312327064

DEVON ENERGY PRODUCTION, LP.

SAFETY DATA SHEET



PHASETREAT 6219

Page 1

Substance key: 000000238541

Revision Date: 06/24/2022

Version : 2 - 7 / USA

Date of printing :02/21/2025

SECTION 1. IDENTIFICATION

Identification of the company:

Clariant Corporation
500 East Morehead Street
Charlotte, NC, 28202
Telephone No.: +1 704-331-7000

Information of the substance/preparation:

BU Care Chemicals
Product Stewardship +1-704-331-7710
e-mail: SDS.NORAM@clariant.com

Emergency tel. number: +1 800-424-9300(CHEMTREC)**Trade name:** PHASETREAT 6219**Material number:** 214722**Chemical family:** Mixture**Primary product use:** Additive

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids : Category 2

Acute toxicity (Oral) : Category 3

Acute toxicity (Inhalation) : Category 4

Acute toxicity (Dermal) : Category 3

Skin corrosion : Category 1B

Serious eye damage : Category 1

Carcinogenicity : Category 2

Specific target organ toxicity : Category 1 (Eyes, Central nervous system)
- single exposure**GHS label elements**

Hazard pictograms :



Signal word : Danger

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Hazard statements : H225 Highly flammable liquid and vapour.
H301 + H311 Toxic if swallowed or in contact with skin.
H314 Causes severe skin burns and eye damage.
H332 Harmful if inhaled.
H351 Suspected of causing cancer.
H370 Causes damage to organs (Eyes, Central nervous system).

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician.
P362 Take off contaminated clothing and wash before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

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disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Methanol	67-56-1	30 - 50
Phosphoric acid	7664-38-2	20 - 30
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	85536-14-7	10 - 20
Solvent naphtha	64742-94-5	1 - 5
Hydrocarbons, C10, aromatics, >1% naphthalene	64742-94-5	0.1 - 1
Naphthalene	91-20-3	0.1 - 1

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

- If inhaled : Move the victim to fresh air.
Give oxygen or artificial respiration if needed.
Get immediate medical advice/ attention.
Never give anything by mouth to an unconscious person.
- In case of skin contact : In case of contact, immediately wash with soap and water for at least 15 minutes. Remove contaminated clothing and shoes while washing. Isolate contaminated clothing for cleaning or disposal. Do not reuse unless thoroughly cleaned. Dispose of contaminated leatherwear. Get immediate medical attention.
- In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- If swallowed : Get medical attention immediately.
Do NOT induce vomiting.
- Most important symptoms and effects, both acute and delayed : The possible symptoms known are those derived from the labelling (see section 2).
No additional symptoms are known.
- Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

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- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Cool containers/tanks with water spray.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Emits toxic and corrosive fumes under fire conditions.
Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure.
- Further information : Wear positive pressure self-contained breathing apparatus and full protective gear. Do not direct a solid stream of water or foam into hot burning pools; this may spread fire, cause frothing, and increase fire intensity. Containers can build up pressure if exposed to heat and/or fire. Vapors may form an explosive mixture with air. Vapors may travel to source of ignition and flash back. Use water spray to keep containers cool.
- Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Remove all spark producing devices or ignition sources. Wear proper personnel protective equipment. Using non-sparking tools collect as a liquid for recycling/disposal or absorb onto a suitable absorbant and secure in a suitable container. Collect any contaminated soils or cleaning waste in a suitable container for proper disposal.
Absorbent materials such as dry sand, absorbent booms, and vermiculite may be used to keep material from entering drains, sewers, or streams.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Keep away from heat, sparks and open flames. - Avoid breathing vapors or contact with skin, eyes, and clothing.- Use only with adequate ventilation and proper protective eyewear, face shield, gloves and clothing. Wash thoroughly after handling. Keep container closed.
Prevent a possible fire hazard by bonding and grounding or inert gas purge.
Store in a cool, dry, well-ventilated, fire-resistant location.
Avoid storage on wood floors.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Methanol	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m3	NIOSH REL
		ST	250 ppm 325 mg/m3	NIOSH REL
		TWA	200 ppm 260 mg/m3	OSHA Z-1
		STEL	250 ppm 325 mg/m3	OSHA P0
		TWA	200 ppm 260 mg/m3	OSHA P0
Phosphoric acid	7664-38-2	TWA	1 mg/m3	ACGIH
		STEL	3 mg/m3	ACGIH
		TWA	1 mg/m3	NIOSH REL
		ST	3 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z-1
		TWA	1 mg/m3	OSHA P0
		STEL	3 mg/m3	OSHA P0
Naphthalene	91-20-3	TWA	10 ppm	ACGIH
		TWA	10 ppm 50 mg/m3	NIOSH REL
		ST	15 ppm 75 mg/m3	NIOSH REL
		TWA	10 ppm 50 mg/m3	OSHA Z-1
		TWA	10 ppm 50 mg/m3	OSHA P0
		STEL	15 ppm 75 mg/m3	OSHA P0

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Methanol	67-56-1	Methanol	Urine	End of shift (As soon as possible after exposure ceases)	15 mg/l	ACGIH BEI

Engineering measures : Local ventilation recommended - mechanical ventilation may be used.

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Personal protective equipment

- Respiratory protection : If airborne concentrations pose a health hazard, become irritating, or exceed recommended limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements under 29CFR1910.134.
- Hand protection
Remarks : Chemical resistant gloves (butyl rubber, nitrile rubber, polyvinyl alcohol). However, please note that PVA degrades in water.
- Eye protection : Tightly fitting safety goggles
Face-shield
- Skin and body protection : Wear suitable protective equipment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Liquid
- Colour : yellow, to, brown
- Odour : mild
- Odour Threshold : not determined
- pH : 2.3
Concentration: 1 %
aqueous emulsion
- Freezing point : not determined
- Boiling point : 316 °F / 158 °C
- Flash point : 68 °F / 20 °C
Method: Pensky-Martens closed cup
- Evaporation rate : not determined
- Flammability (solid, gas) : Not applicable
- Self-ignition : not tested.
- Upper explosion limit / upper
flammability limit : 12.1 %(V)
Data relate to solvent

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Lower explosion limit / Lower flammability limit	:	2.5 %(V) Data relate to solvent
Vapour pressure	:	not determined
Relative vapour density	:	not determined
Density	:	1.05 - 1.09 g/cm3 (68 °F / 20 °C)
Bulk density	:	8.76 - 9.1 lb/gal
Solubility(ies) Water solubility	:	slightly soluble
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	not tested.
Decomposition temperature	:	no data available
Viscosity Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	not determined

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use. Stable
Conditions to avoid	:	Keep away from heat. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible materials	:	not known
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Eye contact
Skin contact
Ingestion
Inhalation

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Acute toxicity**Product:**

Acute oral toxicity : Acute toxicity estimate: 286.57 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 1.38 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 848.88 mg/kg
Method: Calculation method

Components:**Methanol:**

Acute oral toxicity : LD50 (Rat, male and female): 1,187 - 2,769 mg/kg
Method: Other
GLP: no
Assessment: The component/mixture is toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat, male and female): 87.5 mg/l
Exposure time: 6 h
Test atmosphere: vapour
Method: Other
GLP: no
Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity : Assessment: The component/mixture is toxic after single contact with skin.

Phosphoric acid:

Acute oral toxicity : LD50 (Rat, female): approx. 2,600 mg/kg
Method: OECD Test Guideline 423
GLP: no

Acute inhalation toxicity : Remarks: Study not performed as the substance is corrosive.

Acute dermal toxicity : Remarks: Study not performed as the substance is corrosive.

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:

Acute oral toxicity : LD50 (Rat, male and female): approx. 1,470 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402

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GLP: yes

Assessment: The substance or mixture has no acute dermal toxicity

Remarks: By analogy with a product of similar composition

Solvent naphtha:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 420
GLP: yes
Remarks: By analogy with a product of similar composition

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.28 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
GLP: yes
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: By analogy with a product of similar composition

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: By analogy with a product of similar composition

Naphthalene:

Acute oral toxicity : LD50 (Rat, male and female): 533 - 710 mg/kg
Method: OECD Test Guideline 401
GLP: No information available.

LD50 (Rat): 1,250 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 0.4 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 16,000 mg/kg
Method: OECD Test Guideline 402
GLP: no

Skin corrosion/irritation**Components:****Methanol:**

Species: Rabbit

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Exposure time: <= 20 h
Method: Other
Result: No skin irritation
GLP: no

Phosphoric acid:

Species: Rabbit
Exposure time: 24 h
Method: Other
Result: Causes burns.
GLP: no data available

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:

Species: Rabbit
Exposure time: 4 h
Method: OECD Test Guideline 404
Result: Corrosive
GLP: No information available.

Solvent naphtha:

Species: Rabbit
Exposure time: 4 h
Method: OECD Test Guideline 404
Result: Irritating to skin.
GLP: yes
Remarks: By analogy with a product of similar composition

Result: Repeated exposure may cause skin dryness or cracking.

Hydrocarbons, C10, aromatics, >1% naphthalene:

Result: Repeated exposure may cause skin dryness or cracking.

Naphthalene:

Species: Rabbit
Exposure time: 24 h
Method: 16CFR1500.41
Result: No skin irritation
GLP: no

Serious eye damage/eye irritation**Components:****Methanol:**

Species: Rabbit
Result: No eye irritation
Method: Other
GLP: no

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Phosphoric acid:

Assessment: Risk of serious damage to eyes.

Remarks: Study not performed as the substance is corrosive.

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:

Species: rabbit eye

Result: Risk of serious damage to eyes.

Method: OECD Test Guideline 405

GLP: yes

Solvent naphtha:

Species: rabbit eye

Result: No eye irritation

Method: EPA

GLP: yes

Remarks: By analogy with a product of similar composition

Naphthalene:

Species: Guinea pig

Result: No eye irritation

Exposure time: 24 h

Method: 16CFR1500.42

GLP: no

Respiratory or skin sensitisation**Components:****Methanol:**

Test Type: Maximisation Test

Exposure routes: Dermal

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Not a skin sensitizer.

GLP: no

Assessment: Toxic if swallowed, in contact with skin or if inhaled.

Phosphoric acid:

Remarks: Study not performed as the substance is corrosive.

Assessment: Causes severe skin burns and eye damage.

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:

Test Type: Guinea pig maximization test

Exposure routes: Skin contact

Species: Guinea pig

Method: Magnusson/Kligman

Result: Not a skin sensitizer.

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GLP: no

Solvent naphtha:

Test Type: Buehler Test

Exposure routes: Dermal

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Not a skin sensitizer.

GLP: yes

Remarks: By analogy with a product of similar composition

Naphthalene:

Test Type: Maximisation Test

Exposure routes: Dermal

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Not a skin sensitizer.

GLP: No information available.

Germ cell mutagenicity**Components:****Methanol:**

Genotoxicity in vitro

: Test Type: Micronucleus test
Test system: Chinese hamster lung cells
Concentration: 40 mg/ml
Method: Other
Result: negative
GLP: No information available.

Test Type: HGPRT assay
Test system: Chinese hamster lung cells
Concentration: 15,8 - 63,3 mg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: No information available.

Test Type: In vitro gene mutation study in bacteria
Test system: Salmonella typhimurium
Concentration: 5 - 5000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: No information available.

Genotoxicity in vivo

: Test Type: Chromosome Aberration Test
Species: Mouse (male)
Strain: C57BL/6 x DBA/2
Application Route: Inhalation
Exposure time: 5 d, 6 h/day

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Dose: 1,04 - 5,3 mg/l
Method: Other
Result: negative
GLP: No information available.

Germ cell mutagenicity - Assessment : It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.

Phosphoric acid:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Concentration: 50 - 5000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster lung cells
Concentration: 112,5 - 450 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Concentration: 4 - 5000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Chromosome Aberration Test
Species: Mouse (male and female)
Strain: NMRI
Application Route: oral (gavage)
Exposure time: 72 h
Dose: 1122 mg/kg
Method: OECD Test Guideline 474
Result: negative

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GLP: yes

Germ cell mutagenicity - Assessment : It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.

Solvent naphtha:

Genotoxicity in vitro : Test Type: Mouse lymphoma assay
Test system: mouse lymphoma cells
Concentration: 3,91 - 37,5 nl/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes
Remarks: By analogy with a product of similar composition

Test Type: Ames test
Test system: Salmonella typhimurium
Concentration: 0,001 - 5 µl/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: No information available.
Remarks: By analogy with a product of similar composition

Test Type: sister chromatid exchange assay
Test system: Chinese hamster ovary cells
Concentration: 0,007 - 0,4 µl/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 479
Result: negative
GLP: yes
Remarks: By analogy with a product of similar composition

Genotoxicity in vivo : Test Type: Mammalian bone marrow sister chromatid exchange
Species: Mouse (male and female)
Strain: B6C3F1
Cell type: Bone marrow cells
Application Route: Intraperitoneal injection
Exposure time: 20 - 22 h
Dose: 400 - 2000 - 4000 mg/kg
Method: Other
Result: ambiguous
GLP: yes

Germ cell mutagenicity - Assessment : It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.

Naphthalene:

Genotoxicity in vitro : Test Type: Other
Test system: human lymphoblastoid cells
Concentration: 40 µg/ml

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Metabolic activation: without
Method: Other
Result: negative
GLP: No information available.

Test Type: Ames test
Test system: Salmonella typhimurium
Concentration: 0,3 - 100 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: No information available.

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Concentration: 15 - 112,5 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: Positive only in the test with metabolic activation
GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)
Strain: CD1
Cell type: Bone marrow cells
Application Route: Intraperitoneal injection
Exposure time: single treatment
Dose: 250-500-1000-3000-5000 mg/kg
Method: Other
Result: ambiguous
GLP: yes

Test Type: Micronucleus test
Species: Rat (male)
Strain: Sprague-Dawley
Cell type: Liver cells
Application Route: oral (gavage)
Exposure time: single treatment
Dose: 600-1000-1600 mg/kg
Method: OECD Test Guideline 486
Result: negative
GLP: yes

Germ cell mutagenicity - Assessment : It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.

Carcinogenicity**Components:****Methanol:**

Species: Rat, (male and female)
Application Route: Inhalation
Exposure time: 24

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Dose: 0,013 - 0,13 - 1,3 mg/l
Group: yes
Frequency of Treatment: 20 h/day
NOAEL: >= 1.3 mg/l
Method: OECD Test Guideline 453
GLP: No information available.

Carcinogenicity - : Not classifiable as a human carcinogen.
Assessment

Phosphoric acid:

Carcinogenicity - : No information available.
Assessment

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:

Carcinogenicity - : Not applicable
Assessment

Solvent naphtha:

Carcinogenicity - : Carcinogenicity classification not possible from current data.
Assessment

Hydrocarbons, C10, aromatics, >1% naphthalene:

Carcinogenicity - : Suspected human carcinogens
Assessment

Naphthalene:

Carcinogenicity - : Limited evidence of a carcinogenic effect.
Assessment

IARC

Group 2B: Possibly carcinogenic to humans

Naphthalene 91-20-3

OSHA

Carcinogen

Naphthalene 91-20-3

NTP

Reasonably anticipated to be a human carcinogen

Naphthalene 91-20-3

Reproductive toxicity**Components:****Methanol:**

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Strain: Sprague-Dawley

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Application Route: Inhalation
Dose: 0,013 - 0,13 - 1,3 mg/l
Duration of Single Treatment: 20 h
General Toxicity - Parent: NOAEC: 1.3 mg/l
General Toxicity F1: NOAEC: 0.13 mg/l
General Toxicity F2: NOAEC: 0.13 mg/l
Method: OECD Test Guideline 416
GLP: No information available.

Effects on foetal
development

: Test Type: Pre-natal
Species: Rat, female
Strain: Sprague-Dawley
Application Route: Inhalation
Dose: 0,27 - 1,33 - 6,65 mg/l
Duration of Single Treatment: 22.7 h
General Toxicity Maternal: NOAEC: 1.33 mg/l
Teratogenicity: NOAEC F1: 1.33 mg/l
Method: OECD Test Guideline 414
GLP: No information available.

Test Type: Pre-natal
Species: Rat
Strain: Long-Evans
Application Route: oral (gavage)
Dose: 1027 - 2054 - 4108 mg/kg
Frequency of Treatment: 1
General Toxicity Maternal: LOAEL: 1,027 mg/kg body weight
Teratogenicity: LOAEL F1: 1,027 mg/kg body weight
Method: OECD Test Guideline 414
GLP: No information available.

Reproductive toxicity -
Assessment

: No reproductive toxicity to be expected.
No teratogenic effects to be expected.

Phosphoric acid:

Effects on fertility

: Test Type: One generation study
Species: Rat, male and female
Strain: Sprague-Dawley
Application Route: oral (gavage)
Dose: 0, 125, 250 and 500 mg/kg
Duration of Single Treatment: 42 - 54 d
General Toxicity F1: NOAEL: >= 500 mg/kg body weight
Method: OECD Test Guideline 422
GLP: yes

Effects on foetal
development

: Test Type: Pre-natal
Species: Mouse, female
Strain: CD1
Application Route: oral (gavage)
Dose: 3,7 - 17,2 - 79,7 - 370 mg/kg
Duration of Single Treatment: 10 d
General Toxicity Maternal: NOAEL: >= 370 mg/kg body weight
Teratogenicity: NOAEL: >= 370 mg/kg body weight

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Method: OECD Test Guideline 414

GLP: no

Remarks: By analogy with a product of similar composition

Test Type: Pre-natal

Species: Rat, female

Strain: wistar

Application Route: oral (gavage)

Dose: 4,1 - 19 - 88,3 - 410 mg/kg

Duration of Single Treatment: 10 d

General Toxicity Maternal: NOAEL: >= 410 mg/kg body weight

Teratogenicity: NOAEL: >= 410 mg/kg body weight

Method: OECD Test Guideline 414

GLP: no

Remarks: By analogy with a product of similar composition

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.
No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:

Effects on fertility : Test Type: Other
Species: Rat, male and female
Application Route: oral (feed)
Dose: 14 - 70 - 350 mg/kg
General Toxicity - Parent: NOAEL: 350 mg/kg body weight
General Toxicity F1: NOAEL: 350 mg/kg body weight
General Toxicity F2: NOAEL: 350 mg/kg body weight
Method: Other
GLP: no
Remarks: By analogy with a product of similar composition

Effects on foetal development : Species: Rat
Application Route: oral (gavage)
Dose: 0,02 - 2 - 300 - 600 mg/kg
General Toxicity Maternal: NOAEL: 300 mg/kg body weight
Teratogenicity: NOAEL: 300 mg/kg body weight
Method: Other
GLP: no
Remarks: By analogy with a product of similar composition

Reproductive toxicity - Assessment : No reproductive toxicity to be expected.
No teratogenic effects to be expected.

Solvent naphtha:

Effects on fertility : Test Type: Fertility/early embryonic development
Species: Rat, male and female
Strain: Sprague-Dawley
Application Route: oral (gavage)
Dose: 325 - 750 - 1500 - 3000 mg/kg
General Toxicity - Parent: NOAEL: 750 mg/kg body weight

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	General Toxicity F1: NOAEL: 750 mg/kg body weight Method: Other GLP: yes Remarks: By analogy with a product of similar composition
Effects on foetal development	: Species: Rat Strain: Sprague-Dawley Application Route: oral (gavage) Dose: 500 - 1000 - 1500 - 2000mg/kg General Toxicity Maternal: NOAEL: 500 mg/kg body weight Teratogenicity: NOAEL: 1,000 mg/kg body weight Method: OECD Test Guideline 414 GLP: No information available. Remarks: By analogy with a product of similar composition
Reproductive toxicity - Assessment	: No reproductive toxicity to be expected. No teratogenic effects to be expected.
Naphthalene:	
Effects on fertility	: Test Type: Fertility/early embryonic development Species: Rat, female Strain: Sprague-Dawley Application Route: oral (gavage) Dose: 50 - 150 - 450 mg/kg General Toxicity F1: NOAEL: 150 mg/kg body weight Method: Other GLP: yes Test Type: Fertility Species: Rat, male and female Strain: Sprague-Dawley Application Route: Inhalation Dose: 11 - 52 - 304 mg/m3 Duration of Single Treatment: 6 h Frequency of Treatment: 5 days/week General Toxicity - Parent: NOAEL: 0.306 mg/kg body weight Method: Other GLP: yes
Effects on foetal development	: Species: Rat Strain: Sprague-Dawley Application Route: oral (gavage) Dose: 50 - 150 - 450 mg/kg Teratogenicity: NOAEL: 150 mg/kg body weight Method: OECD Test Guideline 414 GLP: yes
Reproductive toxicity - Assessment	: No reproductive toxicity to be expected. No teratogenic effects to be expected.

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STOT - single exposure**Components:****Methanol:**

Target Organs: Eyes, Central nervous system

Assessment: Causes damage to organs.

Phosphoric acid:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Solvent naphtha:

Assessment: May cause drowsiness or dizziness.

Hydrocarbons, C10, aromatics, >1% naphthalene:

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

Naphthalene:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure**Components:****Methanol:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Phosphoric acid:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Solvent naphtha:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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Naphthalene:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity**Components:****Methanol:**

Species: Monkey, male

LOAEL: 2,340 mg/kg

Application Route: oral (gavage)

Exposure time: 3 d

Number of exposures: daily

Dose: 2340 mg/kg

Group: no data available

Method: Other

GLP: No information available.

Remarks: Significant toxicity observed in testing

Species: Rat, male and female

NOEL: 0.13 mg/l

LOAEL: 1.3 mg/l

Application Route: Inhalation

Test atmosphere: vapour

Exposure time: 12 m

Number of exposures: 20 h/day

Dose: 0,013 - 0,13 - 1,3 mg/l

Group: yes

Method: OECD Test Guideline 453

GLP: No information available.

Species: Rat, male and female

NOAEL: 6.66 mg/l

Application Route: Inhalation

Test atmosphere: vapour

Exposure time: 4 w

Number of exposures: 6 h/d, 5 d/wk

Dose: 0,663 - 2,65 - 6,63 mg/l

Group: yes

Method: OECD Test Guideline 412

GLP: No information available.

Application Route: Skin contact

Remarks: not tested.

Repeated dose toxicity - : Toxic if swallowed, in contact with skin or if inhaled.
Assessment

Phosphoric acid:

Species: Rat, male and female

NOAEL: 250 mg/kg

Application Route: oral (gavage)

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Exposure time: 42 d (m), 54 d (fem)
Number of exposures: daily
Dose: 125 - 250 - 500 mg/kg
Group: yes
Method: OECD Test Guideline 422
GLP: yes

Repeated dose toxicity - : Causes severe skin burns and eye damage.
Assessment

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:

Species: Rat, male and female
NOAEL: 85 mg/kg
LOAEL: 145 mg/kg
Application Route: Drinking water
Exposure time: 9 m
Number of exposures: daily
Dose: 85 - 145 - 430 mg/kg
Group: yes
Method: Repeated Dose Toxicity (subchronic study)
GLP: no

Solvent naphtha:

Species: Rat, male and female
NOAEL: 750 mg/kg
Application Route: oral (gavage)
Exposure time: 147 d (f), 70-90 d (m)
Number of exposures: daily
Dose: 750 - 1500 - 3000 mg/kg
Group: yes
Method: Other
GLP: yes
Remarks: By analogy with a product of similar composition

Species: Rat, male and female
NOAEL: > 0.024 mg/l
Application Route: Inhalation
Exposure time: 28 d
Number of exposures: 6 hours/day, 5 days/week
Dose: 24 mg/m3
Group: yes
Method: OECD Test Guideline 412
GLP: yes
Remarks: By analogy with a product of similar composition

Species: Rat, male and female
NOAEL: 0.5 mg/l
LOAEL: 1 mg/l
Application Route: Inhalation
Exposure time: 90 d
Number of exposures: continuously
Dose: 500 - 1000 mg/m3

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Group: yes
Method: OECD Test Guideline 413
GLP: No information available.
Remarks: By analogy with a product of similar composition

Species: Rat, male and female
NOAEL: approx. ≥ 0.5 mg/kg
Application Route: Skin contact
Exposure time: 4 w
Number of exposures: 6 hours a day, 5 days a week
Dose: 0,01 - 0,05 - 0,5 ml/kg
Group: yes
Method: OECD Test Guideline 410
GLP: yes
Remarks: By analogy with a product of similar composition

Naphthalene:

Species: Rat, male and female
NOAEL: 100 mg/kg
Application Route: oral (gavage)
Exposure time: 13 w
Number of exposures: daily, 5 d per w
Dose: 25 - 50 - 100 - 200 - 400 mg/k
Group: yes
Method: OECD Test Guideline 408
GLP: no

Species: Rat, male and female
LOAEL: 0.011 mg/l
Application Route: Inhalation
Exposure time: 13 w
Number of exposures: 6 h/d, 5d per w
Dose: 11 -51 - 306 mg/m³
Group: yes
Method: OECD Test Guideline 413
GLP: yes

Species: Rat, male and female
NOAEL: 1,000 mg/kg
Application Route: Skin contact
Exposure time: 13 w
Number of exposures: 5 d per week
Dose: 100 - 300 - 1000 mg/kg
Group: yes
Method: OECD Test Guideline 411
GLP: yes

Aspiration toxicity**Components:****Methanol:**

No aspiration toxicity classification

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Phosphoric acid:

No aspiration toxicity classification

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:

No aspiration toxicity classification

Solvent naphtha:

May be fatal if swallowed and enters airways.

Hydrocarbons, C10, aromatics, >1% naphthalene:

May be fatal if swallowed and enters airways.

Naphthalene:

No aspiration toxicity classification

Experience with human exposure**Product:**

General Information : The possible symptoms known are those derived from the labelling (see section 2).

Further information**Product:**

Remarks: no data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****Methanol:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 15,400 mg/l
End point: mortality
Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: yes
Method: EPA
GLP: No information available.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 18,260 mg/l
End point: Immobilization
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: no data available
Method: OECD Test Guideline 202

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	GLP: No information available. Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to algae/aquatic plants	: ErC50 (Pseudokirchneriella subcapitata (microalgae)): ca. 22,000 mg/l End point: Growth rate Exposure time: 96 h Test Type: static test Analytical monitoring: no data available Method: OECD Test Guideline 201 GLP: No information available.
Toxicity to fish (Chronic toxicity)	: NOEC (Pimephales promelas (fathead minnow)): 446.7 mg/l Exposure time: 28 d Method: Other GLP: no Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia magna (Water flea)): 208 mg/l End point: Reproduction rate Exposure time: 21 d Method: calculated GLP: no Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.
Toxicity to microorganisms	: IC50 (activated sludge): > 1,000 mg/l End point: Bacteria toxicity (growth inhibition) Exposure time: 3 h Test Type: aquatic Analytical monitoring: yes Method: OECD Test Guideline 209 GLP: No information available.
Toxicity to soil dwelling organisms	: LC50 (Eisenia fetida (earthworms)): > 1 mg/cm2 Exposure time: 48 h End point: mortality Method: OECD Test Guideline 207 GLP: No information available. NOEC (Folsomia candida): 10000 mg/kg dry weight (d.w.) Exposure time: 28 d End point: mortality Method: Other GLP: No information available.
Plant toxicity	: IC50: ca. 41,000 mg/l Exposure time: 3 d End point: emergence

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Species: Lactuca sativa (lettuce)
Analytical monitoring: no data available
Method: Other
GLP: no

Sediment toxicity : Remarks: Not applicable

Phosphoric acid:

Toxicity to fish : LD50 (Lepomis macrochirus (Bluegill sunfish)): pH 3-3,3
End point: mortality
Exposure time: 96 h
Test Type: Other
Analytical monitoring: no
Method: Other
GLP: no data available

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

NOEC (Daphnia magna (Water flea)): 56 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

NOEC (Desmodesmus subspicatus (green algae)): 100 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

Toxicity to fish (Chronic toxicity) : Remarks: not required

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: not required

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l
End point: Bacteria toxicity (respiration inhibition)
Exposure time: 3 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 209
GLP: yes

Plant toxicity : Remarks: Not applicable

Toxicity to terrestrial organisms : Remarks: Not applicable

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.67 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: EPA
GLP: no

Toxicity to daphnia and other aquatic invertebrates : LC50 (other aquatic crustacea): 1.8 - 8.6 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: Other
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 127.9 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 201
GLP: yes
Remarks: By analogy with a product of similar composition
The details of the toxic effect relate to the nominal concentration.

EC50 (Desmodesmus subspicatus (green algae)): 47.3 mg/l
End point: Biomass
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 201
GLP: yes
Remarks: By analogy with a product of similar composition

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The details of the toxic effect relate to the nominal concentration.

NOEC (Desmodesmus subspicatus (green algae)): 2.4 mg/l

End point: Growth rate

Exposure time: 72 h

Test Type: static test

Analytical monitoring: no

Method: OECD Test Guideline 201

GLP: yes

Remarks: By analogy with a product of similar composition

The details of the toxic effect relate to the nominal concentration.

Toxicity to fish (Chronic toxicity) : NOEC (Lepomis macrochirus (Bluegill sunfish)): 1 mg/l
Exposure time: 28 d
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD Test Guideline 204
GLP: no

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 2 - 4 mg/l
End point: Reproduction rate
Exposure time: 28 d
Test Type: flow-through test
Analytical monitoring: yes
Method: Other
GLP: no
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to microorganisms : Remarks: no data available

Toxicity to soil dwelling organisms : Test Type: artificial soil
LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg
Exposure time: 14 d
End point: mortality
Method: OECD Test Guideline 207
GLP: yes
Remarks: By analogy with a product of similar composition

Test Type: artificial soil

NOEC (Eisenia fetida (earthworms)): 250 mg/kg

Exposure time: 14 d

End point: Body weight

Method: OECD Test Guideline 207

GLP: yes

Remarks: By analogy with a product of similar composition

Plant toxicity : NOEC: 100 mg/kg
Exposure time: 21 d
End point: Growth
Species: other terrestrial plant

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Analytical monitoring: no
Method: OECD Guide-line 208
Remarks: By analogy with a product of similar composition

Sediment toxicity : NOEC: 2.4 mg/l
Analytical monitoring: yes
Duration: 24 d
Sediment: Natural sediment
Basis for effect: Growth
Method: Other
GLP: no data available
Remarks: By analogy with a product of similar composition

Toxicity to terrestrial organisms : Remarks: The study is not necessary from a scientific perspective.

Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Solvent naphtha:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 2.5 mg/l
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 1.4 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
Remarks: By analogy with a product of similar composition
The details of the toxic effect relate to the nominal concentration.

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): 1.3 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

NOEL (Pseudokirchneriella subcapitata (green algae)): 1 mg/l
End point: Growth rate

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Exposure time: 40 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to fish (Chronic toxicity) : NOEL (Oncorhynchus mykiss (rainbow trout)): 0.098 mg/l
End point: Other
Exposure time: 28 d
Method: Other
GLP: no
Remarks: By analogy with a product of similar composition

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEL (Daphnia magna (Water flea)): 0.48 mg/l
End point: Reproduction rate
Exposure time: 21 d
Test Type: semi-static test
Analytical monitoring: no data available
Method: OECD Test Guideline 211
GLP: yes
Remarks: By analogy with a product of similar composition
The details of the toxic effect relate to the nominal concentration.

Toxicity to microorganisms : LL50 (Tetrahymena pyriformis): 677.9 mg/l
End point: Growth rate
Exposure time: 72 h
Analytical monitoring: no
Method: calculated
GLP: no
Remarks: By analogy with a product of similar composition

NOEL (Tetrahymena pyriformis): 1.641 mg/l
End point: Growth rate
Exposure time: 72 h
Analytical monitoring: no
Method: calculated
GLP: no
Remarks: By analogy with a product of similar composition

Toxicity to soil dwelling organisms : Remarks: Not applicable

Plant toxicity : Remarks: Not applicable

Sediment toxicity : Remarks: Not applicable

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

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Hydrocarbons, C10, aromatics, >1% naphthalene:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 3 - 10 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): > 1 - < 3 mg/l
End point: Biomass
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOELR (Oncorhynchus mykiss (rainbow trout)): 0.487 mg/l
Exposure time: 28 d
Method: Other
Remarks: Estimated value

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): 0.851 mg/l
Exposure time: 21 d
Method: Other

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Naphthalene:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.6 mg/l
Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: No information available.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.16 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: no
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to algae/aquatic plants : NOEC (Lemna gibba G3 (gibbous duckweed)): >= 16 mg/l
End point: Growth rate
Exposure time: 8 d

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Test Type: static test
 Analytical monitoring: yes
 Method: Other
 GLP: No information available.

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus kisutch (coho salmon)): ca. 0.37 mg/l
 End point: weight of young fish
 Exposure time: 40 d
 Test Type: flow-through test
 Analytical monitoring: yes
 Method: Other
 GLP: No information available.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia pulex (Water flea)): 0.59 mg/l
 End point: Reproduction rate
 Exposure time: 125 d
 Test Type: static test
 Analytical monitoring: yes
 Method: Other
 GLP: No information available.

Toxicity to microorganisms : IC50 (Nitrosomonas sp.): 29 mg/l
 End point: Growth rate
 Exposure time: 24 h
 Test Type: aquatic
 Analytical monitoring: no data available
 Method: Other
 GLP: No information available.
 Remarks: The details of the toxic effect relate to the nominal concentration.

Sediment toxicity : Remarks: Not applicable

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Persistence and degradability**Components:****Methanol:**

Biodegradability : aerobic
 Inoculum: activated sludge
 Concentration: 3 - 10 mg/l
 Biochemical Oxygen Demand (BOD)
 Result: Readily biodegradable.
 Biodegradation: 95 %
 Exposure time: 20 d
 Method: Closed Bottle test
 GLP: no

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aerobic
Inoculum: activated sludge
Concentration: 4 - 200 g/l
Biochemical Oxygen Demand (BOD)
Result: Readily biodegradable.
Biodegradation: 82.7 %
Exposure time: 5 d
Method: Other
GLP: no

Photodegradation : Rate constant: 9.32E-13 cm³/s
Degradation (indirect photolysis): 50 % Degradation half life:
17.2 d
GLP: no

Phosphoric acid:

Biodegradability : Remarks: Not applicable

Physico-chemical : Remarks: Can be eliminated from water by precipitation.
removability Can be eliminated from water by flocculation.

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:

Biodegradability : aerobic
Inoculum: activated sludge
Concentration: 17 mg/l, 11,3 mg/l (DOC)
Dissolved organic carbon (DOC)
Result: Readily biodegradable.
Biodegradation: 94 %
Exposure time: 28 d
Method: Tested according to Directive 92/69/EEC.
GLP: yes

Solvent naphtha:

Biodegradability : aerobic
Inoculum: activated sludge, domestic
Concentration: 101 mg/l ThOD
BOD in % of theoretical OD
Result: Readily biodegradable.
Biodegradation: 61 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: yes

Physico-chemical : Remarks: Biodegradable
removability

Hydrocarbons, C10, aromatics, >1% naphthalene:

Biodegradability : aerobic
Inoculum: activated sludge
Result: Inherently biodegradable.

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Method: OECD Test Guideline 301F

Naphthalene:

Biodegradability : aerobic
Inoculum: activated sludge, non-adapted
Concentration: 30 ppm
BOD in % of theoretical OD
Result: Not biodegradable
Biodegradation: ca. 0 %
Exposure time: 28 d
Method: OECD Test Guideline 302C
GLP: no

aerobic
Inoculum: other bacteria
Concentration: 0.15 mg/l
BOD in % of theoretical OD
Result: Readily biodegradable.
Biodegradation: 99.9 %
Exposure time: 15 d
Method: Other
GLP: No information available.

Physico-chemical : Remarks: Biodegradable
removability

Bioaccumulative potential**Components:****Methanol:**

Bioaccumulation : Species: Leuciscus idus (Golden orfe)
Bioconcentration factor (BCF): < 10
Exposure time: 72 h
Method: Other
GLP: No information available.

Partition coefficient: n- : log Pow: -0.77
octanol/water : Method: No information available.
GLP: No information available.

Phosphoric acid:

Bioaccumulation : Remarks: Does not bioaccumulate.
Not relevant for inorganic substances

Partition coefficient: n- : Remarks: Not applicable
octanol/water : inorganic

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:

Bioaccumulation : Species: Pimephales promelas (fathead minnow)
Bioconcentration factor (BCF): 2 - 1,000

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Exposure time: 192 h
Temperature: 70.9 °F / 21.6 °C
Method: OECD Test Guideline 305
GLP: No information available.
Remarks: Does not significantly accumulate in organisms.
By analogy with a product of similar composition

Solvent naphtha:

Bioaccumulation : Remarks: Not applicable

Naphthalene:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 36.5 - 168
Exposure time: 56 d
Concentration: 0.15 mg/l
Method: OECD Test Guideline 305
GLP: no
Remarks: Does not significantly accumulate in organisms.

Mobility in soil**Components:****Methanol:**

Distribution among : Adsorption/Soil
environmental compartments Medium: water - soil
Koc: 1
Method: other (calculated)

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:

Mobility : Remarks: Known distribution to environmental compartments

Distribution among : Adsorption/Soil
environmental compartments Medium: water - soil
log Koc: 3.4 - 3.5
Method: Other

Solvent naphtha:

Distribution among : Adsorption/Soil
environmental compartments Medium: water - soil
Remarks: Not applicable

Naphthalene:

Distribution among : Adsorption/Soil
environmental compartments Medium: water - soil
Koc: ca. 664
Method: Other

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Other adverse effects**Product:**

Additional ecological information : This information is not available.

Components:**Methanol:**

Environmental fate and pathways : not available

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

Additional ecological information : Do not allow to enter ground water, waterways or waste water.

Phosphoric acid:

Environmental fate and pathways : no data available

Results of PBT and vPvB assessment : The substance is not identified as a PBT or as a vPvB substance.
Remarks: Not relevant for inorganic substances

Additional ecological information : Product must not be released into water without pre-treatment.
Can be eliminated from water by flocculation.
Neutralisation will reduce ecotoxic effects.

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:

Environmental fate and pathways : not available

Results of PBT and vPvB assessment : The substance is not identified as a PBT or as a vPvB substance.

Additional ecological information : Do not allow to enter ground water, waterways or waste water.

Solvent naphtha:

Environmental fate and pathways : not available

Results of PBT and vPvB assessment : The substance is not identified as a PBT or as a vPvB substance.

Additional ecological information : Do not allow to enter ground water, waterways or waste water.

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Naphthalene:

Environmental fate and pathways : not available

Results of PBT and vPvB assessment : The substance is not identified as a PBT or as a vPvB substance.

Additional ecological information : Do not allow to enter ground water, waterways or waste water.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

RCRA - Resource Conservation and Recovery Authorization Act : Yes -- If it becomes a waste as sold.

Waste from residues : Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.

SECTION 14. TRANSPORT INFORMATION**DOT Regulation:**UN/NA-number: UN 2924
Proper shipping name: Flammable liquids, corrosive, n.o.s.
Technical Name: Methanol
Phosphoric acidPrimary hazard class: 3
Subsidiary hazard class: 8
Packing group: II
Reportable Quantity: 9,164.000 kg Phosphoric acid
10,571.000 kg Naphthalene
Emergency Response Guide: 132**IATA**UN/ID number: UN 2924
Proper shipping name: Flammable liquid, corrosive, n.o.s.
Hazard inducer(s): Methanol
Phosphoric acidPrimary risk: 3
Subsidiary risk: 8
Packing group: II
Remarks: Shipment permitted**IMDG**UN no.: UN 2924
Proper shipping name: Flammable liquid, corrosive, n.o.s.

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Hazard inducer(s): Methanol
Phosphoric acid

Primary risk: 3
Subsidiary risk: 8
Packing group: II
EmS: F-E S-C

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Methanol	67-56-1	5000	15337
Phosphoric acid	7664-38-2	5000	20140
Naphthalene	91-20-3	100	28441

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Acute toxicity (any route of exposure)
Carcinogenicity
Specific target organ toxicity (single or repeated exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Methanol	67-56-1	>= 30 - < 50 %
Naphthalene	91-20-3	>= 0.1 - < 1 %

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

Methanol	67-56-1	>= 30 - < 50 %
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This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

Methanol	67-56-1	>= 30 - < 50 %
----------	---------	----------------

Clean Water Act

This product is an oil in the context of the USA Clean Water Act (CWA). Spills to USA surface waters, or to watercourse or sewer waters that cause a visible sheen must be reported to the National Response Center.

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The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Phosphoric acid	7664-38-2	$\geq 20 - < 30 \%$
Naphthalene	91-20-3	$\geq 0.1 - < 1 \%$

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Phosphoric acid	7664-38-2	$\geq 20 - < 30 \%$
Naphthalene	91-20-3	$\geq 0.1 - < 1 \%$

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

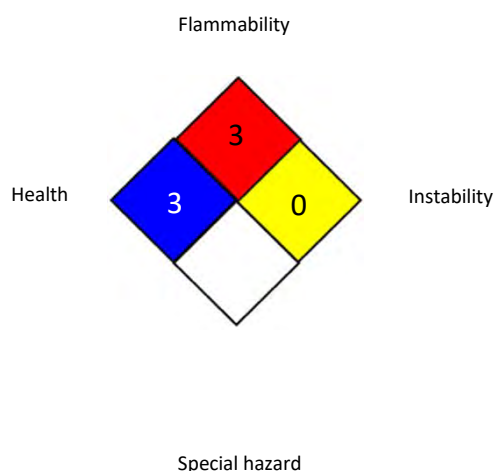
Naphthalene	91-20-3	$\geq 0.1 - < 1 \%$
-------------	---------	---------------------

This product contains the following priority pollutants related to the U.S. Clean Water Act:

Naphthalene	91-20-3	$\geq 0.1 - < 1 \%$
-------------	---------	---------------------

The components of this product are reported in the following inventories:

TSCA : All components are compliant with the TSCA Inventory Notification (Active) rule.

SECTION 16. OTHER INFORMATION**Further information****NFPA 704:****Full text of other abbreviations**

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	: ACGIH - Biological Exposure Indices (BEI)
NIOSH REL	: USA. NIOSH Recommended Exposure Limits
OSHA P0	: USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	: 8-hour, time-weighted average
ACGIH / STEL	: Short-term exposure limit

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NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA P0 / TWA	:	8-hour time weighted average
OSHA P0 / STEL	:	Short-term exposure limit
OSHA Z-1 / TWA	:	8-hour time weighted average

AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Observe all necessary precautions for handling flammable substances. Keep away from sources of heat and ignition. Smoking should be prohibited where material is being handled. Electrical grounding of equipment is required.

Revision Date : 06/24/2022

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and

SAFETY DATA SHEET

**PHASETREAT 6219**

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Substance key: 000000238541

Revision Date: 06/24/2022

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

QUESTIONS

Action 434825

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 434825
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2312327064
Incident Name	NAPP2312327064 BOUNDARY RAIDER 6 FEDERAL #002H @ 30-025-41884
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-41884] BOUNDARY RAIDER 6 FEDERAL #002H
Incident Facility	[fAPP2123645331] BOUNDARY RAIDER 6 FED 2H BATTERY

Location of Release Source*Please answer all the questions in this group.*

Site Name	BOUNDARY RAIDER 6 FEDERAL #002H
Date Release Discovered	05/02/2023
Surface Owner	Federal

Incident Details*Please answer all the questions in this group.*

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

Nature and Volume of Release*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Equipment Failure Flow Line - Injection Chemical (Specify) Released: 0 BBL Recovered: 0 BBL Lost: 0 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Operator found a stainless steel chemical line that was broken at a 1" valve. The chemical sprayed over 98' x 80' by 1/16" on and off location. The well was shut in and the line was isolated to stop the leak. The chemical was Phasetreat 6219 by Clariant.

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QUESTIONS, Page 2

Action 434825

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 434825
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Unavailable.
Reasons why this would be considered a submission for a notification of a major release	Unavailable.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvni.com Date: 02/24/2025
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QUESTIONS, Page 3

Action 434825

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 434825
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	69.9
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	02/24/2025
On what date will (or did) the final sampling or liner inspection occur	02/13/2025
On what date will (or was) the remediation complete(d)	02/24/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0

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

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

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QUESTIONS, Page 4

Action 434825

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 434825
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	<i>Not answered.</i>
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<i>Not answered.</i>
(In Situ) Soil Vapor Extraction	<i>Not answered.</i>
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<i>Not answered.</i>
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<i>Not answered.</i>
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<i>Not answered.</i>
Ground Water Abatement pursuant to 19.15.30 NMAC	<i>Not answered.</i>
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	No soil removal required.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dv.com Date: 02/24/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 434825

QUESTIONS (continued)

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	Action Number: 434825
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 434825

QUESTIONS (continued)

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	Action Number: 434825
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	430435
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/13/2025
What was the (estimated) number of samples that were to be gathered	26
What was the sampling surface area in square feet	4077

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Devon has fulfilled all applicable closure requirements outlined in 19.15.29.12 NMAC
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 02/24/2025

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Action 434825

QUESTIONS (continued)

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QUESTIONS

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

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CONDITIONS

Action 434825

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
nvez	None	6/5/2025