



# SITE CHARACTERIZATION AND REMEDIATION PLAN

*Prepared For:*

*Devon Energy Production Company, LP*

*5315 Buena Vista Dr.*

*Carlsbad, NM 88220*

*Site Information:*

**Boundary Raider 5 Federal #231H**

**Incident Number nAPP2501341167**

*Unit D, Section 8, Township 23 South, Range 32 East*

*Lea County, New Mexico*

*(32.32599 °, -103.70181 °)*

Carlsbad • Houston • Midland • San Antonio • Lubbock • Hobbs • Lafayette

## SYNOPSIS

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Devon Energy Production Company, LP (Devon), presents the following Site Characterization and Remediation Plan (SCRP) detailing soil sampling activities associated with an inadvertent release of crude oil and produced water at the Boundary Raider 5 Federal #231H (Site). Based on laboratory analytical results, Devon proposes this SCR, which summarizes initial response efforts and details remediation objectives to rectify environmental impacts.

## SITE LOCATION AND RELEASE BACKGROUND

The Site is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM). On January 12, 2025, a packing leak on the wellhead released approximately 10 barrels (bbls) of crude oil and 26 bbls of produced water onto the well pad surface and sprayed over the adjacent southwestern pasture. A vacuum truck was immediately dispatched and recovered approximately 9 bbls of crude oil and 24 bbls of produced water. Following the discovery, Etech mapped the observed release footprint, hereafter referred to as the Area of Concern (AOC) (**Figure 2 in Appendix A**), utilizing a handheld Geospatial Positioning System (GPS) receiver. Following the release, Devon immediately notified the New Mexico Oil and Conservation Division (NMOCD) on a Notice of Release (NOR) on January 12, 2025, and subsequent Corrective Action Form C-141 (Form C-141), which was received by the NMOCD on January 14, 2025, and was assigned Incident Number nAPP2501341167.

## SITE CHARACTERIZATION

Etech characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC) considering depth to ground water and the proximity to:

- Any continuously flowing watercourse or any other significant watercourse;
- Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- An occupied permanent residence, school, hospital, institution or church;
- A spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Any freshwater well or spring;
- Incorporated municipal boundaries or a defined municipal fresh water well field covered under a municipal ordinance;
- A wetland;
- A subsurface mine;
- An unstable area (i.e. high karst potential); and
- A 100-year floodplain.

Depth to groundwater is estimated to be between 51 and 100 feet below ground surface (bgs) based off a nearby dry soil boring advance by H & R Enterprises, LLC located approximately 0.35 mile west of the Site. Soil boring (CP-2036-POD1), also identified as (C-04942) in the NMOCD Oil and Gas map was advanced on January 27, 2025, via a truck mounted drill rig equipped with air rotary to a total depth of 55 feet bgs. No fluids were observed throughout the drilling process nor after the 72-hour observation period. Following the observation period, the boring was plugged and abandoned according to the appropriate regulations. The referenced well record is provided in **Appendix B**.

The potential receptors listed above are not within the established buffers in NMAC 19.15.29.12. Receptor details and sources used to determine the site characterization are included in **Figure 1A**, **Figure 1B**, and **Figure 1C** in **Appendix A**.

Based on the results from the desktop review and an estimated depth of groundwater at the Site, the following Closure Criteria was applied:

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria <sup>†</sup>
Chloride	Environmental Protection Agency (EPA) 300.0	10,000 milligram per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	EPA 8015 M/D	2,500 mg/kg
TPH-Gasoline Range Organics (GRO) + TPH-Diesel Range Organics (DRO)	EPA 8015 M/D	1,000 mg/kg
Benzene	EPA 8021B/8260B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8260B/8260B	50 mg/kg

<sup>†</sup>The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13

## DELINEATION SOIL SAMPLING ACTIVITIES

From January to February 2025, Etech conducted delineation activities to assess the presence or absence of residual soil impacts associated with the AOC. Eighteen delineation potholes (PH01 through PH18) were advanced via hand auger and/or mechanical equipment, driven by field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A minimum of two soil samples were collected from each delineation soil sampling location, representing the highest observed field screening concentration(s) and the greatest depth. Field screening results and soil descriptions are included on soil sampling logs shown in **Appendix C**. The delineation soil sample locations are shown in **Figure 2** in **Appendix A**. Photographic documentation of delineation activities is included in **Appendix D**.

Delineation soil samples were placed directly into lab provided pre-cleaned glass jars, packaged with minimal void space, labeled, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures, to Envirotech, Inc. Laboratories (Envirotech) in Farmington, New Mexico, for analysis of COCs.

## DELINEATION LABORATORY ANALYTICAL RESULTS

Laboratory analytical results indicated that concentrations of COCs for all delineation soil samples were below the applicable Site Closure Criteria, except for soil sample PH01 at 0.5-foot bgs. The soil sample exhibited an exceedance of TPH-GRO + TPH-DRO, which is characterized by a concentration of 1,510 mg/kg. Laboratory analytical results are summarized in Table 1 included in **Appendix E**. The executed chain-of-custody form and laboratory reports are provided in **Appendix F**.

Laboratory analytical results for soil samples assisting with lateral delineation (PH07 through PH12, and PH16 through PH18) were in compliance with the Site Closure Criteria and/or reclamation standard.

## CONFIRMATION SOIL SAMPLING ACTIVITIES

On April 3, 2025, Etech collected 5-point composite confirmation soil samples from the AOC (FS01 through FS80) and edge boundaries (SW01 through SW04), representing no more than 200 square feet per composite soil sample. Soil was field screened for VOCs and chloride as previously described. The 5-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon, resealable plastic bag. The samples were then handled and analyzed as previously described. The confirmation soil sample locations are shown in **Figure 3** in **Appendix A**. Photographic documentation of confirmation soil sampling activities is included in **Appendix D**.

## CONFIRMATION LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the confirmation soil samples indicated BTEX concentrations were below the Site Closure Criteria. TPH-GRO + TPH-DRO and/or TPH concentrations present up to 2-feet bgs exceeded the Site Closure Criteria based on delineation soil samples within the AOC. Laboratory analytical results indicated chloride concentrations exceeded the Site Closure Criteria at confirmation soil sampling locations FS77 and FS78.

The remaining confirmation soil samples indicated COCs concentrations were below the Site Closure Criteria. Laboratory analytical results are summarized in **Table 1** included in **Appendix E**. The executed chain-of custody forms and laboratory analytical reports are provided in **Appendix F**.

## PROPOSED REMEDIATION WORK PLAN

Residual soil impact have been sufficiently vertically and horizontally delineated as defined by the Site Closure Criteria. TPH-GRO + TPH-DRO/TPH concentrations exceedances above the Site Closure Criteria were presented within the AOC, specifically within the proximity of delineation soil sampling location PH01 and approximately half of the confirmation soil samples. Further remedial action is required to address residual soil impacts.

Based on delineation and confirmation soil sample laboratory analytical results, the following conclusions regarding the release are presented:

Based on the conclusions presented above, Devon proposes the following remedial corrective actions:

- Excavation(s) will be advanced laterally and vertically until the Site Closure Criteria and/or reclamation standard is met to the Maximum Extent Practical (MEP). The proposed excavation extent can be referenced on **Figure 4** in **Appendix A**. However, advancement of the excavation may be inhibited by active production equipment or utilities, in which case, Devon may implement encroachment requirements for the health and safety of on-site personnel and for the structural integrity of active production equipment. Such restrictions include:
  - Decreasing the proposed excavation depth(s) in order to maintain surface and/or subsurface utility and production equipment stability.
  - Decreasing or alternating the proposed excavation extent(s) in order to maintain surface and/or subsurface utility and production equipment stability.
- Impacted soil will be transported to a nearby landfill facility for disposal under approved Devon waste manifests.
- Following the completion of excavation activities, 5-point composite confirmation soil samples will be collected from the excavation floor and sidewalls. Confirmation soil samples will be collected, handled, and analyzed for COCs by an accredited laboratory as previously described.
  - Due to the large excavation(s) square footage (11,854 square feet) Devon requests a sampling variance of which confirmation soil samples represent a maximum of 400 square feet per soil sample. As such, 30 samples are anticipated to be collected from the excavation(s) floors compared to 60 soil sampling following the standard 200 square foot soil sampling frequency. The sampling frequency for the edge will remain at 200 square feet.
  - The Site is not located within or near any sensitive receptors and depth to groundwater was estimated between 51-100 feet bgs based on soil boring (CP-2036-POD1).
- Upon receipt of confirmation soil sample laboratory analytical results indicating compliance with the applicable Site Closure Criteria, Devon will backfill the excavation(s) with clean, locally



sourced soil and restored to "as close to its original state as possible" and re-seed the total disturbed area with the appropriate BLM seed mix according to BLM guidelines within the top four feet of the pasture.

## **PROPOSED SCHEDULE**

Upon the notice of NMOCD approval of this SCRP, Devon will begin the proposed remediation activities and determine the next appropriate measure of action that will include:

- Documenting the removal of impacted soil and restoration at the Site with a subsequent Closure Request Report detailing excavation confirmation soil sampling activities and Site restoration activities including, but not limited to backfilling the excavation with clean, locally sourced soil and restored to "as close to its original state as possible."

OR

- If warranted, documenting and estimating an amount of impacted soil located directly adjacent and/or beneath active production equipment and utilities to be left in place at the Site with a subsequent Deferral Request Report detailing remediation efforts and soil sampling activities.

Devon believes this SCRP will meet the requirements set forth in NMAC 19.15.29.13 and to be protective of human health, the environment, and groundwater. As Such Devon respectfully requests approval of this SCRP from the NMOCD.

If you have any questions or comments, please do not hesitate to contact Erick Herrera at (432) 305-6416 or [erick@etechenvironment.com](mailto:erick@etechenvironment.com) or Joseph S. Hernandez at (432) 305-6413 or [joseph@etechenvironment.com](mailto:joseph@etechenvironment.com).

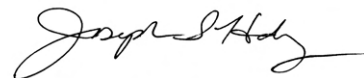
**Appendix G** provides correspondence email notification receipts associated with the subject release.

Sincerely,

Etech Environmental and Safety Solutions, Inc.



Erick Herrera  
Project Geologist



Joseph S. Hernandez  
Senior Managing Geologist

cc: Jim Raley, Devon  
New Mexico Oil Conservation Division  
Bureau of Land Management

## **Appendices:**

**Appendix A:** Figure 1: Site Map  
Figure 1A: Site Characterization Map – Groundwater  
Figure 1B: Site Characterization Map – Surficial Receptors  
Figure 1C: Site Characterization Map – Subsurface Receptors  
Figure 2: Delineation Soil Sample Locations

Site Characterization Remediation Plan  
Boundary Raider #5 Federal 231H  
Incident Number nAPP2501341167

Figure 3: Confirmation Soil Sample Locations

Figure 4: Proposed Excavation Areas

**Appendix B:** Referenced Well Records

**Appendix C:** Soil Sampling Logs

**Appendix D:** Photographic Log

**Appendix E:** Tables

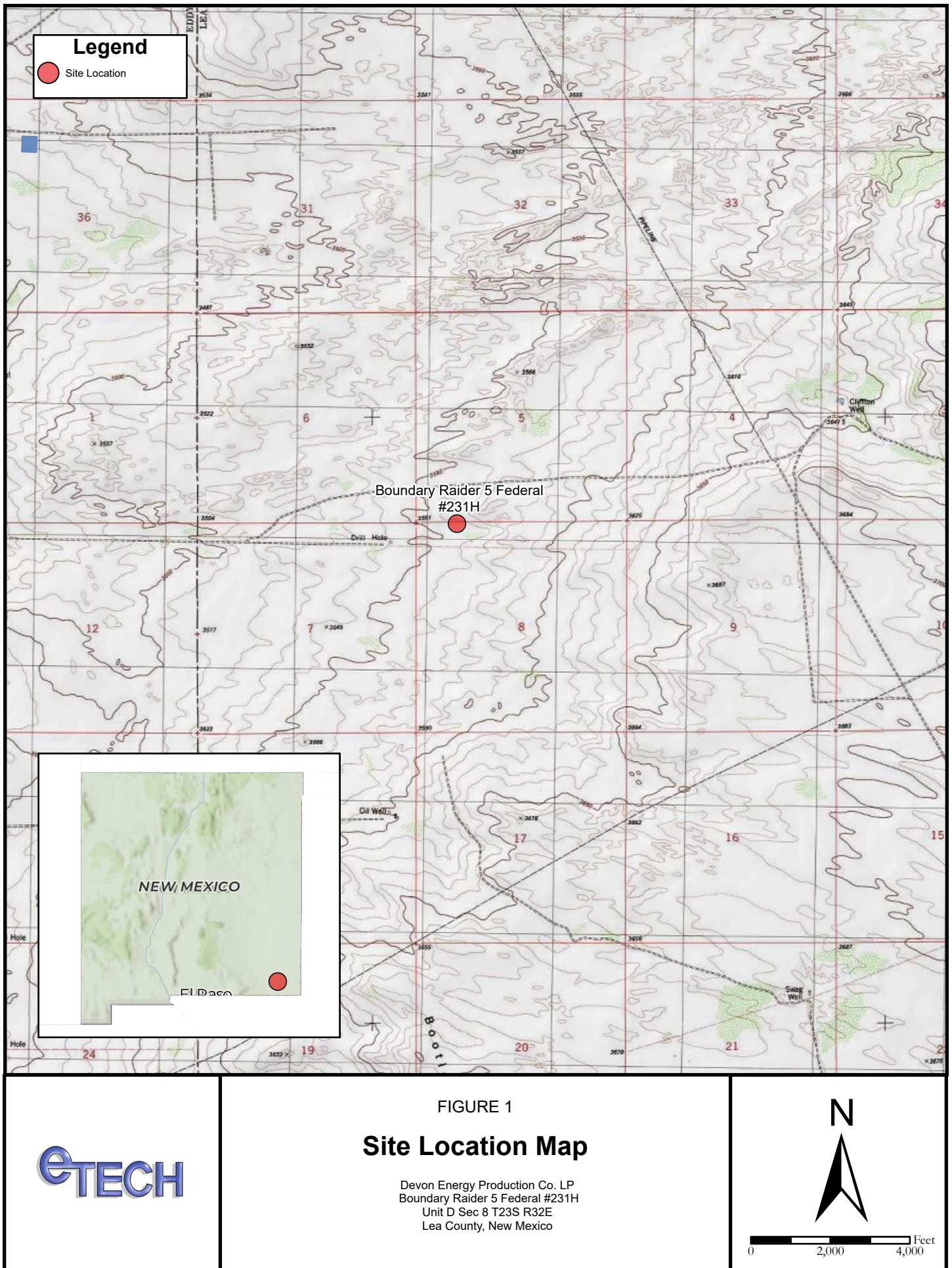
**Appendix F:** Laboratory Analytical Reports & Chain-of-Custody Documentation

**Appendix G:** Correspondence & Notifications

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# APPENDIX A

## Figures





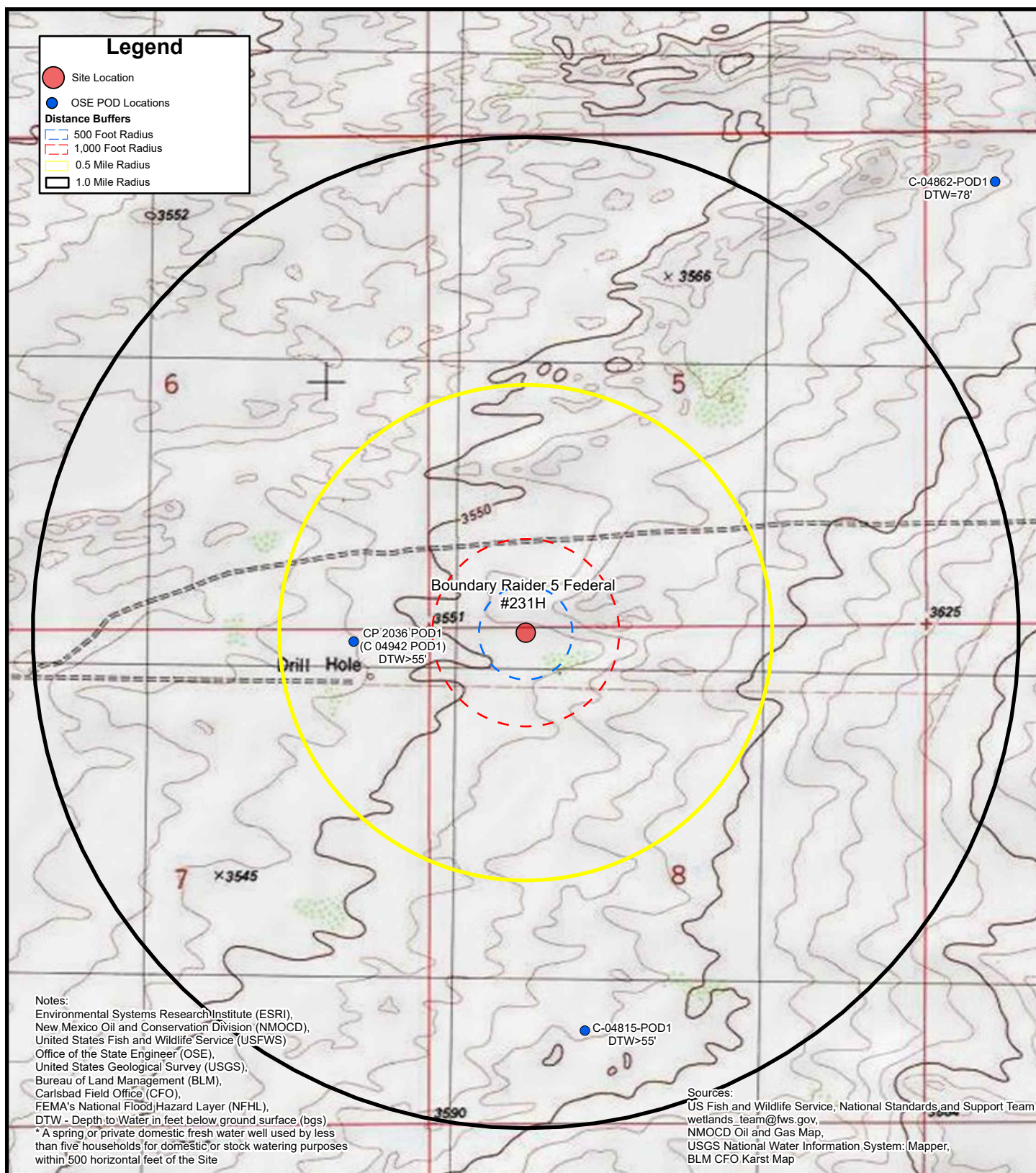
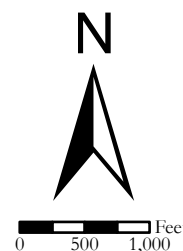


FIGURE 1A  
**Site Characterization Map  
 Groundwater**

Devon Energy Production Company, LP  
 Boundary Raider 5 Federal #231H  
 Unit D Sec 8 T23S R32E  
 Lea County, New Mexico





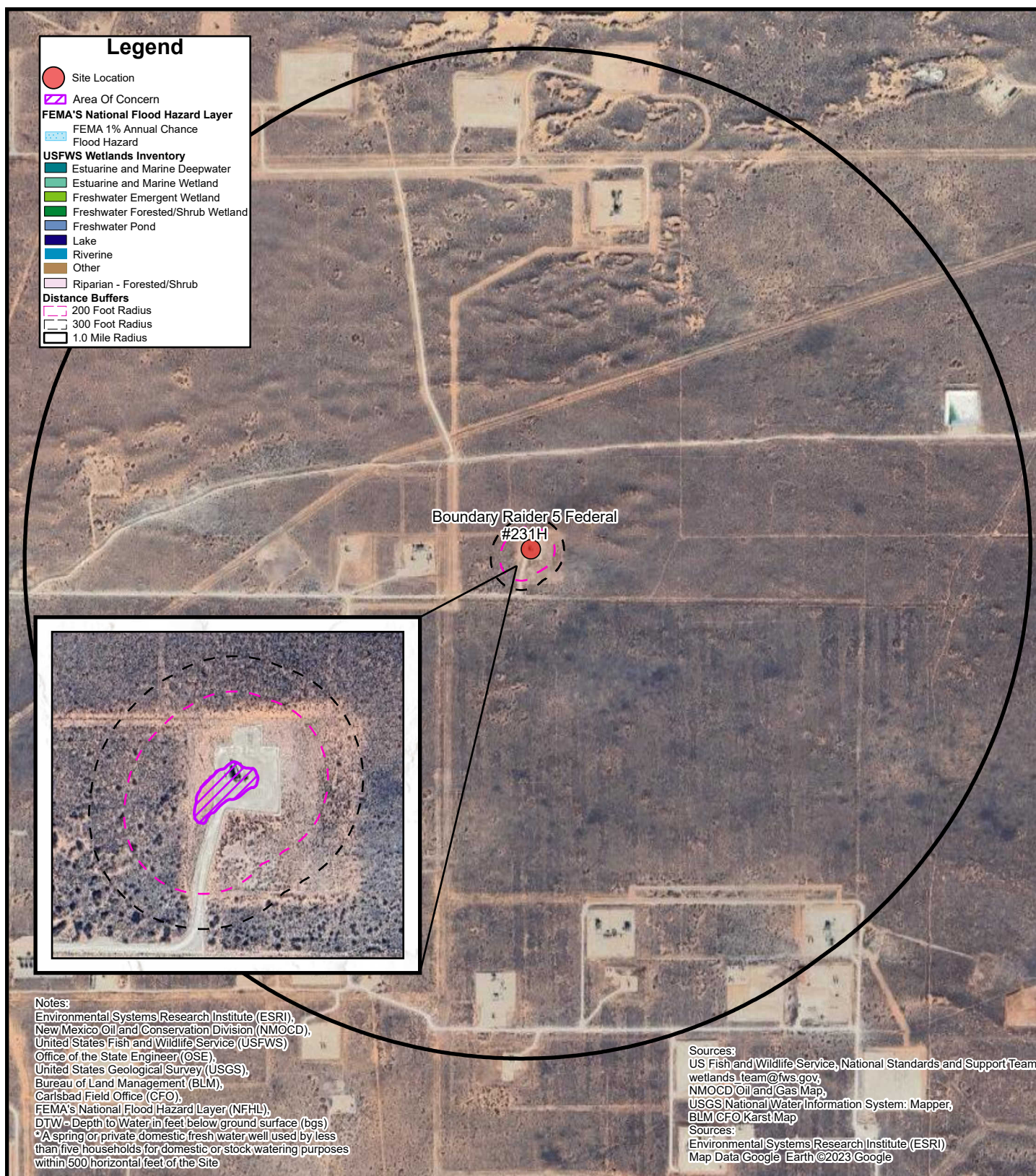
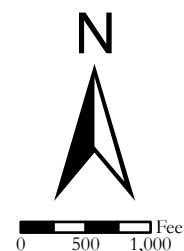
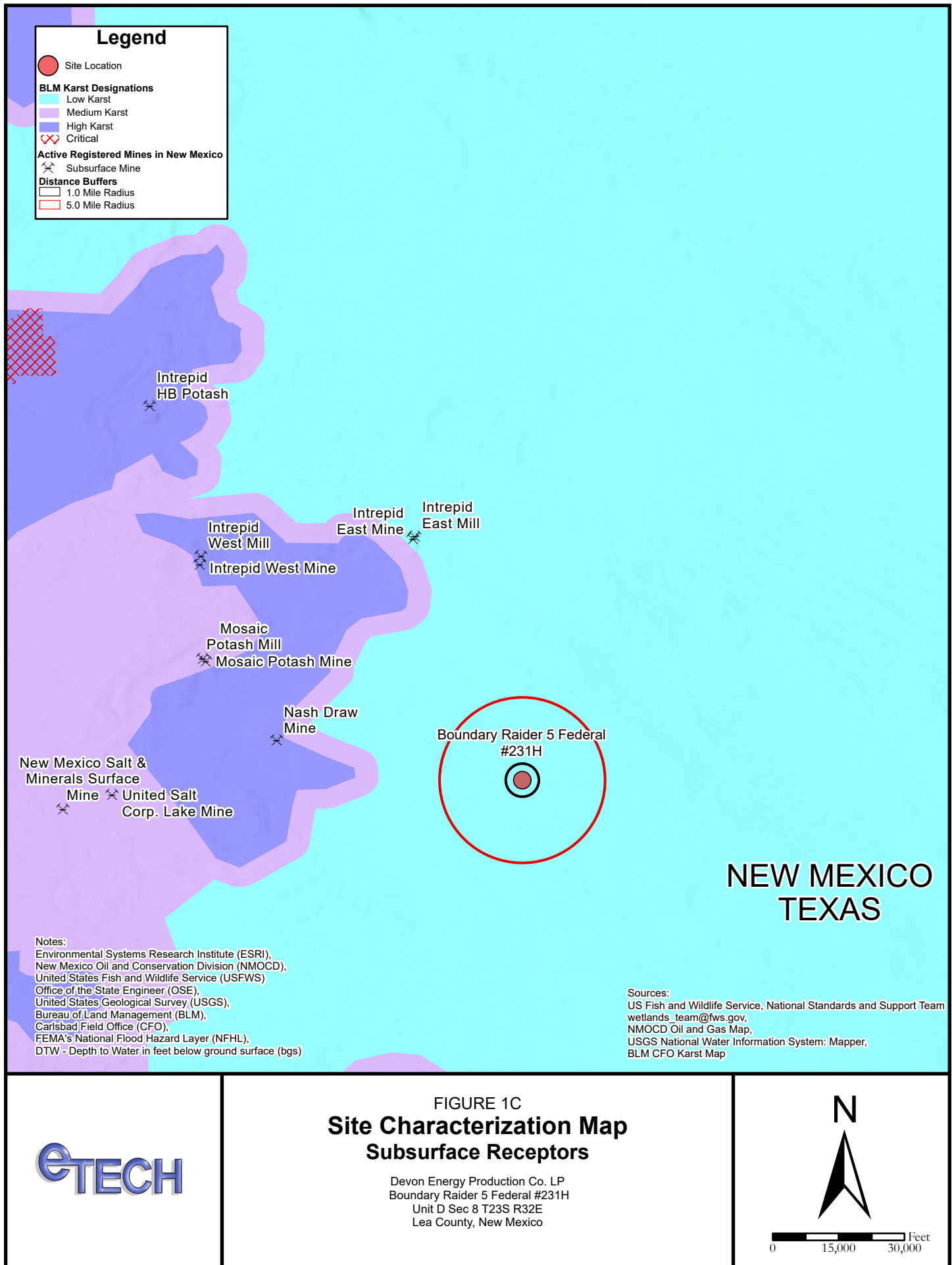


FIGURE 1B  
**Site Characterization Map  
 Surficial Receptors**

Devon Energy Production Company, LP  
 Boundary Raider 5 Federal #231H  
 Unit D Sec 8 T23S R32E  
 Lea County, New Mexico







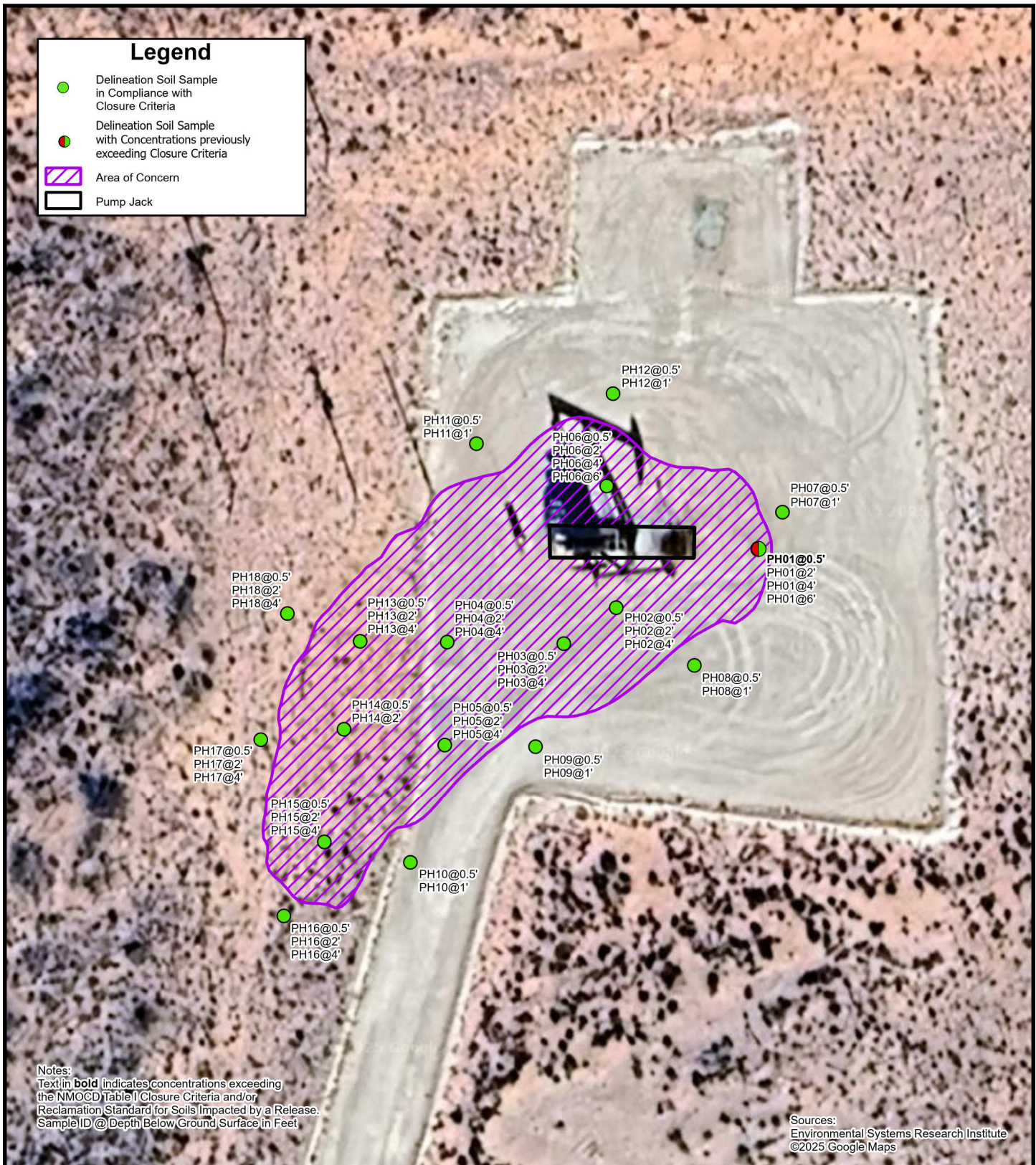


FIGURE 2

## Delineation Soil Sample Locations

Devon Energy Production Company, LP  
Boundary Raider 5 Federal #231H  
Unit D Sec 8 T23S R32E  
Lea County, New Mexico



0 30 60 Feet



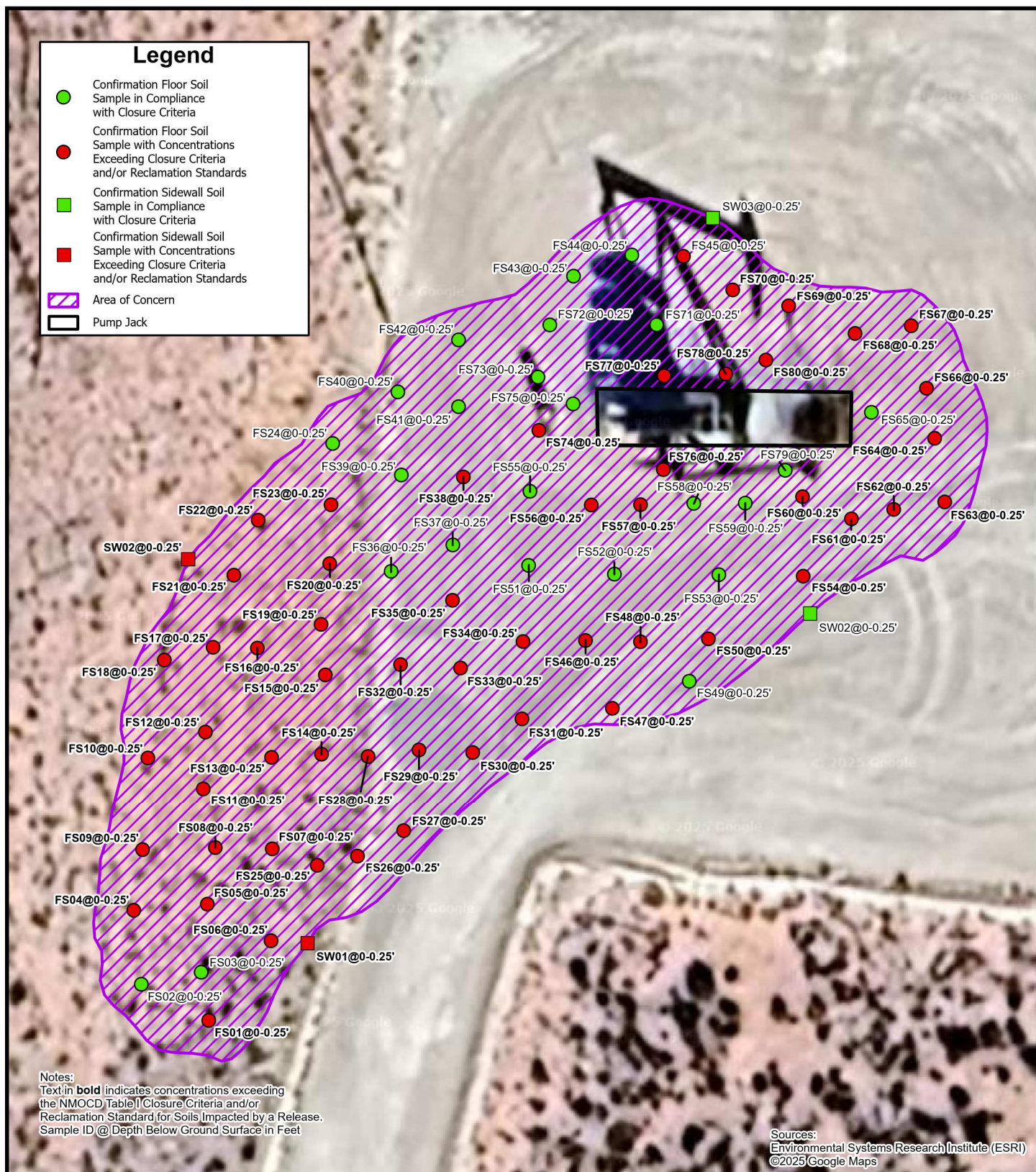
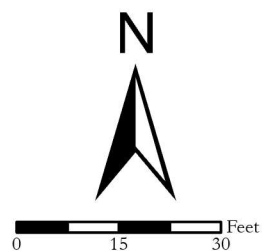


FIGURE 3

## Confirmation Soil Sample Locations

Devon Energy Production Company, LP  
Boundary Raider 5 Federal #231H  
Unit D Sec 8 T23S R32E  
Lea County, New Mexico

eTECH





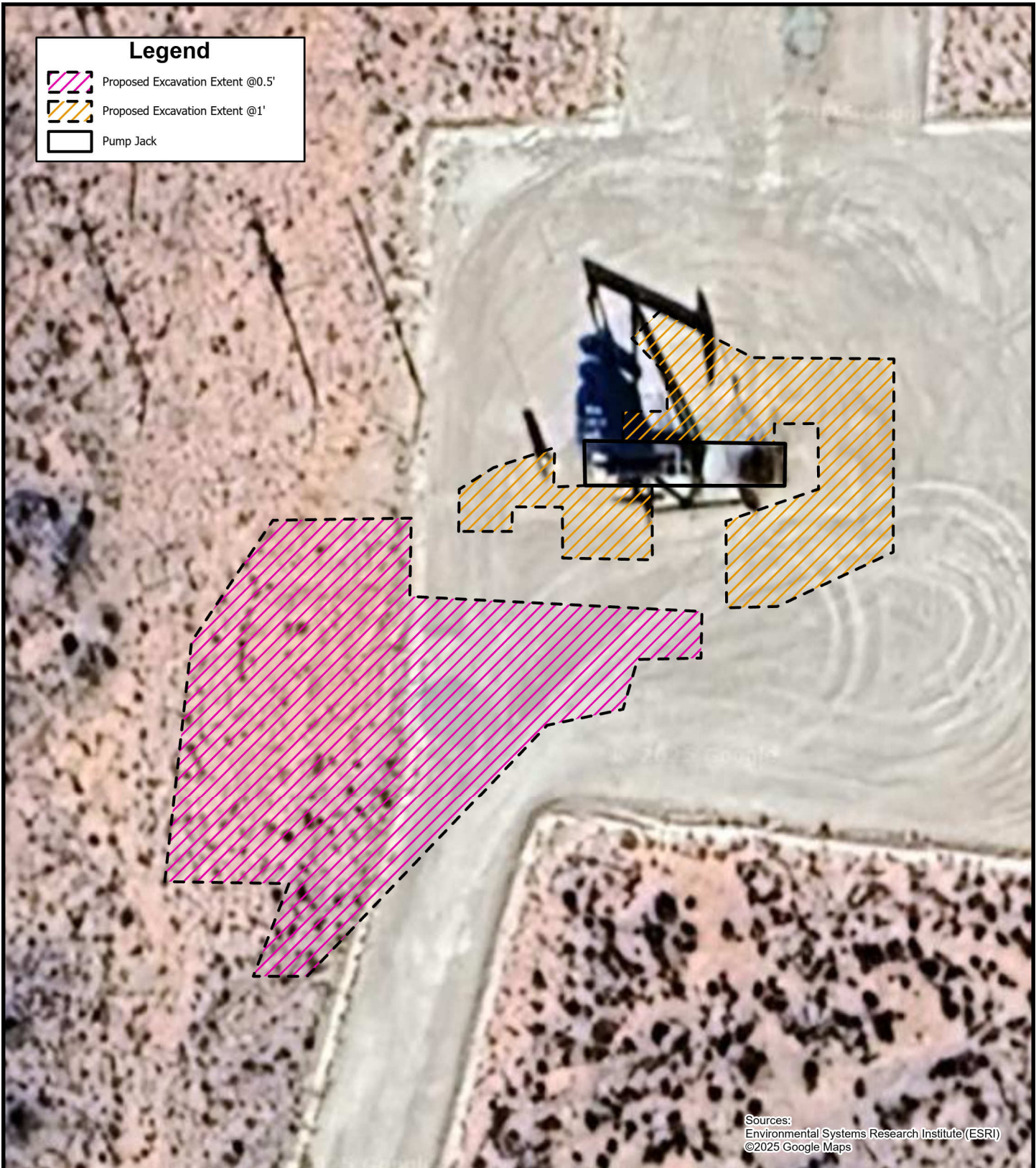
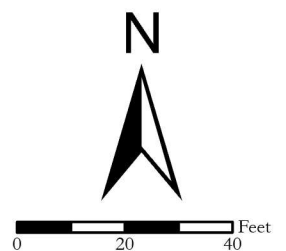


FIGURE 4

### Proposed Excavation Areas

Devon Energy Production Company, LP  
Boundary Raider 5 Federal #231H  
Unit D Sec 8 T23S R32E  
Lea County, New Mexico



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## APPENDIX B

### Well Reference Records





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

<b>1. GENERAL AND WELL LOCATION</b>	OSE POD NO. (WELL NO.) Pod 1		WELL TAG ID NO.		OSE FILE NO(S). CP-2036		
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS 5315 Buena Vista Drive				CITY Carlsbad	STATE NM	ZIP 88220
	WELL LOCATION (FROM GPS)	DEGREES		MINUTES	SECONDS	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
		LATITUDE		19	32.8 N		
	LONGITUDE		103	42	28.2 W		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE S7 T23s R32e							

<b>2. DRILLING &amp; CASING INFORMATION</b>	LICENSE NO. WD-1862		NAME OF LICENSED DRILLER James Hawley			NAME OF WELL DRILLING COMPANY H&R Enterprises, LLC		
	DRILLING STARTED 1-23-25	DRILLING ENDED 1-23-25	DEPTH OF COMPLETED WELL (FT) 55'		BORE HOLE DEPTH (FT) 55'	DEPTH WATER FIRST ENCOUNTERED (FT) N/A		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 1-27-25	
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES – SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER – SPECIFY:					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0'	55'	6'	No casing left in hole				

<b>3. ANNULAR MATERIAL</b>	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE- RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
				N/A		

FOR OSE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 09/22/2022)

FILE NO.

POD NO.

TRN NO.

LOCATION

WELL TAG ID NO.

PAGE 1 OF 2

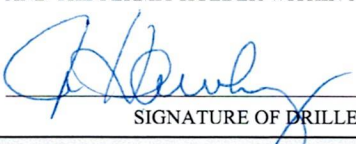


4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0'	15'	15'	Sand	Y    ✓ N	
	15'	25'	10'	Sandy Red Clay	Y    ✓ N	
	25'	30'	5'	Grey Clay	Y    ✓ N	
	30'	55'	25'	Sandy Red Clay	Y    ✓ N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input checked="" type="checkbox"/> OTHER – SPECIFY: DTGW Bore						

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Depth to groundwater bore was gauged for water on 1-27-25. DTGW bore was dry. Temporary well casing was removed, bore hole was backfilled with drill cutting to 10' BGS. Hydrated bentonite hole plug was poured from 10' BGS to surface.	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Nathan Smelcer	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 _____ SIGNATURE OF DRILLER / PRINT SIGNEE NAME	James Hawley _____ DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 09/22/2022)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2



# 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-2036-POD1

Well owner: Devon Energy

Phone No.: \_\_\_\_\_

Mailing address: 5315 Buena Vista Drive

City: Carlsbad State: NM Zip code: 88220

## II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: H&R Enterprises, LLC.
- 2) New Mexico Well Driller License No.: WD-1862 Expiration Date: 6-16-25
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):  
Nathan Smelcer
- 4) Date well plugging began: 1-27-25 Date well plugging concluded: 1-27-25
- 5) GPS Well Location: Latitude: 32 deg, 19 min, 32.8 sec  
Longitude: 103 deg, 42 min, 28.2 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 55' ft below ground level (bgl),  
by the following manner: well sounder
- 7) Static water level measured at initiation of plugging: N/A ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 11-22-24
- 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):

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

[illegible]

MULTIPLY		BY	AND OBTAIN
cubic feet	x	7.4805	= gallons
cubic yards	x	201.97	= gallons

I, James Hawley, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature \_\_\_\_\_

Signature of Well Driller


1-28-25

Date \_\_\_\_\_

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## APPENDIX C

### Soil Sampling Logs

								Sample Name: PH01		Date: 01/31/2025					
								Site Name: Boundary Raider 5 Federal #231							
								Incident Number: nAPP2501341167							
								Job Number: 21689							
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: HB		Method: Excavator					
Site Coordinates: 32.326025, -103.701725								Hole Diameter: N/A		Total Depth: 6 feet					
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.															
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes							
Dry	4,120	940	Yes	PH01	0.5	0.5	CCHE	(0-1') CALICHE, dry, tan, fine to coarse grain, subangular to subrounded gravel (5 cm), low cohesiveness, stained with odor.							
Dry	<116	26.6	No		1	1	SP-SM	(1-6') SAND, dry, brown, poorly graded with silt, very very fine to fine grain, low cohesiveness, some clay, no staining, or odor.							
Dry	196	20.1	No	PH01	2	2									
Dry	228	2.7	No		3	3									
Dry	196	4.5	No	PH01	4	4									
					5	5									
Dry	<116	2.7	No	PH01	6	6									
Total Depth															





Sample Name: PH02

Date: 01/31/2025

Site Name: Boundary Raider 5 Federal #231

Incident Number: nAPP2501341167

Job Number: 21689

**LITHOLOGIC / SOIL SAMPLING LOG**

Logged By: HB

Method: Excavator

Site Coordinates: 32.325968, -103.7018894

Hole Diameter: N/A

Total Depth: 4 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	296	2.7	Yes	PH02	0.5	0.5	CCHE	(0-1') CALICHE, dry, tan, fine to coarse grain, subangular to subrounded gravel (5 cm), low cohesiveness, stained with odor.
Dry	<116	0.7	No		1	1	SP-SM	(1-4') SAND, dry, brown, poorly graded with silt, very very fine to fine grain, low cohesiveness, some clay, no staining, or odor.
Dry	<116	0.5	No	PH02	2	2		
Dry	<116	2.7	No		3	3		
Dry	<116	0.4	No	PH02	4	4		

Total Depth





Sample Name: PH03

Date: 01/31/2025

Site Name: Boundary Raider 5 Federal #231

Incident Number: nAPP2501341167

Job Number: 21689

**LITHOLOGIC / SOIL SAMPLING LOG**

Logged By: HB

Method: Excavator

Site Coordinates: 32.325933, -103.701951

Hole Diameter: N/A

Total Depth: 4 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	140	9.5	Yes	PH03	0.5	0.5	CCHE	(0-1') CALICHE, dry, tan, fine to coarse grain, subangular to subrounded gravel (5 cm), low cohesiveness, stained with odor.
Dry	<116	5.4	No		1	1	SP-SM	(1-4') SAND, dry, brown, poorly graded with silt, very very fine to fine grain, low cohesiveness, some clay, no staining, or odor.
Dry	<116	1.0	No	PH03	2	2		
Dry	<116	1.5	No		3	3		
Dry	<116	0.2	No	PH03	4	4		

Total Depth



Sample Name: PH04

Date: 01/31/2025

Site Name: Boundary Raider 5 Federal #231

Incident Number: nAPP2501341167

Job Number: 21689

**LITHOLOGIC / SOIL SAMPLING LOG**

Logged By: HB

Method: Excavator

Site Coordinates: 32.325934, -103.702086

Hole Diameter: N/A

Total Depth: 4 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	368	0.2	Yes	PH04	0.5	0.5	CCHE	(0-1') CALICHE, dry, tan, fine to coarse grain, subangular to subrounded gravel (5 cm), low cohesiveness, stained with odor.
Dry	<116	0.3	No		1	1	SP-SM	(1-4') SAND, dry, brown, poorly graded with silt, very very fine to fine grain, low cohesiveness, some clay, no staining, or odor.
Dry	<116	0.3	No	PH04	2	2		
Dry	<116	0.5	No		3	3		
Dry	<116	1.2	No	PH04	4	4		

Total Depth



Sample Name: PH05

Date: 01/31/2025

Site Name: Boundary Raider 5 Federal #231

Incident Number: nAPP2501341167

Job Number: 21689

**LITHOLOGIC / SOIL SAMPLING LOG**

Logged By: HB

Method: Excavator

Site Coordinates: 32.325833, -103.702089


Hole Diameter: N/A

Total Depth: 4 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	4.2	Yes	PH05	0.5	0.5	CCHE	(0-1') CALICHE, dry, tan, fine to coarse grain, subangular to subrounded gravel (5 cm), low cohesiveness, stained with odor.
Dry	<116	2.0	No		1	1	SP-SM	(1-4') SAND, dry, brown, poorly graded with silt, very very fine to fine grain, low cohesiveness, some clay, no staining, or odor.
Dry	<116	0.5	No	PH05	2	2		
Dry	<116	1.0	No		3	3		
Dry	<116	1.1	No	PH05	4	4		

Total Depth

								Sample Name: PH06		Date: 01/31/2025, 02/26/2025	
								Site Name: Boundary Raider 5 Federal #231			
								Incident Number: nAPP2501341167			
								Job Number: 21689			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: HB		Method: Excavator	
Site Coordinates: 32.326087, -103.701901								Hole Diameter: N/A		Total Depth: 6 feet	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	2,200	0.6	Yes	PH06	0.5	0.5	CCHE	(0-1') CALICHE, dry, tan, fine to coarse grain, subangular to subrounded gravel (5 cm), low cohesiveness, stained with odor.			
Dry	1,056	0.7	No		1	1	SP-SM	(1-6') SAND, dry, brown, poorly graded with silt, very very fine to fine grain, low cohesiveness, some clay, no staining, or odor.			
Dry	296	0.8	No	PH06	2	2					
Dry	368	0.6	No		3	3					
Dry	332	0.3	No	PH06	4	4					
					5	5					
Dry	140	0.3	No	PH06	6	6					
Total Depth											



Sample Name: PH07      Date: 01/31/2025, 02/26/2025  
 Site Name: Boundary Raider 5 Federal #231  
 Incident Number: nAPP2501341167  
 Job Number: 21689

### LITHOLOGIC / SOIL SAMPLING LOG

Logged By: HB      Method: Excavator

Site Coordinates: 32.326061, -103.701697

Hole Diameter: N/A      Total Depth: 1 foot

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	196	0.8	No	PH07	0.5	0.5	CCHE	(0-0.5') CALICHE, dry, tan, fine to coarse grain, subangular to subrounded gravel (5 cm), low cohesiveness, no staining or odor
Dry	332	0.2	No	PH07	1	1	SP-SM	(0.5-1') SAND, dry, brown, poorly graded with silt, very fine to fine grain, low cohesiveness, some clay, no staining or odor.

Total Depth



Sample Name: PH08 Date: 01/31/2025, 02/26/2025  
 Site Name: Boundary Raider 5 Federal #231  
 Incident Number: nAPP2501341167  
 Job Number: 21689

### LITHOLOGIC / SOIL SAMPLING LOG

Logged By: HB Method: Excavator

Site Coordinates: 32.325900, -103.701710

Hole Diameter: N/A

Total Depth: 1 foot

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	196	0.9	No	PH08	0.5	0.5	CCHE	(0-0.5') CALICHE, dry, tan, fine to coarse grain, subangular to subrounded gravel (5 cm), low cohesiveness, no staining or odor
Dry	<116	0.5	No	PH08	1	1	SP-SM	(0.5-1') SAND, dry, brown, poorly graded with silt, very fine to fine grain, low cohesiveness, some clay, no staining or odor.

Total Depth





Sample Name: PH09      Date: 01/31/2025, 02/26/2025  
 Site Name: Boundary Raider 5 Federal #231  
 Incident Number: nAPP2501341167  
 Job Number: 21689

### LITHOLOGIC / SOIL SAMPLING LOG

Logged By: HB      Method: Excavator

Site Coordinates: 32.325860, -103.701879

Hole Diameter: N/A      Total Depth: 1 foot

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	1	No	PH09	0.5	0.5	CCHE	(0-0.5') CALICHE, dry, tan, fine to coarse grain, subangular to subrounded gravel (5 cm), low cohesiveness, no staining or odor
Dry	<116	0.7	No	PH09	1	1	SP-SM	(0.5-1') SAND, dry, brown, poorly graded with silt, very fine to fine grain, low cohesiveness, some clay, no staining or odor.

Total Depth



Sample Name: PH10      Date: 01/31/2025, 02/26/2025  
 Site Name: Boundary Raider 5 Federal #231  
 Incident Number: nAPP2501341167  
 Job Number: 21689

### LITHOLOGIC / SOIL SAMPLING LOG

Logged By: HB      Method: Excavator

Site Coordinates: 32.325708, -103.702114

Hole Diameter: N/A

Total Depth: 1 foot

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	0.1	No	PH10	0.5	0.5	CCHE	(0-0.5') CALICHE, dry, tan, fine to coarse grain, subangular to subrounded gravel (5 cm), low cohesiveness, no staining or odor
Dry	<116	0.5	No	PH10	1	1	SP-SM	(0.5-1') SAND, dry, brown, poorly graded with silt, very fine to fine grain, low cohesiveness, some clay, no staining or odor.

Total Depth



Sample Name: PH11 Date: 01/31/2025, 02/26/2025  
 Site Name: Boundary Raider 5 Federal #231  
 Incident Number: nAPP2501341167  
 Job Number: 21689

### LITHOLOGIC / SOIL SAMPLING LOG

Logged By: HB Method: Excavator

Site Coordinates: 32.326128, -103.702052

Hole Diameter: N/A

Total Depth: 1 foot

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	228	1.5	No	PH11	0.5	0.5	CCHE	(0-0.5') CALICHE, dry, tan, fine to coarse grain, subangular to subrounded gravel (5 cm), low cohesiveness, no staining or odor
Dry	<116	0.2	No	PH11	1	1	SP-SM	(0.5-1') SAND, dry, brown, poorly graded with silt, very fine to fine grain, low cohesiveness, some clay, no staining or odor.

Total Depth



Sample Name: PH12 Date: 01/31/2025, 02/26/2025  
 Site Name: Boundary Raider 5 Federal #231  
 Incident Number: nAPP2501341167  
 Job Number: 21689

### LITHOLOGIC / SOIL SAMPLING LOG

Logged By: HB Method: Excavator


Site Coordinates: 32.326194, -103.701896

Hole Diameter: N/A Total Depth: 1 foot


Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.


Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	0.2	No	PH12	0.5	0.5	CCHE	(0-0.5') CALICHE, dry, tan, fine to coarse grain, subangular to subrounded gravel (5 cm), low cohesiveness, no staining or odor
Dry	<116	0.1	No	PH12	1	1	SP-SM	(0.5-1') SAND, dry, brown, poorly graded with silt, very fine to fine grain, low cohesiveness, some clay, no staining or odor.

Total Depth

								Sample Name: PH13		Date: 02/18/2025					
								Site Name: Boundary Raider 5 Federal #231							
								Incident Number: nAPP2501341167							
								Job Number: 21689							
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: HB		Method: Hand Auger					
Site Coordinates: 32.325935, -103.702187								Hole Diameter: 3.75 inches		Total Depth: 4 feet					
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.															
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes							
Dry	<116	0.5	No	PH13	0.5	0.5	SP-SM	(0-1') SAND, dry, brown, poorly graded with silt, very fine to fine grain, some cohesiveness, some clay, no staining or odor.							
Dry	<116	0.1	No		1	1	CCHE	(1-2') CALICHE, dry, tan, fine to coarse grain, low cohesiveness, no staining or odor.							
Dry	<116	0.2	No	PH13	2	2	SP-SM	(2-4') SAND, dry, brown, poorly graded with silt, very fine to fine grain, low cohesiveness, some clay, no staining or odor.							
Dry	<116	0.2	No		3	3									
Dry	<116	0.2	No	PH13	4	4									
Total Depth															



								Sample Name: PH14		Date: 02/18/2025, 02/26/2025	
								Site Name: Boundary Raider 5 Federal #231			
								Incident Number: nAPP2501341167			
								Job Number: 21689			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: HB		Method: Hand Auger	
Site Coordinates: 32.325849, -103.702206								Hole Diameter: 3.75 inches		Total Depth: 4 feet	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	<116	0.5	No	PH14	0.5	0.5	SP-SM	(0-4') SAND, dry, brown, poorly graded with silt, very fine to fine grain, low cohesiveness, some clay, no staining or odor.			
Dry	<116	0.8	No		1	1					
Dry	<116	0.7	No	PH14	2	2					
Dry	<116	0.7	No		3	3					
Dry	<116	0.7	No	PH14	4	4					
Total Depth											

								Sample Name: PH15		Date: 02/18/2025	
								Site Name: Boundary Raider 5 Federal #231			
								Incident Number: nAPP2501341167			
								Job Number: 21689			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: HB		Method: Hand Auger	
Site Coordinates: 32.325738, -103.702228								Hole Diameter: 3.75 inches		Total Depth: 4 feet	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	<116	0.8	No	PH15	0.5	0.5	SP-SM	(0-4') SAND, dry, brown, poorly graded with silt, very fine to fine grain, low cohesiveness, some clay, no staining or odor.			
Dry	<116	0.8	No		1	1					
Dry	<116	1.0	No	PH15	2	2					
Dry	<116	0.9	No		3	3					
Dry	<116	0.7	No	PH15	4	4					
Total Depth											



Sample Name: PH16

Date: 02/18/2025

Site Name: Boundary Raider 5 Federal #231

Incident Number: nAPP2501341167

Job Number: 21689

**LITHOLOGIC / SOIL SAMPLING LOG**

Logged By: HB

Method: Hand Auger

Site Coordinates: 32.325665, -103.702275


Hole Diameter: 3.75 inches


Total Depth: 4 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	0.8	No	PH16	0.5	0.5	SP-SM	(0-4') SAND, dry, brown, poorly graded with silt, very fine to fine grain, low cohesiveness, some clay, no staining or odor.
Dry	<116	0.7	No		1	1		
Dry	<116	0.6	No	PH16	2	2		
Dry	<116	0.6	No		3	3		
Dry	<116	0.5	No	PH16	4	4		

Total Depth

								Sample Name: PH17		Date: 02/18/2025	
								Site Name: Boundary Raider 5 Federal #231			
								Incident Number: nAPP2501341167			
								Job Number: 21689			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: HB		Method: Hand Auger	
Site Coordinates: 32.325838, -103.702302								Hole Diameter: 3.75 inches		Total Depth: 4 feet	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	<116	0.8	No	PH17	0.5	0.5	CCHE	(0-1') CALICHE, dry, tan, fine to coarse grain, low cohesiveness, no staining or odor.			
Dry	<116	0.7	No		1	1	SP-SM	(1-4') SAND, dry, brown, poorly graded with silt, very fine to fine grain, low cohesiveness, some clay, no staining or odor.			
Dry	<116	0.4	No	PH17	2	2					
Dry	<116	0.4	No		3	3					
Dry	<116	0.4	No	PH17	4	4					
Total Depth											

								Sample Name: PH18		Date: 02/18/2025, 02/26/2025	
								Site Name: Boundary Raider 5 Federal #231			
								Incident Number: nAPP2501341167			
								Job Number: 21689			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: HB		Method: Hand Auger	
Site Coordinates: 32.325962, -103.702271								Hole Diameter: 3.75 inches		Total Depth: 4 feet	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	<116	0.9	No	PH18	0.5	0.5	SP-SM	(0-4') SAND, dry, brown, poorly graded with silt, very fine to fine grain, low cohesiveness, some clay, no staining or odor.			
Dry	<116	0.9	No		1	1					
Dry	<116	0.9	No	PH18	2	2					
Dry	<116	0.7	No		3	3					
Dry	<116	0.6	No	PH18	4	4					
Total Depth											



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# APPENDIX D

## Photographic Log

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P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



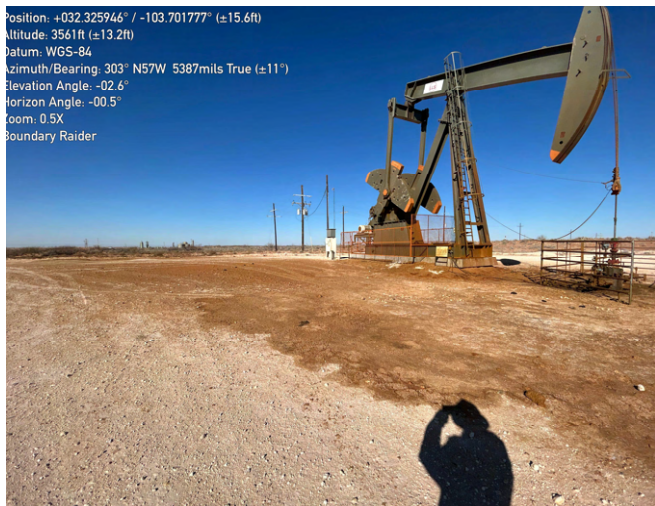
**PHOTOGRAPHIC LOG**

Devon Energy Production Company, LP

Boundary Raider 5 Federal #231H

Incident Number: nAPP2501341167

Position: +032.325946° / -103.701777° (±15.6ft)  
 Altitude: 3561ft (±13.2ft)  
 Datum: WGS-84  
 Azimuth/Bearing: 303° N57W 5387mils True (±11°)  
 Elevation Angle: -02.6°  
 Horizon Angle: -00.5°  
 Zoom: 0.5X  
 Boundary Raider

**Photograph 1****Date: 01/23/2025**

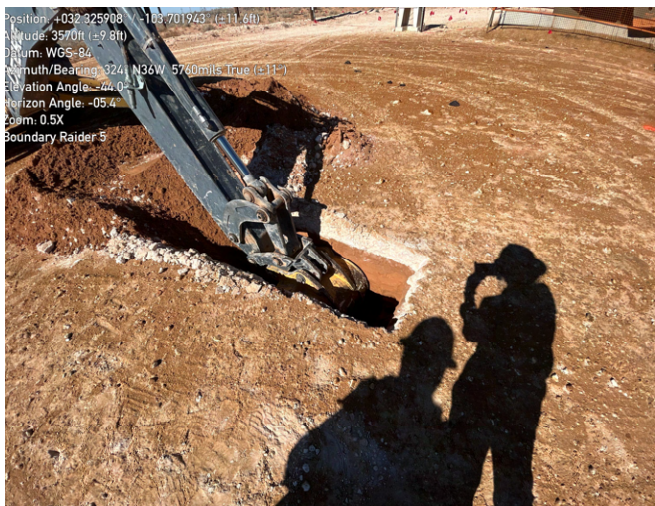
Description: Northwestern view of observed release footprint

Position: +032.325991° / -103.702095° (±11.6ft)  
 Altitude: 3560ft (±9.8ft)  
 Datum: WGS-84  
 Azimuth/Bearing: 218° S38W 3876mils True (±11°)  
 Elevation Angle: -08.7°  
 Horizon Angle: -02.0°  
 Zoom: 1.0X  
 Boundary Raider

**Photograph 2****Date: 01/23/2025**

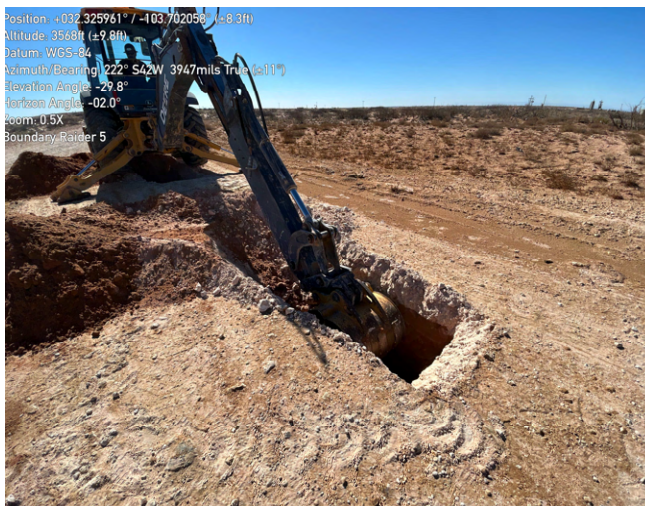
Description: Southwestern view of observed release footprint

Position: +032.325908° / -103.701943° (±11.6ft)  
 Altitude: 3570ft (±9.8ft)  
 Datum: WGS-84  
 Azimuth/Bearing: 324° N36W 5760mils True (±11°)  
 Elevation Angle: -24.0°  
 Horizon Angle: -05.4°  
 Zoom: 0.5X  
 Boundary Raider 5

**Photograph 3****Date: 01/31/2025**

Description: Northwestern view of delineation activities

Position: +032.325961° / -103.702058° (±8.3ft)  
 Altitude: 3568ft (±9.8ft)  
 Datum: WGS-84  
 Azimuth/Bearing: 222° S42W 3947mils True (±11°)  
 Elevation Angle: -29.8°  
 Horizon Angle: -02.0°  
 Zoom: 0.5X  
 Boundary Raider 5

**Photograph 4****Date: 01/31/2025**

Description: Southwestern view of delineation activities



**PHOTOGRAPHIC LOG**

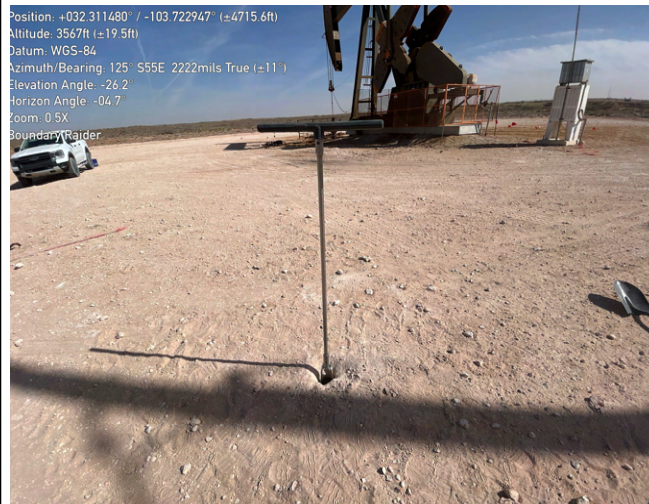
Devon Energy Production Company, LP

Boundary Raider 5 Federal #231H

Incident Number: nAPP2501341167

**Photograph 5****Date: 02/18/2025**

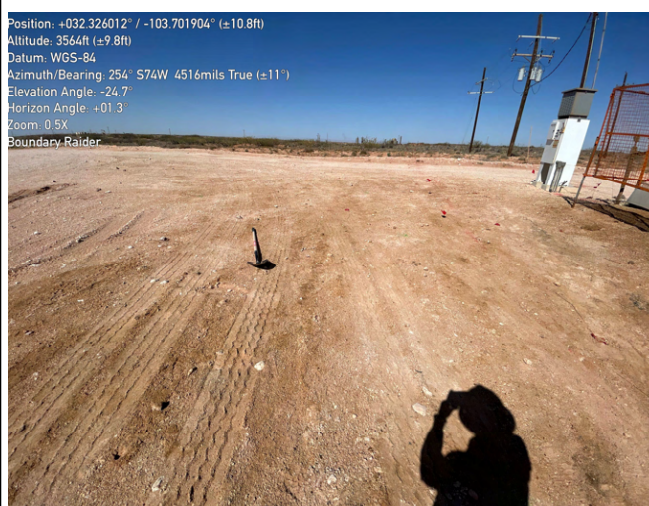
Description: View of delineation activities complete northwest of release footprint

**Photograph 6****Date: 02/26/2025**

Description: View of delineation activities complete southeast of release footprint

**Photograph 7****Date: 04/03/2025**

Description: View of confirmation soil sampling activities

**Photograph 8****Date: 04/03/2025**

Description: View of confirmation soil sampling activities



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# APPENDIX E

## Tables



**Table 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**Devon Energy Permian Co, LP**  
**Boundary Raider 5 Federal #231H**  
**Lea County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Delineation Soil Samples - Incident Number nAPP2501341167										
PH01	01/31/2025	0.5	<0.0250	1.19	64.0	1,450	599	1,510	2,110	4,590
PH01	01/31/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	270
PH01	01/31/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	315
PH01	01/31/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	85.5
PH02	01/31/2025	0.5	<0.0250	<0.0500	<20.0	49.7	<50.0	49.7	49.7	308
PH02	01/31/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
PH02	01/31/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
PH03	01/31/2025	0.5	<0.0250	<0.0500	<20.0	36.2	<50.0	36.2	36.2	121
PH03	01/31/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
PH03	01/31/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
PH04	01/31/2025	0.5	<0.0250	<0.0500	<20.0	151	106	151	257	564
PH04	01/31/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
PH04	01/31/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
PH05	01/31/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	87.9
PH05	01/31/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
PH05	01/31/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
PH06	01/31/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,730
PH06	01/31/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	351
PH06	01/31/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	743
PH06	02/26/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	118
PH07	01/31/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	230
PH07	02/26/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	167
PH08	01/31/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	232
PH08	02/26/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	72.0
PH09	01/31/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	42.0
PH09	02/26/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
PH10	01/31/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	41.6
PH10	02/26/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
PH11	01/31/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	227
PH11	02/26/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	172
PH12	01/31/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	40.7
PH12	02/26/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	149
PH13	02/18/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0



**Table 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**Devon Energy Permian Co, LP**  
**Boundary Raider 5 Federal #231H**  
**Lea County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
PH13	02/18/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
PH13	02/18/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
PH14	02/18/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
PH14	02/18/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
PH14	02/18/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
PH15	02/18/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
PH15	02/18/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
PH15	02/18/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
PH16	02/18/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
PH16	02/18/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
PH16	02/18/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
PH17	02/18/2025	0.5	<0.0250	<0.0500	<20.0	30.3	<50.0	30.3	30.3	29.2
PH17	02/18/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
PH17	02/18/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
PH18	02/26/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
PH18	02/26/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
PH18	02/26/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
Confirmation Soil Samples - Incident Number nAPP2501341167										
FS01	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	111	71.7	111	183	202
FS02	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	49.7	<50.0	49.7	49.7	68.1
FS03	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	55.7
FS04	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	87.5	62.0	87.5	150	105
FS05	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	127	108	127	235	197
FS06	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	86.6	62.3	86.6	149	214
FS07	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	64.8	57.0	64.8	122	81.0
FS08	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	127	92.7	127	220	227
FS09	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	70.4	98.6	70.4	169	113
FS10	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	63.8	51.8	63.8	116	85.1
FS11	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	298	238	298	536	580
FS12	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	321	264	321	585	494
FS13	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	102	82.4	102	184	150
FS14	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	83.6	69.6	83.6	153	105
FS15	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	272	235	272	507	388
FS16	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	285	221	285	506	394





**Table 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**Devon Energy Permian Co, LP**  
**Boundary Raider 5 Federal #231H**  
**Lea County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
FS17	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	82.3	69.7	82.3	152	71.7
FS18	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	66.5	53.8	66.5	120	87.1
FS19	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	152	126	152	278	120
FS20	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	345	259	345	604	405
FS21	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	76.2	52.1	76.2	128	122
FS22	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	96.4	73.2	96.4	170	88.3
FS23	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	175	123	175	298	329
FS24	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	30.5	<50.0	30.5	30.5	167
FS25	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	233	164	233	397	926
FS26	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	156	166	156	322	723
FS27	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	1,090	741	<b>1,090</b>	<b>1,830</b>	2,040
FS28	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	1,140	814	<b>1,140</b>	1,950	2,120
FS29	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	1,030	807	<b>1,030</b>	1,840	2,060
FS30	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	1,200	970	<b>1,200</b>	2,170	2,170
FS31	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	1,400	1,040	<b>1,400</b>	2,440	2,240
FS32	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	1,330	920	<b>1,330</b>	2,250	2,670
FS33	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	1,850	1,530	<b>1,850</b>	<b>3,380</b>	3,020
FS34	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	4,000	3,670	<b>4,000</b>	<b>7,670</b>	3,520
FS35	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	2,070	1,620	<b>2,070</b>	<b>3,690</b>	1,630
FS36	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	495	333	495	828	451
FS37	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	970	695	970	1,670	873
FS38	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	2,670	2,200	<b>2,670</b>	<b>4,870</b>	2,030
FS39	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	657	539	657	1,200	468
FS40	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	806	577	806	1,380	847
FS41	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	712	492	712	1,200	4,180
FS42	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	241	311	241	552	7,210
FS43	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	118	103	118	221	4,470
FS44	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	288	240	288	528	7,370
FS45	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	1,550	1,030	<b>1,550</b>	<b>2,580</b>	2,830
FS46	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	1,630	1,120	<b>1,630</b>	<b>2,750</b>	1,940
FS47	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	1,300	775	<b>1,300</b>	2,080	2,370
FS48	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	1,720	1,080	<b>1,720</b>	<b>2,800</b>	2,680
FS49	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	641	591	641	1,230	1,940
FS50	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	1,230	940	<b>1,230</b>	2,170	2,020



**Table 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**Devon Energy Permian Co, LP**  
**Boundary Raider 5 Federal #231H**  
**Lea County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
FS51	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	608	430	608	1,040	2,890
FS52	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	638	484	638	1,120	3,350
FS53	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	620	437	620	1,060	2,880
FS54	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	4,410	3,650	<b>4,410</b>	<b>8,060</b>	3,860
FS55	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	566	402	566	968	2,940
FS56	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	1,370	1,080	<b>1,370</b>	2,450	2,430
FS57	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	1,900	1,680	<b>1,900</b>	<b>3,580</b>	2,860
FS58	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	706	733	706	1,490	2,010
FS59	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	700	783	700	1,480	1,880
FS60	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	5,610	3,890	<b>5,610</b>	<b>9,500</b>	3,600
FS61	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	2,170	1,710	<b>2,170</b>	<b>3,880</b>	3,100
FS62	04/03/2025	0-0.25	<0.0250	<0.0634	<20.0	1,880	1,510	<b>1,880</b>	<b>3,390</b>	2,470
FS63	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	1,960	1,550	<b>1,960</b>	<b>3,510</b>	2,960
FS64	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	4,720	3,450	<b>4,720</b>	<b>8,170</b>	3,120
FS65	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	644	357	644	1,000	582
FS66	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	2,110	1,490	<b>2,110</b>	<b>3,600</b>	2,260
FS67	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	2,540	1,690	<b>2,540</b>	<b>4,230</b>	2,090
FS68	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	2,020	1,610	<b>2,020</b>	<b>3,630</b>	2,160
FS69	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	2,290	1,810	<b>2,290</b>	<b>4,100</b>	2,370
FS70	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	1,020	783	<b>1,020</b>	1,800	2,130
FS71	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	898	687	898	1,590	2,130
FS72	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	683	639	683	1,320	1,880
FS73	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	469	448	469	917	1,610
FS74	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	1,760	1,200	<b>1,760</b>	<b>2,960</b>	2,580
FS75	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	37.9
FS76	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	4,720	2,850	<b>4,720</b>	<b>7,570</b>	4,660
FS77	04/03/2025	0-0.25	<0.0250	<0.0500	<40.0	15,700	6,280	<b>15,700</b>	<b>22,000</b>	<b>24,600</b>
FS78	04/03/2025	0-0.25	<0.0250	0.535	<20.0	9,530	6,790	<b>9,530</b>	<b>16,300</b>	<b>65,600</b>
FS79	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	445	332	445	777	5,990
FS80	04/03/2025	0-0.25	<0.0250	4.10	42.4	18,800	6,690	<b>18,800</b>	<b>25,500</b>	9,780



**Table 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**Devon Energy Permian Co, LP**  
**Boundary Raider 5 Federal #231H**  
**Lea County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
SW01	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	86.7	52.5	86.7	139	141
SW02	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	76.2	50.0	76.2	126	90.4
SW03	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	57.1	<50.0	57.1	57.1	81.7
SW04	04/03/2025	0-0.25	<0.0250	<0.0500	<20.0	112	66.1	112	178	153

**Notes:**

bgs: below ground surface

mg/kg: milligrams per kilogram

NE: Closure Criteria Not Established

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Text in "grey" represents excavated soil samples

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard<sup>†</sup> for Soils Impacted by a Release

<sup>†</sup> The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

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## APPENDIX F

### Laboratory Analytical Reports & Chain-of-Custody Documentation



Report to:  
Anna Byers



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: Boundary Raider 5 Federal #231H

Work Order: E502011

Job Number: 01058-0007

Received: 2/4/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
2/11/25

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.  
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 2/11/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: Boundary Raider 5 Federal #231H  
Workorder: E502011  
Date Received: 2/4/2025 6:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/4/2025 6:30:00AM, under the Project Name: Boundary Raider 5 Federal #231H.

The analytical test results summarized in this report with the Project Name: Boundary Raider 5 Federal #231H 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

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Boundary Raider 5 Federal #231H Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 02/11/25 07:52
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 0.5'	E502011-01A	Soil	01/31/25	02/04/25	Glass Jar, 2 oz.
PH01 2'	E502011-02A	Soil	01/31/25	02/04/25	Glass Jar, 2 oz.
PH02 0.5'	E502011-03A	Soil	01/31/25	02/04/25	Glass Jar, 2 oz.
PH02 2'	E502011-04A	Soil	01/31/25	02/04/25	Glass Jar, 2 oz.
PH03 0.5'	E502011-05A	Soil	01/31/25	02/04/25	Glass Jar, 2 oz.
PH03 2'	E502011-06A	Soil	01/31/25	02/04/25	Glass Jar, 2 oz.
PH04 0.5'	E502011-07A	Soil	01/31/25	02/04/25	Glass Jar, 2 oz.
PH04 2'	E502011-08A	Soil	01/31/25	02/04/25	Glass Jar, 2 oz.
PH05 0.5'	E502011-09A	Soil	01/31/25	02/04/25	Glass Jar, 2 oz.
PH05 2'	E502011-10A	Soil	01/31/25	02/04/25	Glass Jar, 2 oz.
PH06 0.5'	E502011-11A	Soil	01/31/25	02/04/25	Glass Jar, 2 oz.
PH06 2'	E502011-12A	Soil	01/31/25	02/04/25	Glass Jar, 2 oz.
PH06 0.5'	E502011-13A	Soil	01/31/25	02/04/25	Glass Jar, 2 oz.
PH06 2'	E502011-14A	Soil	01/31/25	02/04/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/11/2025 7:52:29AM

**PH01 0.5'**

**E502011-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2506035
Benzene	ND	0.0250	1	02/04/25	02/06/25	
Ethylbenzene	<b>0.165</b>	0.0250	1	02/04/25	02/06/25	
Toluene	<b>0.0355</b>	0.0250	1	02/04/25	02/06/25	
o-Xylene	<b>0.352</b>	0.0250	1	02/04/25	02/06/25	
p,m-Xylene	<b>0.637</b>	0.0500	1	02/04/25	02/06/25	
Total Xylenes	<b>0.989</b>	0.0250	1	02/04/25	02/06/25	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	02/04/25	02/06/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	02/04/25	02/06/25	
<i>Surrogate: Toluene-d8</i>		111 %	70-130	02/04/25	02/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2506035
Gasoline Range Organics (C6-C10)	<b>64.0</b>	20.0	1	02/04/25	02/06/25	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	02/04/25	02/06/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	02/04/25	02/06/25	
<i>Surrogate: Toluene-d8</i>		111 %	70-130	02/04/25	02/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2506037
Diesel Range Organics (C10-C28)	<b>1450</b>	25.0	1	02/04/25	02/05/25	
Oil Range Organics (C28-C36)	<b>599</b>	50.0	1	02/04/25	02/05/25	
<i>Surrogate: n-Nonane</i>		110 %	61-141	02/04/25	02/05/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2506033
Chloride	<b>4590</b>	40.0	2	02/04/25	02/04/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/11/2025 7:52:29AM

## PH01 2'

## E502011-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2506035
Benzene	ND	0.0250	1	02/04/25	02/06/25	
Ethylbenzene	ND	0.0250	1	02/04/25	02/06/25	
Toluene	ND	0.0250	1	02/04/25	02/06/25	
o-Xylene	ND	0.0250	1	02/04/25	02/06/25	
p,m-Xylene	ND	0.0500	1	02/04/25	02/06/25	
Total Xylenes	ND	0.0250	1	02/04/25	02/06/25	
Surrogate: Bromofluorobenzene	98.7 %	70-130		02/04/25	02/06/25	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		02/04/25	02/06/25	
Surrogate: Toluene-d8	103 %	70-130		02/04/25	02/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2506035
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/04/25	02/06/25	
Surrogate: Bromofluorobenzene	98.7 %	70-130		02/04/25	02/06/25	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		02/04/25	02/06/25	
Surrogate: Toluene-d8	103 %	70-130		02/04/25	02/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2506037
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/25	02/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/25	02/05/25	
Surrogate: n-Nonane	103 %	61-141		02/04/25	02/05/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2506033
Chloride	270	20.0	1	02/04/25	02/04/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/11/2025 7:52:29AM

PH02 0.5'

E502011-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2506035
Benzene	ND	0.0250	1	02/04/25	02/06/25	
Ethylbenzene	ND	0.0250	1	02/04/25	02/06/25	
Toluene	ND	0.0250	1	02/04/25	02/06/25	
o-Xylene	ND	0.0250	1	02/04/25	02/06/25	
p,m-Xylene	ND	0.0500	1	02/04/25	02/06/25	
Total Xylenes	ND	0.0250	1	02/04/25	02/06/25	
Surrogate: Bromofluorobenzene		100 %	70-130	02/04/25	02/06/25	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	02/04/25	02/06/25	
Surrogate: Toluene-d8		105 %	70-130	02/04/25	02/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2506035
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/04/25	02/06/25	
Surrogate: Bromofluorobenzene		100 %	70-130	02/04/25	02/06/25	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	02/04/25	02/06/25	
Surrogate: Toluene-d8		105 %	70-130	02/04/25	02/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2506037
Diesel Range Organics (C10-C28)	49.7	25.0	1	02/04/25	02/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/25	02/05/25	
Surrogate: n-Nonane		99.7 %	61-141	02/04/25	02/05/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2506033
Chloride	308	20.0	1	02/04/25	02/04/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/11/2025 7:52:29AM

## PH02 2'

## E502011-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2506035
Benzene	ND	0.0250	1	02/04/25	02/06/25	
Ethylbenzene	ND	0.0250	1	02/04/25	02/06/25	
Toluene	ND	0.0250	1	02/04/25	02/06/25	
o-Xylene	ND	0.0250	1	02/04/25	02/06/25	
p,m-Xylene	ND	0.0500	1	02/04/25	02/06/25	
Total Xylenes	ND	0.0250	1	02/04/25	02/06/25	
Surrogate: Bromofluorobenzene	98.0 %	70-130		02/04/25	02/06/25	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		02/04/25	02/06/25	
Surrogate: Toluene-d8	102 %	70-130		02/04/25	02/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2506035
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/04/25	02/06/25	
Surrogate: Bromofluorobenzene	98.0 %	70-130		02/04/25	02/06/25	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		02/04/25	02/06/25	
Surrogate: Toluene-d8	102 %	70-130		02/04/25	02/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2506037
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/25	02/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/25	02/05/25	
Surrogate: n-Nonane	102 %	61-141		02/04/25	02/05/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2506033
Chloride	ND	20.0	1	02/04/25	02/04/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/11/2025 7:52:29AM

PH03 0.5'

E502011-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2506035
Benzene	ND	0.0250	1	02/04/25	02/06/25	
Ethylbenzene	ND	0.0250	1	02/04/25	02/06/25	
Toluene	ND	0.0250	1	02/04/25	02/06/25	
o-Xylene	ND	0.0250	1	02/04/25	02/06/25	
p,m-Xylene	ND	0.0500	1	02/04/25	02/06/25	
Total Xylenes	ND	0.0250	1	02/04/25	02/06/25	
Surrogate: Bromofluorobenzene		101 %	70-130	02/04/25	02/06/25	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	02/04/25	02/06/25	
Surrogate: Toluene-d8		103 %	70-130	02/04/25	02/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2506035
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/04/25	02/06/25	
Surrogate: Bromofluorobenzene		101 %	70-130	02/04/25	02/06/25	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	02/04/25	02/06/25	
Surrogate: Toluene-d8		103 %	70-130	02/04/25	02/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2506037
Diesel Range Organics (C10-C28)	36.2	25.0	1	02/04/25	02/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/25	02/05/25	
Surrogate: n-Nonane		109 %	61-141	02/04/25	02/05/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2506033
Chloride	121	20.0	1	02/04/25	02/04/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/11/2025 7:52:29AM

## PH03 2'

## E502011-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2506035	
Benzene	ND	0.0250	1	02/04/25	02/07/25	
Ethylbenzene	ND	0.0250	1	02/04/25	02/07/25	
Toluene	ND	0.0250	1	02/04/25	02/07/25	
o-Xylene	ND	0.0250	1	02/04/25	02/07/25	
p,m-Xylene	ND	0.0500	1	02/04/25	02/07/25	
Total Xylenes	ND	0.0250	1	02/04/25	02/07/25	
Surrogate: Bromofluorobenzene	99.1 %	70-130		02/04/25	02/07/25	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		02/04/25	02/07/25	
Surrogate: Toluene-d8	104 %	70-130		02/04/25	02/07/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2506035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/04/25	02/07/25	
Surrogate: Bromofluorobenzene	99.1 %	70-130		02/04/25	02/07/25	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		02/04/25	02/07/25	
Surrogate: Toluene-d8	104 %	70-130		02/04/25	02/07/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2506037	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/25	02/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/25	02/05/25	
Surrogate: n-Nonane	103 %	61-141		02/04/25	02/05/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2506033	
Chloride	ND	20.0	1	02/04/25	02/04/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/11/2025 7:52:29AM

PH04 0.5'

E502011-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2506035
Benzene	ND	0.0250	1	02/04/25	02/07/25	
Ethylbenzene	ND	0.0250	1	02/04/25	02/07/25	
Toluene	ND	0.0250	1	02/04/25	02/07/25	
o-Xylene	ND	0.0250	1	02/04/25	02/07/25	
p,m-Xylene	ND	0.0500	1	02/04/25	02/07/25	
Total Xylenes	ND	0.0250	1	02/04/25	02/07/25	
Surrogate: Bromofluorobenzene	99.7 %	70-130		02/04/25	02/07/25	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		02/04/25	02/07/25	
Surrogate: Toluene-d8	104 %	70-130		02/04/25	02/07/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2506035
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/04/25	02/07/25	
Surrogate: Bromofluorobenzene	99.7 %	70-130		02/04/25	02/07/25	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		02/04/25	02/07/25	
Surrogate: Toluene-d8	104 %	70-130		02/04/25	02/07/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2506037
Diesel Range Organics (C10-C28)	151	25.0	1	02/04/25	02/05/25	
Oil Range Organics (C28-C36)	106	50.0	1	02/04/25	02/05/25	
Surrogate: n-Nonane	103 %	61-141		02/04/25	02/05/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2506033
Chloride	564	20.0	1	02/04/25	02/04/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/11/2025 7:52:29AM

## PH04 2'

## E502011-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2506035
Benzene	ND	0.0250	1	02/04/25	02/07/25	
Ethylbenzene	ND	0.0250	1	02/04/25	02/07/25	
Toluene	ND	0.0250	1	02/04/25	02/07/25	
o-Xylene	ND	0.0250	1	02/04/25	02/07/25	
p,m-Xylene	ND	0.0500	1	02/04/25	02/07/25	
Total Xylenes	ND	0.0250	1	02/04/25	02/07/25	
Surrogate: Bromofluorobenzene	99.6 %	70-130		02/04/25	02/07/25	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		02/04/25	02/07/25	
Surrogate: Toluene-d8	103 %	70-130		02/04/25	02/07/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2506035
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/04/25	02/07/25	
Surrogate: Bromofluorobenzene	99.6 %	70-130		02/04/25	02/07/25	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		02/04/25	02/07/25	
Surrogate: Toluene-d8	103 %	70-130		02/04/25	02/07/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2506037
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/25	02/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/25	02/05/25	
Surrogate: n-Nonane	97.3 %	61-141		02/04/25	02/05/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2506033
Chloride	ND	20.0	1	02/04/25	02/04/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/11/2025 7:52:29AM

PH05 0.5'

E502011-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2506035
Benzene	ND	0.0250	1	02/04/25	02/07/25	
Ethylbenzene	ND	0.0250	1	02/04/25	02/07/25	
Toluene	ND	0.0250	1	02/04/25	02/07/25	
o-Xylene	ND	0.0250	1	02/04/25	02/07/25	
p,m-Xylene	ND	0.0500	1	02/04/25	02/07/25	
Total Xylenes	ND	0.0250	1	02/04/25	02/07/25	
Surrogate: Bromofluorobenzene	98.9 %	70-130		02/04/25	02/07/25	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		02/04/25	02/07/25	
Surrogate: Toluene-d8	104 %	70-130		02/04/25	02/07/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2506035
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/04/25	02/07/25	
Surrogate: Bromofluorobenzene	98.9 %	70-130		02/04/25	02/07/25	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		02/04/25	02/07/25	
Surrogate: Toluene-d8	104 %	70-130		02/04/25	02/07/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2506037
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/25	02/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/25	02/05/25	
Surrogate: n-Nonane	85.0 %	61-141		02/04/25	02/05/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2506033
Chloride	87.9	20.0	1	02/04/25	02/04/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/11/2025 7:52:29AM

## PH05 2'

## E502011-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2506035
Benzene	ND	0.0250	1	02/04/25	02/07/25	
Ethylbenzene	ND	0.0250	1	02/04/25	02/07/25	
Toluene	ND	0.0250	1	02/04/25	02/07/25	
o-Xylene	ND	0.0250	1	02/04/25	02/07/25	
p,m-Xylene	ND	0.0500	1	02/04/25	02/07/25	
Total Xylenes	ND	0.0250	1	02/04/25	02/07/25	
Surrogate: Bromofluorobenzene	98.4 %	70-130		02/04/25	02/07/25	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		02/04/25	02/07/25	
Surrogate: Toluene-d8	104 %	70-130		02/04/25	02/07/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2506035
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/04/25	02/07/25	
Surrogate: Bromofluorobenzene	98.4 %	70-130		02/04/25	02/07/25	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		02/04/25	02/07/25	
Surrogate: Toluene-d8	104 %	70-130		02/04/25	02/07/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2506037
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/25	02/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/25	02/05/25	
Surrogate: n-Nonane	100 %	61-141		02/04/25	02/05/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2506033
Chloride	ND	20.0	1	02/04/25	02/04/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/11/2025 7:52:29AM

PH06 0.5'

E502011-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2506035
Benzene	ND	0.0250	1	02/04/25	02/07/25	
Ethylbenzene	ND	0.0250	1	02/04/25	02/07/25	
Toluene	ND	0.0250	1	02/04/25	02/07/25	
o-Xylene	ND	0.0250	1	02/04/25	02/07/25	
p,m-Xylene	ND	0.0500	1	02/04/25	02/07/25	
Total Xylenes	ND	0.0250	1	02/04/25	02/07/25	
Surrogate: Bromofluorobenzene		101 %	70-130	02/04/25	02/07/25	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	02/04/25	02/07/25	
Surrogate: Toluene-d8		103 %	70-130	02/04/25	02/07/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2506035
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/04/25	02/07/25	
Surrogate: Bromofluorobenzene		101 %	70-130	02/04/25	02/07/25	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	02/04/25	02/07/25	
Surrogate: Toluene-d8		103 %	70-130	02/04/25	02/07/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2506037
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/25	02/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/25	02/05/25	
Surrogate: n-Nonane		103 %	61-141	02/04/25	02/05/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2506033
Chloride	2730	40.0	2	02/04/25	02/04/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/11/2025 7:52:29AM

## PH06 2'

## E502011-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2506035
Benzene	ND	0.0250	1	02/04/25	02/07/25	
Ethylbenzene	ND	0.0250	1	02/04/25	02/07/25	
Toluene	ND	0.0250	1	02/04/25	02/07/25	
o-Xylene	ND	0.0250	1	02/04/25	02/07/25	
p,m-Xylene	ND	0.0500	1	02/04/25	02/07/25	
Total Xylenes	ND	0.0250	1	02/04/25	02/07/25	
Surrogate: Bromofluorobenzene	98.6 %	70-130		02/04/25	02/07/25	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		02/04/25	02/07/25	
Surrogate: Toluene-d8	104 %	70-130		02/04/25	02/07/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2506035
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/04/25	02/07/25	
Surrogate: Bromofluorobenzene	98.6 %	70-130		02/04/25	02/07/25	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		02/04/25	02/07/25	
Surrogate: Toluene-d8	104 %	70-130		02/04/25	02/07/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2506037
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/25	02/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/25	02/05/25	
Surrogate: n-Nonane	101 %	61-141		02/04/25	02/05/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2506033
Chloride	351	20.0	1	02/04/25	02/04/25	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/11/2025 7:52:29AM

## Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2506035-BLK1)

Prepared: 02/04/25 Analyzed: 02/06/25

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		96.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			

## LCS (2506035-BS1)

Prepared: 02/04/25 Analyzed: 02/06/25

Benzene	2.19	0.0250	2.50		87.4	70-130			
Ethylbenzene	2.29	0.0250	2.50		91.7	70-130			
Toluene	2.38	0.0250	2.50		95.1	70-130			
o-Xylene	2.20	0.0250	2.50		88.2	70-130			
p,m-Xylene	4.63	0.0500	5.00		92.6	70-130			
Total Xylenes	6.84	0.0250	7.50		91.1	70-130			
Surrogate: Bromofluorobenzene	0.490		0.500		98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

## Matrix Spike (2506035-MS1)

Source: E502009-03

Prepared: 02/04/25 Analyzed: 02/06/25

Benzene	2.28	0.0250	2.50	ND	91.1	48-131			
Ethylbenzene	2.36	0.0250	2.50	ND	94.6	45-135			
Toluene	2.45	0.0250	2.50	ND	98.1	48-130			
o-Xylene	2.36	0.0250	2.50	ND	94.4	43-135			
p,m-Xylene	4.94	0.0500	5.00	ND	98.9	43-135			
Total Xylenes	7.30	0.0250	7.50	ND	97.4	43-135			
Surrogate: Bromofluorobenzene	0.500		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

## Matrix Spike Dup (2506035-MSD1)

Source: E502009-03

Prepared: 02/04/25 Analyzed: 02/06/25

Benzene	2.29	0.0250	2.50	ND	91.5	48-131	0.504	23	
Ethylbenzene	2.36	0.0250	2.50	ND	94.5	45-135	0.0846	27	
Toluene	2.46	0.0250	2.50	ND	98.3	48-130	0.183	24	
o-Xylene	2.31	0.0250	2.50	ND	92.6	43-135	1.99	27	
p,m-Xylene	4.83	0.0500	5.00	ND	96.6	43-135	2.29	27	
Total Xylenes	7.15	0.0250	7.50	ND	95.3	43-135	2.19	27	
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.534		0.500		107	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/11/2025 7:52:29AM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2506035-BLK1)

Prepared: 02/04/25 Analyzed: 02/06/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.484		0.500		96.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			

## LCS (2506035-BS2)

Prepared: 02/04/25 Analyzed: 02/06/25

Gasoline Range Organics (C6-C10)	53.9	20.0	50.0		108	70-130			
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.7	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			

## Matrix Spike (2506035-MS2)

Source: E502009-03

Prepared: 02/04/25 Analyzed: 02/06/25

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0	ND	105	70-130			
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			

## Matrix Spike Dup (2506035-MSD2)

Source: E502009-03

Prepared: 02/04/25 Analyzed: 02/06/25

Gasoline Range Organics (C6-C10)	50.7	20.0	50.0	ND	101	70-130	3.10	20	
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			





## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	<b>Reported:</b>
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/11/2025 7:52:29AM

## 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 (2506037-BLK1)

Prepared: 02/04/25 Analyzed: 02/05/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.4		50.0		96.8	61-141			

## LCS (2506037-BS1)

Prepared: 02/04/25 Analyzed: 02/05/25

Diesel Range Organics (C10-C28)	237	25.0	250		94.7	66-144			
Surrogate: n-Nonane	48.9		50.0		97.8	61-141			

## Matrix Spike (2506037-MS1)

Source: E502011-12

Prepared: 02/04/25 Analyzed: 02/05/25

Diesel Range Organics (C10-C28)	254	25.0	250	ND	102	56-156			
Surrogate: n-Nonane	50.2		50.0		100	61-141			

## Matrix Spike Dup (2506037-MSD1)

Source: E502011-12

Prepared: 02/04/25 Analyzed: 02/05/25

Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.8	56-156	2.76	20	
Surrogate: n-Nonane	51.1		50.0		102	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/11/2025 7:52:29AM

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 (2506033-BLK1)					Prepared: 02/04/25 Analyzed: 02/04/25				
Chloride	ND	20.0							
LCS (2506033-BS1)					Prepared: 02/04/25 Analyzed: 02/04/25				
Chloride	259	20.0	250		103	90-110			
Matrix Spike (2506033-MS1)					Source: E502009-04		Prepared: 02/04/25 Analyzed: 02/04/25		
Chloride	261	20.0	250	ND	104	80-120			
Matrix Spike Dup (2506033-MSD1)					Source: E502009-04		Prepared: 02/04/25 Analyzed: 02/04/25		
Chloride	261	20.0	250	ND	104	80-120	0.0487	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

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	02/11/25 07:52

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

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

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





## Project Information

## Chain of Custody

Page 1 of 2

Client: Devon Energy Production Co, LP				Bill To		Lab Use Only		TAT			EPA Program			
Project: Boundary Raider S Federal #231H				Attention: Jim Raley		Lab WO#		1D 2D 3D			CWA SDWA			
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		Job Number		Standard			5 day TAT			
Etech Project #: 21689				City, State, Zip: Carlsbad, NM, 88220		E502011 01058-0007								
Address: 13000 W County Rd 100				Phone: 575-885-7502		Analysis and Method					RCRA			
City, State, Zip: Odessa, TX, 79765				Email: jim.raley@dvn.com										
Phone: 432-305-6415				WO: 21483855							State			
Email: Devon-team@etechenv.com				Incident ID: nAPP2501341167							NM CO UT AZ TX			
Collected by: Haleigh Blume											x			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 3000	BGDOC NM	GDOC TX	Remarks
12:05	01.31.25	S	1	PH01	1	0.5'						X		Canceled duplicate sample named for samples PH05 0.5', PH05 2'. Per Client. 2/4/25 CM
12:10	01.31.25	S	1	PH01	2	2'						X		
12:30	01.31.25	S	1	PH02	3	0.5'						X		
12:35	01.31.25	S	1	PH02	4	2'						X		
12:50	01.31.25	S	1	PH03	5	0.5'						X		
12:55	01.31.25	S	1	PH03	6	2'						X		
13:15	01.31.25	S	1	PH04	7	0.5'						X		
13:20	01.31.25	S	1	PH04	8	2'						X		
13:40	01.31.25	S	1	PH05	9	0.5'						X		
13:45	01.31.25	S	1	PH05	10	2'						X		
Additional Instructions:														
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: HB														
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.														
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only		
Michelle Gonzales		2-3-25		11:40		Michelle Gonzales		2-3-25		11:40		Received on ice: (Y) / N		
Michelle Gonzales		2-3-25		15:45		Richard Gonzales		2-3-25		13:45		T1 T2 T3		
Richard Gonzales		2-3-25		22:45		Cristina Man		2-4-25		10:30		AVG Temp °C 4		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other														
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA														
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.														



envirotech







## Project Information

## Chain of Custody

Client: Devon Energy Production Co, LP					Bill To		Lab Use Only				TAT				EPA Program									
Project: Boundary Raider 5 Federal #231H					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA								
Project Manager: Anna Byers					Address: 5315 Buena Vista Dr.		E502011		01058-0007					5 day TAT										
Etech Project #: 21689					City, State, Zip: Carlsbad, NM, 88220																			
Address: 13000 W County Rd 100					Phone: 575-885-7502				Analysis and Method							RCRA								
City, State, Zip: Odessa, TX, 79765					Email: jim.raley@dvn.com																			
Phone: 432-305-6415					WO: 21483855																			
Email: Devon-team@etechenv.com					Incident ID: nAPP2501341167																			
Collected by: Haleigh Blume																								
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	NM	CO	UT	AZ	TX	Remarks					
12:05	01.31.25	S	1	PH01	1	0.5'						X												
12:10	01.31.25	S	1	PH01	2	2'						X												
12:30	01.31.25	S	1	PH02	3	0.5'						X												
12:35	01.31.25	S	1	PH02	4	2'						X												
12:50	01.31.25	S	1	PH03	5	0.5'						X												
12:55	01.31.25	S	1	PH03	6	2'						X												
13:15	01.31.25	S	1	PH04	7	0.5'						X												
13:20	01.31.25	S	1	PH04	8	2'						X												
13:40	01.31.25	S	1	PH05	9	0.5'						X												
13:45	01.31.25	S	1	PH05	10	2'						X												
Additional Instructions:																								
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.														
Relinquished by: (Signature) <i>Haleigh Blume</i>					Date: 2-3-25 Time: 11:40					Received by: (Signature) <i>Michelle Gonzales</i>					Date: 2-3-25 Time: 11:40					Lab Use Only				
Relinquished by: (Signature) <i>Michelle Gonzales</i>					Date: 2-3-25 Time: 1545					Received by: (Signature) <i>Richard Gonzalez</i>					Date: 2-3-25 Time: 1545					Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N				
Relinquished by: (Signature) <i>Richard Gonzalez</i>					Date: 2-3-25 Time: 2245					Received by: (Signature) <i>Cristina Mann</i>					Date: 2-4-25 Time: 10:30					T1 T2 T3				
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										AVG Temp °C 4				
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																								



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## Envirotech Analytical Laboratory

Printed: 2/4/2025 10:03:21AM

## 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:	Devon Energy - Carlsbad	Date Received:	02/04/25 06:30	Work Order ID:	E502011
Phone:	(575) 748-0176	Date Logged In:	02/03/25 15:54	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	02/10/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Cancelled duplicate sample names for samples PH05 0.5 & PH05 2 on COC per client.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

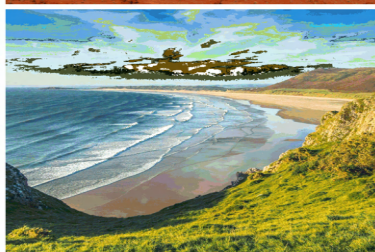
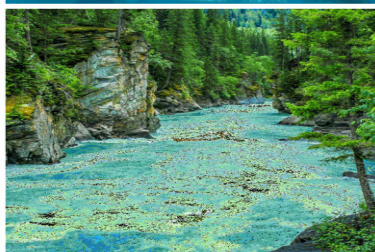
Date



envirotech Inc.



Report to:  
Anna Byers



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: Boundary Raider 5 Federal #231H

Work Order: E502009

Job Number: 01058-0007

Received: 2/4/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
2/10/25

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: 2/10/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: Boundary Raider 5 Federal #231H  
Workorder: E502009  
Date Received: 2/4/2025 6:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/4/2025 6:30:00AM, under the Project Name: Boundary Raider 5 Federal #231H.

The analytical test results summarized in this report with the Project Name: Boundary Raider 5 Federal #231H 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](mailto:whinchman@envirotech-inc.com)

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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)



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Sample Summary

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	02/10/25 16:41

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 4'	E502009-01A	Soil	01/31/25	02/04/25	Glass Jar, 2 oz.
PH02 4'	E502009-02A	Soil	01/31/25	02/04/25	Glass Jar, 2 oz.
PH03 4'	E502009-03A	Soil	01/31/25	02/04/25	Glass Jar, 2 oz.
PH04 4'	E502009-04A	Soil	01/31/25	02/04/25	Glass Jar, 2 oz.
PH05 4'	E502009-05A	Soil	01/31/25	02/04/25	Glass Jar, 2 oz.
PH06 4'	E502009-06A	Soil	01/31/25	02/04/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/10/2025 4:41:16PM

**PH01 4'**

**E502009-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2506035
Benzene	ND	0.0250	1	02/04/25	02/06/25	
Ethylbenzene	ND	0.0250	1	02/04/25	02/06/25	
Toluene	ND	0.0250	1	02/04/25	02/06/25	
o-Xylene	ND	0.0250	1	02/04/25	02/06/25	
p,m-Xylene	ND	0.0500	1	02/04/25	02/06/25	
Total Xylenes	ND	0.0250	1	02/04/25	02/06/25	
<i>Surrogate: Bromofluorobenzene</i>		91.6 %	70-130	02/04/25	02/06/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.4 %	70-130	02/04/25	02/06/25	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	02/04/25	02/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2506035
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/04/25	02/06/25	
<i>Surrogate: Bromofluorobenzene</i>		91.6 %	70-130	02/04/25	02/06/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.4 %	70-130	02/04/25	02/06/25	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	02/04/25	02/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2506029
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/25	02/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/25	02/05/25	
<i>Surrogate: n-Nonane</i>		93.6 %	61-141	02/04/25	02/05/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2506033
Chloride	315	20.0	1	02/04/25	02/04/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/10/2025 4:41:16PM

## PH02 4'

## E502009-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2506035
Benzene	ND	0.0250	1	02/04/25	02/06/25	
Ethylbenzene	ND	0.0250	1	02/04/25	02/06/25	
Toluene	ND	0.0250	1	02/04/25	02/06/25	
o-Xylene	ND	0.0250	1	02/04/25	02/06/25	
p,m-Xylene	ND	0.0500	1	02/04/25	02/06/25	
Total Xylenes	ND	0.0250	1	02/04/25	02/06/25	
Surrogate: Bromofluorobenzene	90.9 %	70-130		02/04/25	02/06/25	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		02/04/25	02/06/25	
Surrogate: Toluene-d8	99.0 %	70-130		02/04/25	02/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2506035
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/04/25	02/06/25	
Surrogate: Bromofluorobenzene	90.9 %	70-130		02/04/25	02/06/25	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		02/04/25	02/06/25	
Surrogate: Toluene-d8	99.0 %	70-130		02/04/25	02/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2506029
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/25	02/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/25	02/05/25	
Surrogate: n-Nonane	98.9 %	61-141		02/04/25	02/05/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2506033
Chloride	ND	20.0	1	02/04/25	02/04/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/10/2025 4:41:16PM

## PH03 4'

## E502009-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2506035
Benzene	ND	0.0250	1	02/04/25	02/06/25	
Ethylbenzene	ND	0.0250	1	02/04/25	02/06/25	
Toluene	ND	0.0250	1	02/04/25	02/06/25	
o-Xylene	ND	0.0250	1	02/04/25	02/06/25	
p,m-Xylene	ND	0.0500	1	02/04/25	02/06/25	
Total Xylenes	ND	0.0250	1	02/04/25	02/06/25	
Surrogate: Bromofluorobenzene	94.6 %	70-130		02/04/25	02/06/25	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		02/04/25	02/06/25	
Surrogate: Toluene-d8	99.6 %	70-130		02/04/25	02/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2506035
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/04/25	02/06/25	
Surrogate: Bromofluorobenzene	94.6 %	70-130		02/04/25	02/06/25	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		02/04/25	02/06/25	
Surrogate: Toluene-d8	99.6 %	70-130		02/04/25	02/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2506029
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/25	02/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/25	02/05/25	
Surrogate: n-Nonane	88.9 %	61-141		02/04/25	02/05/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2506033
Chloride	ND	20.0	1	02/04/25	02/04/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/10/2025 4:41:16PM

## PH04 4'

## E502009-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2506035
Benzene	ND	0.0250	1	02/04/25	02/06/25	
Ethylbenzene	ND	0.0250	1	02/04/25	02/06/25	
Toluene	ND	0.0250	1	02/04/25	02/06/25	
o-Xylene	ND	0.0250	1	02/04/25	02/06/25	
p,m-Xylene	ND	0.0500	1	02/04/25	02/06/25	
Total Xylenes	ND	0.0250	1	02/04/25	02/06/25	
Surrogate: Bromofluorobenzene	93.3 %	70-130		02/04/25	02/06/25	
Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130		02/04/25	02/06/25	
Surrogate: Toluene-d8	99.9 %	70-130		02/04/25	02/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2506035
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/04/25	02/06/25	
Surrogate: Bromofluorobenzene	93.3 %	70-130		02/04/25	02/06/25	
Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130		02/04/25	02/06/25	
Surrogate: Toluene-d8	99.9 %	70-130		02/04/25	02/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2506029
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/25	02/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/25	02/05/25	
Surrogate: n-Nonane	91.6 %	61-141		02/04/25	02/05/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2506033
Chloride	ND	20.0	1	02/04/25	02/04/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/10/2025 4:41:16PM

## PH05 4'

## E502009-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2506035
Benzene	ND	0.0250	1	02/04/25	02/06/25	
Ethylbenzene	ND	0.0250	1	02/04/25	02/06/25	
Toluene	ND	0.0250	1	02/04/25	02/06/25	
o-Xylene	ND	0.0250	1	02/04/25	02/06/25	
p,m-Xylene	ND	0.0500	1	02/04/25	02/06/25	
Total Xylenes	ND	0.0250	1	02/04/25	02/06/25	
Surrogate: Bromofluorobenzene		101 %	70-130	02/04/25	02/06/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	02/04/25	02/06/25	
Surrogate: Toluene-d8		102 %	70-130	02/04/25	02/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2506035
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/04/25	02/06/25	
Surrogate: Bromofluorobenzene		101 %	70-130	02/04/25	02/06/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	02/04/25	02/06/25	
Surrogate: Toluene-d8		102 %	70-130	02/04/25	02/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2506029
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/25	02/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/25	02/05/25	
Surrogate: n-Nonane		93.2 %	61-141	02/04/25	02/05/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2506033
Chloride	ND	20.0	1	02/04/25	02/04/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/10/2025 4:41:16PM

## PH06 4'

## E502009-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2506035
Benzene	ND	0.0250	1	02/04/25	02/06/25	
Ethylbenzene	ND	0.0250	1	02/04/25	02/06/25	
Toluene	ND	0.0250	1	02/04/25	02/06/25	
o-Xylene	ND	0.0250	1	02/04/25	02/06/25	
p,m-Xylene	ND	0.0500	1	02/04/25	02/06/25	
Total Xylenes	ND	0.0250	1	02/04/25	02/06/25	
Surrogate: Bromofluorobenzene		101 %	70-130	02/04/25	02/06/25	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	02/04/25	02/06/25	
Surrogate: Toluene-d8		103 %	70-130	02/04/25	02/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2506035
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/04/25	02/06/25	
Surrogate: Bromofluorobenzene		101 %	70-130	02/04/25	02/06/25	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	02/04/25	02/06/25	
Surrogate: Toluene-d8		103 %	70-130	02/04/25	02/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2506029
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/25	02/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/25	02/05/25	
Surrogate: n-Nonane		93.4 %	61-141	02/04/25	02/05/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2506033
Chloride	743	20.0	1	02/04/25	02/04/25	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/10/2025 4:41:16PM

## Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

## Blank (2506035-BLK1)

Prepared: 02/04/25 Analyzed: 02/06/25

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		96.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			

## LCS (2506035-BS1)

Prepared: 02/04/25 Analyzed: 02/06/25

Benzene	2.19	0.0250	2.50		87.4	70-130			
Ethylbenzene	2.29	0.0250	2.50		91.7	70-130			
Toluene	2.38	0.0250	2.50		95.1	70-130			
o-Xylene	2.20	0.0250	2.50		88.2	70-130			
p,m-Xylene	4.63	0.0500	5.00		92.6	70-130			
Total Xylenes	6.84	0.0250	7.50		91.1	70-130			
Surrogate: Bromofluorobenzene	0.490		0.500		98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

## Matrix Spike (2506035-MS1)

Source: E502009-03

Prepared: 02/04/25 Analyzed: 02/06/25

Benzene	2.28	0.0250	2.50	ND	91.1	48-131			
Ethylbenzene	2.36	0.0250	2.50	ND	94.6	45-135			
Toluene	2.45	0.0250	2.50	ND	98.1	48-130			
o-Xylene	2.36	0.0250	2.50	ND	94.4	43-135			
p,m-Xylene	4.94	0.0500	5.00	ND	98.9	43-135			
Total Xylenes	7.30	0.0250	7.50	ND	97.4	43-135			
Surrogate: Bromofluorobenzene	0.500		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

## Matrix Spike Dup (2506035-MSD1)

Source: E502009-03

Prepared: 02/04/25 Analyzed: 02/06/25

Benzene	2.29	0.0250	2.50	ND	91.5	48-131	0.504	23	
Ethylbenzene	2.36	0.0250	2.50	ND	94.5	45-135	0.0846	27	
Toluene	2.46	0.0250	2.50	ND	98.3	48-130	0.183	24	
o-Xylene	2.31	0.0250	2.50	ND	92.6	43-135	1.99	27	
p,m-Xylene	4.83	0.0500	5.00	ND	96.6	43-135	2.29	27	
Total Xylenes	7.15	0.0250	7.50	ND	95.3	43-135	2.19	27	
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.534		0.500		107	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/10/2025 4:41:16PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2506035-BLK1)

Prepared: 02/04/25 Analyzed: 02/06/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.484		0.500		96.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			

## LCS (2506035-BS2)

Prepared: 02/04/25 Analyzed: 02/06/25

Gasoline Range Organics (C6-C10)	53.9	20.0	50.0		108	70-130			
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.7	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			

## Matrix Spike (2506035-MS2)

Source: E502009-03

Prepared: 02/04/25 Analyzed: 02/06/25

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0	ND	105	70-130			
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			

## Matrix Spike Dup (2506035-MSD2)

Source: E502009-03

Prepared: 02/04/25 Analyzed: 02/06/25

Gasoline Range Organics (C6-C10)	50.7	20.0	50.0	ND	101	70-130	3.10	20	
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			





QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/10/2025 4:41:16PM

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 (2506029-BLK1)					Prepared: 02/04/25 Analyzed: 02/05/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.3		50.0		96.5	61-141			

LCS (2506029-BS1)					Prepared: 02/04/25 Analyzed: 02/05/25				
Diesel Range Organics (C10-C28)	244	25.0	250		97.5	66-144			
Surrogate: n-Nonane	48.5		50.0		97.0	61-141			

Matrix Spike (2506029-MS1)					Source: E502006-03		Prepared: 02/04/25 Analyzed: 02/05/25		
Diesel Range Organics (C10-C28)	246	25.0	250	ND	98.2	56-156			
Surrogate: n-Nonane	49.9		50.0		99.8	61-141			

Matrix Spike Dup (2506029-MSD1)					Source: E502006-03		Prepared: 02/04/25 Analyzed: 02/05/25		
Diesel Range Organics (C10-C28)	256	25.0	250	ND	102	56-156	3.99	20	
Surrogate: n-Nonane	49.8		50.0		99.5	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/10/2025 4:41:16PM

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 (2506033-BLK1)					Prepared: 02/04/25 Analyzed: 02/04/25				
Chloride	ND	20.0							
LCS (2506033-BS1)					Prepared: 02/04/25 Analyzed: 02/04/25				
Chloride	259	20.0	250		103	90-110			
Matrix Spike (2506033-MS1)					Source: E502009-04		Prepared: 02/04/25 Analyzed: 02/04/25		
Chloride	261	20.0	250	ND	104	80-120			
Matrix Spike Dup (2506033-MSD1)					Source: E502009-04		Prepared: 02/04/25 Analyzed: 02/04/25		
Chloride	261	20.0	250	ND	104	80-120	0.0487	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

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	02/10/25 16:41

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

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

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



## Project Information

## Chain of Custody

Client: Devon Energy Production Co, LP					Bill To		Lab Use Only		TAT				EPA Program						
Project: Boundary Raider 5 Federal #231H					Attention: Jim Raley		Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Anna Byers					Address: 5315 Buena Vista Dr.		E502009	01058.0007				5 day TAT							
Etech Project #: 21689					City, State, Zip: Carlsbad, NM, 88220														
Address: 13000 W County Rd 100					Phone: 575-885-7502		Analysis and Method									RCRA			
City, State, Zip: Odessa, TX, 79765					Email: jim.raley@devn.com		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 432-305-6415					WO: 21483855										NM	CO	UT	AZ	TX
Email: Devon-team@etechenv.com					Incident ID: nAPP2501341167														
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number										Remarks				
12:15	01.31.25	S	1	PH01	1	4'							X						
12:40	01.31.25	S	1	PH02	2	4'							X						
13:20	01.31.25	S	1	PH03	3	4'							X						
13:25	01.31.25	S	1	PH04	4	4'							X						
14:10	01.31.25	S	1	PH05	5	4'							X						
14:30	01.31.25	S	1	PH06	6	4'							X						

## Additional Instructions:

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

Sampled by: HB

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<i>Anna Byers</i>	2-3-25	11:40	<i>Michelle Gonzales</i>	2-3-25	11:40	Received on ice: Y / N
<i>Michelle Gonzales</i>	2-3-25	15:45	<i>Richard Gonzales</i>	2-3-25	15:45	T1 _____ T2 _____ T3 _____
<i>Richard Gonzales</i>	2-3-25	22:45	<i>Caitlin Mann</i>	2-4-25	0:30	AVG Temp °C 4

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

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

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



envirotech

## Envirotech Analytical Laboratory

Printed: 2/4/2025 8:15:37AM

## 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:	Devon Energy - Carlsbad	Date Received:	02/04/25 06:30	Work Order ID:	E502009
Phone:	(575) 748-0176	Date Logged In:	02/03/25 15:38	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	02/10/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
 

Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



Report to:  
Anna Byers



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: Boundary Raider 5 Federal #231H

Work Order: E502012

Job Number: 01058-0007

Received: 2/4/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
2/10/25

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: 2/10/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: Boundary Raider 5 Federal #231H  
Workorder: E502012  
Date Received: 2/4/2025 6:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/4/2025 6:30:00AM, under the Project Name: Boundary Raider 5 Federal #231H.

The analytical test results summarized in this report with the Project Name: Boundary Raider 5 Federal #231H 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
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[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	02/10/25 11:39

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH 01 6'	E502012-01A	Soil	01/31/25	02/04/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/10/2025 11:39:18AM

PH 01 6'

E502012-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2506031	
Benzene	ND	0.0250	1	02/04/25	02/05/25	
Ethylbenzene	ND	0.0250	1	02/04/25	02/05/25	
Toluene	ND	0.0250	1	02/04/25	02/05/25	
o-Xylene	ND	0.0250	1	02/04/25	02/05/25	
p,m-Xylene	ND	0.0500	1	02/04/25	02/05/25	
Total Xylenes	ND	0.0250	1	02/04/25	02/05/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.4 %	70-130	02/04/25	02/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2506031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/04/25	02/05/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.5 %	70-130	02/04/25	02/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2506037	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/25	02/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/25	02/05/25	
<i>Surrogate: n-Nonane</i>		107 %	61-141	02/04/25	02/05/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2506034	
Chloride	85.5	20.0	1	02/04/25	02/04/25	





## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/10/2025 11:39:18AM

## 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 (2506031-BLK1)

Prepared: 02/04/25 Analyzed: 02/05/25

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	7.37		8.00		92.1	70-130			

## LCS (2506031-BS1)

Prepared: 02/04/25 Analyzed: 02/07/25

Benzene	5.20	0.0250	5.00		104	70-130			
Ethylbenzene	5.14	0.0250	5.00		103	70-130			
Toluene	5.21	0.0250	5.00		104	70-130			
o-Xylene	5.11	0.0250	5.00		102	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.69		8.00		83.7	70-130			

## Matrix Spike (2506031-MS1)

Source: E502013-03

Prepared: 02/04/25 Analyzed: 02/07/25

Benzene	5.31	0.0250	5.00	ND	106	54-133			
Ethylbenzene	5.24	0.0250	5.00	ND	105	61-133			
Toluene	5.31	0.0250	5.00	ND	106	61-130			
o-Xylene	5.20	0.0250	5.00	ND	104	63-131			
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131			
Total Xylenes	15.9	0.0250	15.0	ND	106	63-131			
Surrogate: 4-Bromochlorobenzene-PID	6.61		8.00		82.6	70-130			

## Matrix Spike Dup (2506031-MSD1)

Source: E502013-03

Prepared: 02/04/25 Analyzed: 02/07/25

Benzene	5.40	0.0250	5.00	ND	108	54-133	1.69	20	
Ethylbenzene	5.34	0.0250	5.00	ND	107	61-133	2.00	20	
Toluene	5.40	0.0250	5.00	ND	108	61-130	1.78	20	
o-Xylene	5.31	0.0250	5.00	ND	106	63-131	1.94	20	
p,m-Xylene	10.9	0.0500	10.0	ND	109	63-131	1.88	20	
Total Xylenes	16.2	0.0250	15.0	ND	108	63-131	1.90	20	
Surrogate: 4-Bromochlorobenzene-PID	6.77		8.00		84.6	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/10/2025 11:39:18AM

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 (2506031-BLK1) Prepared: 02/04/25 Analyzed: 02/05/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.93		8.00		86.6	70-130			

LCS (2506031-BS2) Prepared: 02/04/25 Analyzed: 02/05/25

Gasoline Range Organics (C6-C10)	40.2	20.0	50.0		80.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.03		8.00		87.8	70-130			

Matrix Spike (2506031-MS2) Source: E502013-03 Prepared: 02/04/25 Analyzed: 02/05/25

Gasoline Range Organics (C6-C10)	43.0	20.0	50.0	ND	85.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.92		8.00		86.5	70-130			

Matrix Spike Dup (2506031-MSD2) Source: E502013-03 Prepared: 02/04/25 Analyzed: 02/05/25

Gasoline Range Organics (C6-C10)	42.5	20.0	50.0	ND	85.0	70-130	1.03	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.02		8.00		87.8	70-130			



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/10/2025 11:39:18AM

## 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 (2506037-BLK1)

Prepared: 02/04/25 Analyzed: 02/05/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.4		50.0		96.8	61-141			

## LCS (2506037-BS1)

Prepared: 02/04/25 Analyzed: 02/05/25

Diesel Range Organics (C10-C28)	237	25.0	250		94.7	66-144			
Surrogate: n-Nonane	48.9		50.0		97.8	61-141			

## Matrix Spike (2506037-MS1)

Source: E502011-12

Prepared: 02/04/25 Analyzed: 02/05/25

Diesel Range Organics (C10-C28)	254	25.0	250	ND	102	56-156			
Surrogate: n-Nonane	50.2		50.0		100	61-141			

## Matrix Spike Dup (2506037-MSD1)

Source: E502011-12

Prepared: 02/04/25 Analyzed: 02/05/25

Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.8	56-156	2.76	20	
Surrogate: n-Nonane	51.1		50.0		102	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/10/2025 11:39:18AM

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 (2506034-BLK1)					Prepared: 02/04/25 Analyzed: 02/04/25				
Chloride	ND	20.0							
LCS (2506034-BS1)					Prepared: 02/04/25 Analyzed: 02/04/25				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2506034-MS1)					Source: E502010-03		Prepared: 02/04/25 Analyzed: 02/04/25		
Chloride	492	20.0	250	217	110	80-120			
Matrix Spike Dup (2506034-MSD1)					Source: E502010-03		Prepared: 02/04/25 Analyzed: 02/04/25		
Chloride	462	20.0	250	217	97.9	80-120	6.29	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

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	02/10/25 11:39

- 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: 2/4/2025 8:22:13AM

## 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:	Devon Energy - Carlsbad	Date Received:	02/04/25 06:30	Work Order ID:	E502012
Phone:	(575) 748-0176	Date Logged In:	02/03/25 16:21	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	02/10/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:  
Anna Byers



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: Boundary Raider 5 Federal #231H

Work Order: E502013

Job Number: 01058-0007

Received: 2/4/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
2/10/25

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: 2/10/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: Boundary Raider 5 Federal #231H  
Workorder: E502013  
Date Received: 2/4/2025 6:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/4/2025 6:30:00AM, under the Project Name: Boundary Raider 5 Federal #231H.

The analytical test results summarized in this report with the Project Name: Boundary Raider 5 Federal #231H 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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Sample Summary

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	02/10/25 11:40

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH07 0.5'	E502013-01A	Soil	01/31/25	02/04/25	Glass Jar, 2 oz.
PH08 0.5'	E502013-02A	Soil	01/31/25	02/04/25	Glass Jar, 2 oz.
PH09 0.5'	E502013-03A	Soil	01/31/25	02/04/25	Glass Jar, 2 oz.
PH10 0.5'	E502013-04A	Soil	01/31/25	02/04/25	Glass Jar, 2 oz.
PH11 0.5'	E502013-05A	Soil	01/31/25	02/04/25	Glass Jar, 2 oz.
PH12 0.5'	E502013-06A	Soil	01/31/25	02/04/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/10/2025 11:40:33AM

PH07 0.5'

E502013-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2506031	
Benzene	ND	0.0250	1	02/04/25	02/06/25	
Ethylbenzene	ND	0.0250	1	02/04/25	02/06/25	
Toluene	ND	0.0250	1	02/04/25	02/06/25	
o-Xylene	ND	0.0250	1	02/04/25	02/06/25	
p,m-Xylene	ND	0.0500	1	02/04/25	02/06/25	
Total Xylenes	ND	0.0250	1	02/04/25	02/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.6 %	70-130	02/04/25	02/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2506031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/04/25	02/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.3 %	70-130	02/04/25	02/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2506037	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/25	02/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/25	02/05/25	
<i>Surrogate: n-Nonane</i>		105 %	61-141	02/04/25	02/05/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2506034	
Chloride	230	20.0	1	02/04/25	02/04/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/10/2025 11:40:33AM

PH08 0.5'

E502013-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2506031	
Benzene	ND	0.0250	1	02/04/25	02/07/25	
Ethylbenzene	ND	0.0250	1	02/04/25	02/07/25	
Toluene	ND	0.0250	1	02/04/25	02/07/25	
o-Xylene	ND	0.0250	1	02/04/25	02/07/25	
p,m-Xylene	ND	0.0500	1	02/04/25	02/07/25	
Total Xylenes	ND	0.0250	1	02/04/25	02/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.1 %	70-130		02/04/25	02/07/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2506031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/04/25	02/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.1 %	70-130		02/04/25	02/07/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2506037	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/25	02/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/25	02/05/25	
<i>Surrogate: n-Nonane</i>						
	103 %	61-141		02/04/25	02/05/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2506034	
Chloride	232	20.0	1	02/04/25	02/04/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/10/2025 11:40:33AM

PH09 0.5'

E502013-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2506031	
Benzene	ND	0.0250	1	02/04/25	02/05/25	
Ethylbenzene	ND	0.0250	1	02/04/25	02/05/25	
Toluene	ND	0.0250	1	02/04/25	02/05/25	
o-Xylene	ND	0.0250	1	02/04/25	02/05/25	
p,m-Xylene	ND	0.0500	1	02/04/25	02/05/25	
Total Xylenes	ND	0.0250	1	02/04/25	02/05/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.5 %	70-130		02/04/25	02/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2506031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/04/25	02/05/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.3 %	70-130		02/04/25	02/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2506037	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/25	02/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/25	02/05/25	
<i>Surrogate: n-Nonane</i>	104 %	61-141		02/04/25	02/05/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2506034	
Chloride	42.0	20.0	1	02/04/25	02/04/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/10/2025 11:40:33AM

PH10 0.5'

E502013-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2506031	
Benzene	ND	0.0250	1	02/04/25	02/07/25	
Ethylbenzene	ND	0.0250	1	02/04/25	02/07/25	
Toluene	ND	0.0250	1	02/04/25	02/07/25	
o-Xylene	ND	0.0250	1	02/04/25	02/07/25	
p,m-Xylene	ND	0.0500	1	02/04/25	02/07/25	
Total Xylenes	ND	0.0250	1	02/04/25	02/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.0 %	70-130		02/04/25	02/07/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2506031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/04/25	02/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.9 %	70-130		02/04/25	02/07/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2506037	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/25	02/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/25	02/05/25	
<i>Surrogate: n-Nonane</i>						
	105 %	61-141		02/04/25	02/05/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2506034	
Chloride	41.6	20.0	1	02/04/25	02/04/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/10/2025 11:40:33AM

PH11 0.5'

E502013-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2506031	
Benzene	ND	0.0250	1	02/04/25	02/07/25	
Ethylbenzene	ND	0.0250	1	02/04/25	02/07/25	
Toluene	ND	0.0250	1	02/04/25	02/07/25	
o-Xylene	ND	0.0250	1	02/04/25	02/07/25	
p,m-Xylene	ND	0.0500	1	02/04/25	02/07/25	
Total Xylenes	ND	0.0250	1	02/04/25	02/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	88.4 %	70-130		02/04/25	02/07/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2506031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/04/25	02/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	85.9 %	70-130		02/04/25	02/07/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2506037	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/25	02/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/25	02/06/25	
<i>Surrogate: n-Nonane</i>	103 %	61-141		02/04/25	02/06/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2506034	
Chloride	227	20.0	1	02/04/25	02/04/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/10/2025 11:40:33AM

PH12 0.5'

E502013-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2506031	
Benzene	ND	0.0250	1	02/04/25	02/07/25	
Ethylbenzene	ND	0.0250	1	02/04/25	02/07/25	
Toluene	ND	0.0250	1	02/04/25	02/07/25	
o-Xylene	ND	0.0250	1	02/04/25	02/07/25	
p,m-Xylene	ND	0.0500	1	02/04/25	02/07/25	
Total Xylenes	ND	0.0250	1	02/04/25	02/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	88.4 %	70-130		02/04/25	02/07/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2506031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/04/25	02/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	85.5 %	70-130		02/04/25	02/07/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2506037	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/25	02/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/25	02/06/25	
<i>Surrogate: n-Nonane</i>	103 %	61-141		02/04/25	02/06/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2506034	
Chloride	40.7	20.0	1	02/04/25	02/04/25	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/10/2025 11:40:33AM

Volatile Organics by EPA 8021B

Analyst: BA

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

Blank (2506031-BLK1) Prepared: 02/04/25 Analyzed: 02/05/25

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	7.37		8.00		92.1	70-130			

LCS (2506031-BS1) Prepared: 02/04/25 Analyzed: 02/07/25

Benzene	5.20	0.0250	5.00		104	70-130			
Ethylbenzene	5.14	0.0250	5.00		103	70-130			
Toluene	5.21	0.0250	5.00		104	70-130			
o-Xylene	5.11	0.0250	5.00		102	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.69		8.00		83.7	70-130			

Matrix Spike (2506031-MS1) Source: E502013-03 Prepared: 02/04/25 Analyzed: 02/07/25

Benzene	5.31	0.0250	5.00	ND	106	54-133			
Ethylbenzene	5.24	0.0250	5.00	ND	105	61-133			
Toluene	5.31	0.0250	5.00	ND	106	61-130			
o-Xylene	5.20	0.0250	5.00	ND	104	63-131			
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131			
Total Xylenes	15.9	0.0250	15.0	ND	106	63-131			
Surrogate: 4-Bromochlorobenzene-PID	6.61		8.00		82.6	70-130			

Matrix Spike Dup (2506031-MSD1) Source: E502013-03 Prepared: 02/04/25 Analyzed: 02/07/25

Benzene	5.40	0.0250	5.00	ND	108	54-133	1.69	20	
Ethylbenzene	5.34	0.0250	5.00	ND	107	61-133	2.00	20	
Toluene	5.40	0.0250	5.00	ND	108	61-130	1.78	20	
o-Xylene	5.31	0.0250	5.00	ND	106	63-131	1.94	20	
p,m-Xylene	10.9	0.0500	10.0	ND	109	63-131	1.88	20	
Total Xylenes	16.2	0.0250	15.0	ND	108	63-131	1.90	20	
Surrogate: 4-Bromochlorobenzene-PID	6.77		8.00		84.6	70-130			



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/10/2025 11:40:33AM

## 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 (2506031-BLK1)

Prepared: 02/04/25 Analyzed: 02/05/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.93		8.00		86.6	70-130			

## LCS (2506031-BS2)

Prepared: 02/04/25 Analyzed: 02/05/25

Gasoline Range Organics (C6-C10)	40.2	20.0	50.0		80.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.03		8.00		87.8	70-130			

## Matrix Spike (2506031-MS2)

Source: E502013-03

Prepared: 02/04/25 Analyzed: 02/05/25

Gasoline Range Organics (C6-C10)	43.0	20.0	50.0	ND	85.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.92		8.00		86.5	70-130			

## Matrix Spike Dup (2506031-MSD2)

Source: E502013-03

Prepared: 02/04/25 Analyzed: 02/05/25

Gasoline Range Organics (C6-C10)	42.5	20.0	50.0	ND	85.0	70-130	1.03	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.02		8.00		87.8	70-130			



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	<b>Reported:</b>
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/10/2025 11:40:33AM

## 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 (2506037-BLK1)

Prepared: 02/04/25 Analyzed: 02/05/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	48.4		50.0		96.8	61-141			

## LCS (2506037-BS1)

Prepared: 02/04/25 Analyzed: 02/05/25

Diesel Range Organics (C10-C28)	237	25.0	250		94.7	66-144			
Surrogate: <i>n</i> -Nonane	48.9		50.0		97.8	61-141			

## Matrix Spike (2506037-MS1)

Source: E502011-12

Prepared: 02/04/25 Analyzed: 02/05/25

Diesel Range Organics (C10-C28)	254	25.0	250	ND	102	56-156			
Surrogate: <i>n</i> -Nonane	50.2		50.0		100	61-141			

## Matrix Spike Dup (2506037-MSD1)

Source: E502011-12

Prepared: 02/04/25 Analyzed: 02/05/25

Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.8	56-156	2.76	20	
Surrogate: <i>n</i> -Nonane	51.1		50.0		102	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/10/2025 11:40:33AM

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 (2506034-BLK1)					Prepared: 02/04/25 Analyzed: 02/04/25				
Chloride	ND	20.0							
LCS (2506034-BS1)					Prepared: 02/04/25 Analyzed: 02/04/25				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2506034-MS1)					Source: E502010-03		Prepared: 02/04/25 Analyzed: 02/04/25		
Chloride	492	20.0	250	217	110	80-120			
Matrix Spike Dup (2506034-MSD1)					Source: E502010-03		Prepared: 02/04/25 Analyzed: 02/04/25		
Chloride	462	20.0	250	217	97.9	80-120	6.29	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

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	02/10/25 11:40

- 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.



Client: Devon Energy Production Co, LP	Bill To	Lab Use Only	TAT	EPA Program
Project: Boundary Raider 5 Federal #231H	Attention: Jim Raley	Lab WO#	1D 2D 3D Standard	CWA SDWA
Project Manager: Anna Byers	Address: 5315 Buena Vista Dr.	Job Number	5 day TAT	
Etech Project #: 21689	City, State, Zip: Carlsbad, NM, 88220			
Address: 13000 W County Rd 100	Phone: 575-885-7502	Analysis and Method		RCRA
City, State, Zip: Odessa, TX, 79765	Email: jim.raley@dv.com			
Phone: 432-305-6415	WO: 21483855			State
Email: Devon-team@etechenv.com	Incident ID: nAPP2501341167			NM CO UT AZ TX

Collected by: Haleigh Blume

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
15:15	01.31.25	S	1	PH07	1	0.5'						X		
15:20	01.31.25	S	1	PH08	2	0.5'						X		
15:25	01.31.25	S	1	PH09	3	0.5'						X		
15:30	01.31.25	S	1	PH10	4	0.5'						X		
15:35	01.31.25	S	1	PH11	5	0.5'						X		
15:40	01.31.25	S	1	PH12	6	0.5'						X		

## Additional Instructions:

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

Sampled by: HB

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<i>Michelle Gonzales</i>	2-3-25	11:40	<i>Michelle Gonzales</i>	2-3-25	11:40	Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3
<i>Michelle Gonzales</i>	2-3-25	15:45	<i>Richard Gonzales</i>	2-3-25	15:45	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C
<i>Richard Gonzales</i>	2-3-25	22:45	<i>Caitlin Mann</i>	2-4-25	10:30	4

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

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

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



envirotech

## Envirotech Analytical Laboratory

Printed: 2/4/2025 8:24:27AM

## 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:	Devon Energy - Carlsbad	Date Received:	02/04/25 06:30	Work Order ID:	E502013
Phone:	(575) 748-0176	Date Logged In:	02/03/25 16:41	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	02/10/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

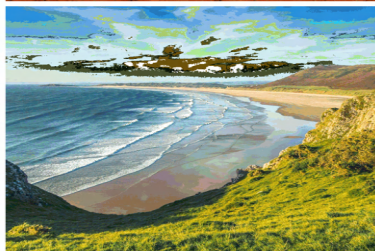
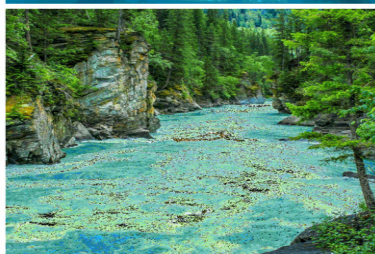
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:  
Anna Byers



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

### Devon Energy - Carlsbad

Project Name: Boundary Raider 5 Federal #231H

Work Order: E502193

Job Number: 01058-0007

Received: 2/21/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
2/27/25

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: 2/27/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: Boundary Raider 5 Federal #231H  
Workorder: E502193  
Date Received: 2/21/2025 4:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/21/2025 4:30:00AM, under the Project Name: Boundary Raider 5 Federal #231H.

The analytical test results summarized in this report with the Project Name: Boundary Raider 5 Federal #231H 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
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[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

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**Michelle Gonzales**  
Client Representative  
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[mgonzaless@envirotech-inc.com](mailto:mgonzaless@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)



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## Sample Summary

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Boundary Raider 5 Federal #231H Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 02/27/25 08:48
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH13 0.5'	E502193-01A	Soil	02/18/25	02/21/25	Glass Jar, 2 oz.
PH13 2'	E502193-02A	Soil	02/18/25	02/21/25	Glass Jar, 2 oz.
PH14 0.5'	E502193-03A	Soil	02/18/25	02/21/25	Glass Jar, 2 oz.
PH14 2'	E502193-04A	Soil	02/18/25	02/21/25	Glass Jar, 2 oz.
PH15 0.5'	E502193-05A	Soil	02/18/25	02/21/25	Glass Jar, 2 oz.
PH15 2'	E502193-06A	Soil	02/18/25	02/21/25	Glass Jar, 2 oz.
PH16 0.5'	E502193-07A	Soil	02/18/25	02/21/25	Glass Jar, 2 oz.
PH16 2'	E502193-08A	Soil	02/18/25	02/21/25	Glass Jar, 2 oz.
PH17 0.5'	E502193-09A	Soil	02/18/25	02/21/25	Glass Jar, 2 oz.
PH17 2'	E502193-10A	Soil	02/18/25	02/21/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/27/2025 8:48:36AM

PH13 0.5'

E502193-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2508103
Benzene	ND	0.0250	1	02/21/25	02/21/25	
Ethylbenzene	ND	0.0250	1	02/21/25	02/21/25	
Toluene	ND	0.0250	1	02/21/25	02/21/25	
o-Xylene	ND	0.0250	1	02/21/25	02/21/25	
p,m-Xylene	ND	0.0500	1	02/21/25	02/21/25	
Total Xylenes	ND	0.0250	1	02/21/25	02/21/25	
Surrogate: Bromofluorobenzene	95.6 %	70-130		02/21/25	02/21/25	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		02/21/25	02/21/25	
Surrogate: Toluene-d8	96.9 %	70-130		02/21/25	02/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2508103
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/21/25	02/21/25	
Surrogate: Bromofluorobenzene	95.6 %	70-130		02/21/25	02/21/25	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		02/21/25	02/21/25	
Surrogate: Toluene-d8	96.9 %	70-130		02/21/25	02/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2509013
Diesel Range Organics (C10-C28)	ND	25.0	1	02/21/25	02/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/21/25	02/24/25	
Surrogate: n-Nonane	105 %	61-141		02/21/25	02/24/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2508115
Chloride	ND	20.0	1	02/21/25	02/21/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/27/2025 8:48:36AM

## PH13 2'

## E502193-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2508103
Benzene	ND	0.0250	1	02/21/25	02/21/25	
Ethylbenzene	ND	0.0250	1	02/21/25	02/21/25	
Toluene	ND	0.0250	1	02/21/25	02/21/25	
o-Xylene	ND	0.0250	1	02/21/25	02/21/25	
p,m-Xylene	ND	0.0500	1	02/21/25	02/21/25	
Total Xylenes	ND	0.0250	1	02/21/25	02/21/25	
Surrogate: Bromofluorobenzene	94.1 %	70-130		02/21/25	02/21/25	
Surrogate: 1,2-Dichloroethane-d4	97.2 %	70-130		02/21/25	02/21/25	
Surrogate: Toluene-d8	97.8 %	70-130		02/21/25	02/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2508103
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/21/25	02/21/25	
Surrogate: Bromofluorobenzene	94.1 %	70-130		02/21/25	02/21/25	
Surrogate: 1,2-Dichloroethane-d4	97.2 %	70-130		02/21/25	02/21/25	
Surrogate: Toluene-d8	97.8 %	70-130		02/21/25	02/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2508107
Diesel Range Organics (C10-C28)	ND	25.0	1	02/21/25	02/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/21/25	02/22/25	
Surrogate: n-Nonane	112 %	61-141		02/21/25	02/22/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2508115
Chloride	ND	20.0	1	02/21/25	02/21/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/27/2025 8:48:36AM

PH14 0.5'

E502193-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2508103
Benzene	ND	0.0250	1	02/21/25	02/21/25	
Ethylbenzene	ND	0.0250	1	02/21/25	02/21/25	
Toluene	ND	0.0250	1	02/21/25	02/21/25	
o-Xylene	ND	0.0250	1	02/21/25	02/21/25	
p,m-Xylene	ND	0.0500	1	02/21/25	02/21/25	
Total Xylenes	ND	0.0250	1	02/21/25	02/21/25	
Surrogate: Bromofluorobenzene	96.0 %	70-130		02/21/25	02/21/25	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		02/21/25	02/21/25	
Surrogate: Toluene-d8	97.4 %	70-130		02/21/25	02/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2508103
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/21/25	02/21/25	
Surrogate: Bromofluorobenzene	96.0 %	70-130		02/21/25	02/21/25	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		02/21/25	02/21/25	
Surrogate: Toluene-d8	97.4 %	70-130		02/21/25	02/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2508107
Diesel Range Organics (C10-C28)	ND	25.0	1	02/21/25	02/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/21/25	02/22/25	
Surrogate: n-Nonane	106 %	61-141		02/21/25	02/22/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2508115
Chloride	ND	20.0	1	02/21/25	02/21/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/27/2025 8:48:36AM

## PH14 2'

## E502193-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2508103
Benzene	ND	0.0250	1	02/21/25	02/21/25	
Ethylbenzene	ND	0.0250	1	02/21/25	02/21/25	
Toluene	ND	0.0250	1	02/21/25	02/21/25	
o-Xylene	ND	0.0250	1	02/21/25	02/21/25	
p,m-Xylene	ND	0.0500	1	02/21/25	02/21/25	
Total Xylenes	ND	0.0250	1	02/21/25	02/21/25	
Surrogate: Bromofluorobenzene	95.7 %	70-130		02/21/25	02/21/25	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		02/21/25	02/21/25	
Surrogate: Toluene-d8	98.4 %	70-130		02/21/25	02/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2508103
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/21/25	02/21/25	
Surrogate: Bromofluorobenzene	95.7 %	70-130		02/21/25	02/21/25	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		02/21/25	02/21/25	
Surrogate: Toluene-d8	98.4 %	70-130		02/21/25	02/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2508107
Diesel Range Organics (C10-C28)	ND	25.0	1	02/21/25	02/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/21/25	02/22/25	
Surrogate: n-Nonane	107 %	61-141		02/21/25	02/22/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2508115
Chloride	ND	20.0	1	02/21/25	02/21/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/27/2025 8:48:36AM

PH15 0.5'

E502193-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2508103
Benzene	ND	0.0250	1	02/21/25	02/21/25	
Ethylbenzene	ND	0.0250	1	02/21/25	02/21/25	
Toluene	ND	0.0250	1	02/21/25	02/21/25	
o-Xylene	ND	0.0250	1	02/21/25	02/21/25	
p,m-Xylene	ND	0.0500	1	02/21/25	02/21/25	
Total Xylenes	ND	0.0250	1	02/21/25	02/21/25	
Surrogate: Bromofluorobenzene	95.5 %	70-130		02/21/25	02/21/25	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		02/21/25	02/21/25	
Surrogate: Toluene-d8	96.8 %	70-130		02/21/25	02/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2508103
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/21/25	02/21/25	
Surrogate: Bromofluorobenzene	95.5 %	70-130		02/21/25	02/21/25	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		02/21/25	02/21/25	
Surrogate: Toluene-d8	96.8 %	70-130		02/21/25	02/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2508107
Diesel Range Organics (C10-C28)	ND	25.0	1	02/21/25	02/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/21/25	02/22/25	
Surrogate: n-Nonane	113 %	61-141		02/21/25	02/22/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2508115
Chloride	ND	20.0	1	02/21/25	02/21/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/27/2025 8:48:36AM

## PH15 2'

## E502193-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2508103
Benzene	ND	0.0250	1	02/21/25	02/21/25	
Ethylbenzene	ND	0.0250	1	02/21/25	02/21/25	
Toluene	ND	0.0250	1	02/21/25	02/21/25	
o-Xylene	ND	0.0250	1	02/21/25	02/21/25	
p,m-Xylene	ND	0.0500	1	02/21/25	02/21/25	
Total Xylenes	ND	0.0250	1	02/21/25	02/21/25	
Surrogate: Bromofluorobenzene	97.6 %	70-130		02/21/25	02/21/25	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		02/21/25	02/21/25	
Surrogate: Toluene-d8	99.9 %	70-130		02/21/25	02/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2508103
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/21/25	02/21/25	
Surrogate: Bromofluorobenzene	97.6 %	70-130		02/21/25	02/21/25	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		02/21/25	02/21/25	
Surrogate: Toluene-d8	99.9 %	70-130		02/21/25	02/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2508107
Diesel Range Organics (C10-C28)	ND	25.0	1	02/21/25	02/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/21/25	02/22/25	
Surrogate: n-Nonane	110 %	61-141		02/21/25	02/22/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2508115
Chloride	ND	20.0	1	02/21/25	02/21/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/27/2025 8:48:36AM

PH16 0.5'

E502193-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2508103
Benzene	ND	0.0250	1	02/21/25	02/21/25	
Ethylbenzene	ND	0.0250	1	02/21/25	02/21/25	
Toluene	ND	0.0250	1	02/21/25	02/21/25	
o-Xylene	ND	0.0250	1	02/21/25	02/21/25	
p,m-Xylene	ND	0.0500	1	02/21/25	02/21/25	
Total Xylenes	ND	0.0250	1	02/21/25	02/21/25	
Surrogate: Bromofluorobenzene	95.1 %	70-130		02/21/25	02/21/25	
Surrogate: 1,2-Dichloroethane-d4	94.2 %	70-130		02/21/25	02/21/25	
Surrogate: Toluene-d8	97.5 %	70-130		02/21/25	02/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2508103
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/21/25	02/21/25	
Surrogate: Bromofluorobenzene	95.1 %	70-130		02/21/25	02/21/25	
Surrogate: 1,2-Dichloroethane-d4	94.2 %	70-130		02/21/25	02/21/25	
Surrogate: Toluene-d8	97.5 %	70-130		02/21/25	02/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2508107
Diesel Range Organics (C10-C28)	ND	25.0	1	02/21/25	02/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/21/25	02/22/25	
Surrogate: n-Nonane	110 %	61-141		02/21/25	02/22/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2508115
Chloride	ND	20.0	1	02/21/25	02/21/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/27/2025 8:48:36AM

## PH16 2'

## E502193-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2508103
Benzene	ND	0.0250	1	02/21/25	02/21/25	
Ethylbenzene	ND	0.0250	1	02/21/25	02/21/25	
Toluene	ND	0.0250	1	02/21/25	02/21/25	
o-Xylene	ND	0.0250	1	02/21/25	02/21/25	
p,m-Xylene	ND	0.0500	1	02/21/25	02/21/25	
Total Xylenes	ND	0.0250	1	02/21/25	02/21/25	
Surrogate: Bromofluorobenzene	97.2 %	70-130		02/21/25	02/21/25	
Surrogate: 1,2-Dichloroethane-d4	92.8 %	70-130		02/21/25	02/21/25	
Surrogate: Toluene-d8	100 %	70-130		02/21/25	02/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2508103
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/21/25	02/21/25	
Surrogate: Bromofluorobenzene	97.2 %	70-130		02/21/25	02/21/25	
Surrogate: 1,2-Dichloroethane-d4	92.8 %	70-130		02/21/25	02/21/25	
Surrogate: Toluene-d8	100 %	70-130		02/21/25	02/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2508107
Diesel Range Organics (C10-C28)	ND	25.0	1	02/21/25	02/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/21/25	02/22/25	
Surrogate: n-Nonane	111 %	61-141		02/21/25	02/22/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2508115
Chloride	ND	20.0	1	02/21/25	02/21/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/27/2025 8:48:36AM

PH17 0.5'

E502193-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2508103
Benzene	ND	0.0250	1	02/21/25	02/21/25	
Ethylbenzene	ND	0.0250	1	02/21/25	02/21/25	
Toluene	ND	0.0250	1	02/21/25	02/21/25	
o-Xylene	ND	0.0250	1	02/21/25	02/21/25	
p,m-Xylene	ND	0.0500	1	02/21/25	02/21/25	
Total Xylenes	ND	0.0250	1	02/21/25	02/21/25	
Surrogate: Bromofluorobenzene	94.1 %	70-130		02/21/25	02/21/25	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		02/21/25	02/21/25	
Surrogate: Toluene-d8	96.0 %	70-130		02/21/25	02/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2508103
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/21/25	02/21/25	
Surrogate: Bromofluorobenzene	94.1 %	70-130		02/21/25	02/21/25	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		02/21/25	02/21/25	
Surrogate: Toluene-d8	96.0 %	70-130		02/21/25	02/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2508107
Diesel Range Organics (C10-C28)	30.3	25.0	1	02/21/25	02/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/21/25	02/22/25	
Surrogate: n-Nonane	111 %	61-141		02/21/25	02/22/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2508115
Chloride	29.2	20.0	1	02/21/25	02/21/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/27/2025 8:48:36AM

## PH17 2'

## E502193-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2508103
Benzene	ND	0.0250	1	02/21/25	02/22/25	
Ethylbenzene	ND	0.0250	1	02/21/25	02/22/25	
Toluene	ND	0.0250	1	02/21/25	02/22/25	
o-Xylene	ND	0.0250	1	02/21/25	02/22/25	
p,m-Xylene	ND	0.0500	1	02/21/25	02/22/25	
Total Xylenes	ND	0.0250	1	02/21/25	02/22/25	
Surrogate: Bromofluorobenzene	98.6 %	70-130		02/21/25	02/22/25	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		02/21/25	02/22/25	
Surrogate: Toluene-d8	98.8 %	70-130		02/21/25	02/22/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2508103
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/21/25	02/22/25	
Surrogate: Bromofluorobenzene	98.6 %	70-130		02/21/25	02/22/25	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		02/21/25	02/22/25	
Surrogate: Toluene-d8	98.8 %	70-130		02/21/25	02/22/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2508107
Diesel Range Organics (C10-C28)	ND	25.0	1	02/21/25	02/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/21/25	02/22/25	
Surrogate: n-Nonane	113 %	61-141		02/21/25	02/22/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2508115
Chloride	ND	20.0	1	02/21/25	02/21/25	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/27/2025 8:48:36AM

## 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 (2508103-BLK1)

Prepared: 02/21/25 Analyzed: 02/21/25

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	0.479		0.500		95.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130			
Surrogate: Toluene-d8	0.485		0.500		96.9	70-130			

## LCS (2508103-BS1)

Prepared: 02/21/25 Analyzed: 02/21/25

Benzene	2.50	0.0250	2.50		99.8	70-130			
Ethylbenzene	2.42	0.0250	2.50		96.8	70-130			
Toluene	2.36	0.0250	2.50		94.4	70-130			
o-Xylene	2.29	0.0250	2.50		91.7	70-130			
p,m-Xylene	4.58	0.0500	5.00		91.6	70-130			
Total Xylenes	6.87	0.0250	7.50		91.6	70-130			
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.8	70-130			

## Matrix Spike (2508103-MS1)

Source: E502193-05

Prepared: 02/21/25 Analyzed: 02/21/25

Benzene	2.47	0.0250	2.50	ND	98.8	48-131			
Ethylbenzene	2.39	0.0250	2.50	ND	95.7	45-135			
Toluene	2.35	0.0250	2.50	ND	94.0	48-130			
o-Xylene	2.32	0.0250	2.50	ND	92.6	43-135			
p,m-Xylene	4.63	0.0500	5.00	ND	92.7	43-135			
Total Xylenes	6.95	0.0250	7.50	ND	92.7	43-135			
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.3	70-130			
Surrogate: Toluene-d8	0.477		0.500		95.4	70-130			

## Matrix Spike Dup (2508103-MSD1)

Source: E502193-05

Prepared: 02/21/25 Analyzed: 02/21/25

Benzene	2.03	0.0250	2.50	ND	81.4	48-131	19.4	23	
Ethylbenzene	1.98	0.0250	2.50	ND	79.3	45-135	18.8	27	
Toluene	1.94	0.0250	2.50	ND	77.5	48-130	19.2	24	
o-Xylene	1.90	0.0250	2.50	ND	75.9	43-135	19.8	27	
p,m-Xylene	3.81	0.0500	5.00	ND	76.2	43-135	19.5	27	
Total Xylenes	5.71	0.0250	7.50	ND	76.1	43-135	19.6	27	
Surrogate: Bromofluorobenzene	0.480		0.500		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		96.0	70-130			
Surrogate: Toluene-d8	0.478		0.500		95.5	70-130			





## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/27/2025 8:48:36AM

## 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 (2508103-BLK1)

Prepared: 02/21/25 Analyzed: 02/21/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.479		0.500		95.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130			
Surrogate: Toluene-d8	0.485		0.500		96.9	70-130			

## LCS (2508103-BS2)

Prepared: 02/21/25 Analyzed: 02/21/25

Gasoline Range Organics (C6-C10)	44.1	20.0	50.0		88.2	70-130			
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.2	70-130			
Surrogate: Toluene-d8	0.495		0.500		99.0	70-130			

## Matrix Spike (2508103-MS2)

Source: E502193-05

Prepared: 02/21/25 Analyzed: 02/21/25

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0	ND	86.6	70-130			
Surrogate: Bromofluorobenzene	0.489		0.500		97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.5	70-130			

## Matrix Spike Dup (2508103-MSD2)

Source: E502193-05

Prepared: 02/21/25 Analyzed: 02/21/25

Gasoline Range Organics (C6-C10)	42.1	20.0	50.0	ND	84.2	70-130	2.88	20	
Surrogate: Bromofluorobenzene	0.482		0.500		96.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/27/2025 8:48:36AM

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 (2508107-BLK1)					Prepared: 02/21/25 Analyzed: 02/21/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.7		50.0		107	61-141			

LCS (2508107-BS1)					Prepared: 02/21/25 Analyzed: 02/21/25				
Diesel Range Organics (C10-C28)	277	25.0	250		111	66-144			
Surrogate: n-Nonane	55.3		50.0		111	61-141			

Matrix Spike (2508107-MS1)					Source: E502194-05		Prepared: 02/21/25 Analyzed: 02/22/25		
Diesel Range Organics (C10-C28)	344	25.0	250	ND	137	56-156			
Surrogate: n-Nonane	58.2		50.0		116	61-141			

Matrix Spike Dup (2508107-MSD1)					Source: E502194-05		Prepared: 02/21/25 Analyzed: 02/22/25		
Diesel Range Organics (C10-C28)	351	25.0	250	ND	140	56-156	2.01	20	
Surrogate: n-Nonane	58.9		50.0		118	61-141			



## QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Boundary Raider 5 Federal #231H Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 2/27/2025 8:48:36AM
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## 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 (2509013-BLK1)

Prepared: 02/24/25 Analyzed: 02/24/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.4		50.0		107	61-141			

## LCS (2509013-BS1)

Prepared: 02/24/25 Analyzed: 02/24/25

Diesel Range Organics (C10-C28)	257	25.0	250		103	66-144			
Surrogate: n-Nonane	52.5		50.0		105	61-141			

## Matrix Spike (2509013-MS1)

Source: E502220-24

Prepared: 02/24/25 Analyzed: 02/24/25

Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.7	56-156			
Surrogate: n-Nonane	51.3		50.0		103	61-141			

## Matrix Spike Dup (2509013-MSD1)

Source: E502220-24

Prepared: 02/24/25 Analyzed: 02/24/25

Diesel Range Organics (C10-C28)	251	25.0	250	ND	100	56-156	1.75	20	
Surrogate: n-Nonane	51.5		50.0		103	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/27/2025 8:48:36AM

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2508115-BLK1)					Prepared: 02/21/25 Analyzed: 02/21/25				
Chloride	ND	20.0							
LCS (2508115-BS1)					Prepared: 02/21/25 Analyzed: 02/21/25				
Chloride	258	20.0	250		103	90-110			
Matrix Spike (2508115-MS1)					Source: E502193-04		Prepared: 02/21/25 Analyzed: 02/21/25		
Chloride	258	20.0	250	ND	103	80-120			
Matrix Spike Dup (2508115-MSD1)					Source: E502193-04		Prepared: 02/21/25 Analyzed: 02/21/25		
Chloride	259	20.0	250	ND	104	80-120	0.267	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

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	02/27/25 08:48

- 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.



Client: Devon Energy Production Co, LP				Bill To		Lab Use Only		TAT				EPA Program		
Project: Boundary Raider 5 Federal #231H				Attention: Jim Raley		Lab WO#		1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E 502193		Job Number		5 day TAT				
Etech Project #: 21689				City, State, Zip: Carlsbad, NM, 88220		01058-0007								
Address: 13000 W County Rd 100				Phone: 575-885-7502										
City, State, Zip: Odessa, TX, 79765				Email: jim.raley@dm.com										
Phone: 432-305-6415				WO: 21483855										
Email: Devon-team@etechnv.com				Incident ID: nAPP2501341167										
Collected by: Haleigh Blume														
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDGC TX	Remarks
9:40	02.18.2025	S	1	PH13	1	0.5'						X		
9:55	02.18.2025	S	1	PH13	2	2'						X		
11:30	02.18.2025	S	1	PH14	3	0.5'						X		
11:40	02.18.2025	S	1	PH14	4	2'						X		
13:00	02.18.2025	S	1	PH15	5	0.5'						X		
13:10	02.18.2025	S	1	PH15	6	2'						X		
14:10	02.18.2025	S	1	PH16	7	0.5'						X		
14:20	02.18.2025	S	1	PH16	8	2'						X		
15:05	02.18.2025	S	1	PH17	9	0.5'						X		
15:15	02.18.2025	S	1	PH17	10	2'						X		
Additional Instructions:														
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: HB														
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.														
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only		
Michelle Gonzales		2-20-25		1640		Michelle Gonzales		2-19-25		1748		Received on ice: Y/N		
Michelle Gonzales		2-20-25		1640		John H.		2-20-25		1730		T1 T2 T3		
John H.		2-20-25		2400		Haleigh R. Heiser		2-21-25		0430		AVG Temp °C 4		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other														
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA														
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.														





## Envirotech Analytical Laboratory

Printed: 2/21/2025 10:16:37AM

## 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:	Devon Energy - Carlsbad	Date Received:	02/21/25 04:30	Work Order ID:	E502193
Phone:	(575) 748-0176	Date Logged In:	02/20/25 15:41	Logged In By:	Caitlin Mars
Email:	anna@etechnv.com	Due Date:	02/27/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: Boundary Raider 5 Federal #231H

Work Order: E502189

Job Number: 01058-0007

Received: 2/21/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
2/26/25

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: 2/26/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: Boundary Raider 5 Federal #231H  
Workorder: E502189  
Date Received: 2/21/2025 4:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/21/2025 4:30:00AM, under the Project Name: Boundary Raider 5 Federal #231H.

The analytical test results summarized in this report with the Project Name: Boundary Raider 5 Federal #231H 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
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[mgonzaless@envirotech-inc.com](mailto:mgonzaless@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	02/26/25 11:34

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH13 4'	E502189-01A	Soil	02/18/25	02/21/25	Glass Jar, 2 oz.
PH14 4'	E502189-02A	Soil	02/18/25	02/21/25	Glass Jar, 2 oz.
PH15 4'	E502189-03A	Soil	02/18/25	02/21/25	Glass Jar, 2 oz.
PH16 4'	E502189-04A	Soil	02/18/25	02/21/25	Glass Jar, 2 oz.
PH17 4'	E502189-05A	Soil	02/18/25	02/21/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/26/2025 11:34:09AM

**PH13 4'**

**E502189-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2508101
Benzene	ND	0.0250	1	02/21/25	02/21/25	
Ethylbenzene	ND	0.0250	1	02/21/25	02/21/25	
Toluene	ND	0.0250	1	02/21/25	02/21/25	
o-Xylene	ND	0.0250	1	02/21/25	02/21/25	
p,m-Xylene	ND	0.0500	1	02/21/25	02/21/25	
Total Xylenes	ND	0.0250	1	02/21/25	02/21/25	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	02/21/25	02/21/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.3 %	70-130	02/21/25	02/21/25	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	02/21/25	02/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2508101
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/21/25	02/21/25	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	02/21/25	02/21/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.3 %	70-130	02/21/25	02/21/25	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	02/21/25	02/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2508108
Diesel Range Organics (C10-C28)	ND	25.0	1	02/21/25	02/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/21/25	02/22/25	
<i>Surrogate: n-Nonane</i>		87.5 %	61-141	02/21/25	02/22/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2508113
Chloride	ND	20.0	1	02/21/25	02/21/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/26/2025 11:34:09AM

## PH15 4'

## E502189-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2508101
Benzene	ND	0.0250	1	02/21/25	02/21/25	
Ethylbenzene	ND	0.0250	1	02/21/25	02/21/25	
Toluene	ND	0.0250	1	02/21/25	02/21/25	
o-Xylene	ND	0.0250	1	02/21/25	02/21/25	
p,m-Xylene	ND	0.0500	1	02/21/25	02/21/25	
Total Xylenes	ND	0.0250	1	02/21/25	02/21/25	
Surrogate: Bromofluorobenzene		103 %	70-130	02/21/25	02/21/25	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	02/21/25	02/21/25	
Surrogate: Toluene-d8		103 %	70-130	02/21/25	02/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2508101
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/21/25	02/21/25	
Surrogate: Bromofluorobenzene		103 %	70-130	02/21/25	02/21/25	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	02/21/25	02/21/25	
Surrogate: Toluene-d8		103 %	70-130	02/21/25	02/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2508108
Diesel Range Organics (C10-C28)	ND	25.0	1	02/21/25	02/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/21/25	02/22/25	
Surrogate: n-Nonane		90.4 %	61-141	02/21/25	02/22/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2508113
Chloride	ND	20.0	1	02/21/25	02/21/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/26/2025 11:34:09AM

## PH16 4'

## E502189-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2508101
Benzene	ND	0.0250	1	02/21/25	02/21/25	
Ethylbenzene	ND	0.0250	1	02/21/25	02/21/25	
Toluene	ND	0.0250	1	02/21/25	02/21/25	
o-Xylene	ND	0.0250	1	02/21/25	02/21/25	
p,m-Xylene	ND	0.0500	1	02/21/25	02/21/25	
Total Xylenes	ND	0.0250	1	02/21/25	02/21/25	
Surrogate: Bromofluorobenzene		103 %	70-130	02/21/25	02/21/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	02/21/25	02/21/25	
Surrogate: Toluene-d8		105 %	70-130	02/21/25	02/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2508101
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/21/25	02/21/25	
Surrogate: Bromofluorobenzene		103 %	70-130	02/21/25	02/21/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	02/21/25	02/21/25	
Surrogate: Toluene-d8		105 %	70-130	02/21/25	02/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2508108
Diesel Range Organics (C10-C28)	ND	25.0	1	02/21/25	02/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/21/25	02/22/25	
Surrogate: n-Nonane		88.4 %	61-141	02/21/25	02/22/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2508113
Chloride	ND	20.0	1	02/21/25	02/21/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
2/26/2025 11:34:09AM

PH17 4'

E502189-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2508101
Benzene	ND	0.0250	1	02/21/25	02/21/25	
Ethylbenzene	ND	0.0250	1	02/21/25	02/21/25	
Toluene	ND	0.0250	1	02/21/25	02/21/25	
o-Xylene	ND	0.0250	1	02/21/25	02/21/25	
p,m-Xylene	ND	0.0500	1	02/21/25	02/21/25	
Total Xylenes	ND	0.0250	1	02/21/25	02/21/25	
Surrogate: Bromofluorobenzene		105 %	70-130	02/21/25	02/21/25	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	02/21/25	02/21/25	
Surrogate: Toluene-d8		104 %	70-130	02/21/25	02/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2508101
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/21/25	02/21/25	
Surrogate: Bromofluorobenzene		105 %	70-130	02/21/25	02/21/25	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	02/21/25	02/21/25	
Surrogate: Toluene-d8		104 %	70-130	02/21/25	02/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2508108
Diesel Range Organics (C10-C28)	ND	25.0	1	02/21/25	02/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/21/25	02/22/25	
Surrogate: n-Nonane		86.3 %	61-141	02/21/25	02/22/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2508113
Chloride	ND	20.0	1	02/21/25	02/21/25	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/26/2025 11:34:09AM

## Volatile Organic Compounds by EPA 8260B

Analyst: SL

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

## Blank (2508101-BLK1)

Prepared: 02/21/25 Analyzed: 02/21/25

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	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

## LCS (2508101-BS1)

Prepared: 02/21/25 Analyzed: 02/21/25

Benzene	2.32	0.0250	2.50		92.6	70-130			
Ethylbenzene	2.37	0.0250	2.50		95.0	70-130			
Toluene	2.47	0.0250	2.50		98.8	70-130			
o-Xylene	2.46	0.0250	2.50		98.2	70-130			
p,m-Xylene	5.06	0.0500	5.00		101	70-130			
Total Xylenes	7.52	0.0250	7.50		100	70-130			
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

## Matrix Spike (2508101-MS1)

Source: E502190-02

Prepared: 02/21/25 Analyzed: 02/21/25

Benzene	2.28	0.0250	2.50	ND	91.2	48-131			
Ethylbenzene	2.33	0.0250	2.50	ND	93.4	45-135			
Toluene	2.43	0.0250	2.50	ND	97.1	48-130			
o-Xylene	2.45	0.0250	2.50	ND	98.0	43-135			
p,m-Xylene	5.04	0.0500	5.00	ND	101	43-135			
Total Xylenes	7.50	0.0250	7.50	ND	99.9	43-135			
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			

## Matrix Spike Dup (2508101-MSD1)

Source: E502190-02

Prepared: 02/21/25 Analyzed: 02/21/25

Benzene	2.44	0.0250	2.50	ND	97.6	48-131	6.74	23	
Ethylbenzene	2.47	0.0250	2.50	ND	98.7	45-135	5.58	27	
Toluene	2.56	0.0250	2.50	ND	102	48-130	5.31	24	
o-Xylene	2.56	0.0250	2.50	ND	102	43-135	4.19	27	
p,m-Xylene	5.28	0.0500	5.00	ND	105	43-135	4.47	27	
Total Xylenes	7.83	0.0250	7.50	ND	104	43-135	4.38	27	
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/26/2025 11:34:09AM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2508101-BLK1)

Prepared: 02/21/25 Analyzed: 02/21/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

## LCS (2508101-BS2)

Prepared: 02/21/25 Analyzed: 02/21/25

Gasoline Range Organics (C6-C10)	50.3	20.0	50.0		101	70-130			
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.6	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

## Matrix Spike (2508101-MS2)

Source: E502190-02

Prepared: 02/21/25 Analyzed: 02/21/25

Gasoline Range Organics (C6-C10)	52.0	20.0	50.0	ND	104	70-130			
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			

## Matrix Spike Dup (2508101-MSD2)

Source: E502190-02

Prepared: 02/21/25 Analyzed: 02/21/25

Gasoline Range Organics (C6-C10)	52.0	20.0	50.0	ND	104	70-130	0.0539	20	
Surrogate: Bromofluorobenzene	0.527		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/26/2025 11:34:09AM

## 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 (2508108-BLK1)

Prepared: 02/21/25 Analyzed: 02/22/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.0		50.0		87.9	61-141			

## LCS (2508108-BS1)

Prepared: 02/21/25 Analyzed: 02/22/25

Diesel Range Organics (C10-C28)	231	25.0	250		92.5	66-144			
Surrogate: n-Nonane	42.3		50.0		84.5	61-141			

## Matrix Spike (2508108-MS1)

Source: E502192-03

Prepared: 02/21/25 Analyzed: 02/22/25

Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	56-156			
Surrogate: n-Nonane	44.2		50.0		88.3	61-141			

## Matrix Spike Dup (2508108-MSD1)

Source: E502192-03

Prepared: 02/21/25 Analyzed: 02/22/25

Diesel Range Organics (C10-C28)	260	25.0	250	ND	104	56-156	3.03	20	
Surrogate: n-Nonane	44.9		50.0		89.7	61-141			





QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/26/2025 11:34:09AM

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2508113-BLK1)					Prepared: 02/21/25 Analyzed: 02/21/25				
Chloride	ND	20.0							
LCS (2508113-BS1)					Prepared: 02/21/25 Analyzed: 02/21/25				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2508113-MS1)					Source: E502189-03		Prepared: 02/21/25 Analyzed: 02/21/25		
Chloride	255	20.0	250	ND	102	80-120			
Matrix Spike Dup (2508113-MSD1)					Source: E502189-03		Prepared: 02/21/25 Analyzed: 02/21/25		
Chloride	255	20.0	250	ND	102	80-120	0.204	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

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	02/26/25 11:34

- 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.







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## Envirotech Analytical Laboratory

Printed: 2/21/2025 9:23:54AM

## 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:	Devon Energy - Carlsbad	Date Received:	02/21/25 04:30	Work Order ID:	E502189
Phone:	(575) 748-0176	Date Logged In:	02/20/25 15:11	Logged In By:	Caitlin Mars
Email:	anna@etechnv.com	Due Date:	02/27/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Sample SP14 4 was cancelled per client.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:  
Anna Byers



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: Boundary Raider 5 Federal #231H

Work Order: E502300

Job Number: 01058-0007

Received: 3/3/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
3/7/25

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.  
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.



Date Reported: 3/7/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: Boundary Raider 5 Federal #231H  
Workorder: E502300  
Date Received: 3/3/2025 7:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/3/2025 7:00:00AM, under the Project Name: Boundary Raider 5 Federal #231H.

The analytical test results summarized in this report with the Project Name: Boundary Raider 5 Federal #231H 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](mailto:whinchman@envirotech-inc.com)

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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	03/07/25 13:30

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH18 0.5'	E502300-01A	Soil	02/26/25	03/03/25	Glass Jar, 2 oz.
PH18 2'	E502300-02A	Soil	02/26/25	03/03/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
3/7/2025 1:30:04PM

PH18 0.5'

E502300-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2510007	
Benzene	ND	0.0250	1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250	1	03/03/25	03/04/25	
Toluene	ND	0.0250	1	03/03/25	03/04/25	
o-Xylene	ND	0.0250	1	03/03/25	03/04/25	
p,m-Xylene	ND	0.0500	1	03/03/25	03/04/25	
Total Xylenes	ND	0.0250	1	03/03/25	03/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.5 %	70-130	03/03/25	03/04/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2510007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.1 %	70-130	03/03/25	03/04/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: AF		Batch: 2510004	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/04/25	
<i>Surrogate: n-Nonane</i>		117 %	61-141	03/03/25	03/04/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2510019	
Chloride	ND	20.0	1	03/03/25	03/03/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
3/7/2025 1:30:04PM

PH18 2'

E502300-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2510007
Benzene	ND	0.0250	1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250	1	03/03/25	03/04/25	
Toluene	ND	0.0250	1	03/03/25	03/04/25	
o-Xylene	ND	0.0250	1	03/03/25	03/04/25	
p,m-Xylene	ND	0.0500	1	03/03/25	03/04/25	
Total Xylenes	ND	0.0250	1	03/03/25	03/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.6 %	70-130		03/03/25	03/04/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2510007
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.3 %	70-130		03/03/25	03/04/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2510004
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/04/25	
<i>Surrogate: n-Nonane</i>						
	109 %	61-141		03/03/25	03/04/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2510019
Chloride	ND	20.0	1	03/03/25	03/03/25	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/7/2025 1:30:04PM

## Volatile Organics by EPA 8021B

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2510007-BLK1)

Prepared: 03/03/25 Analyzed: 03/04/25

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	7.34		8.00		91.7	70-130			

## LCS (2510007-BS1)

Prepared: 03/03/25 Analyzed: 03/04/25

Benzene	4.83	0.0250	5.00		96.6	70-130			
Ethylbenzene	4.80	0.0250	5.00		96.1	70-130			
Toluene	4.86	0.0250	5.00		97.2	70-130			
o-Xylene	4.79	0.0250	5.00		95.8	70-130			
p,m-Xylene	9.77	0.0500	10.0		97.7	70-130			
Total Xylenes	14.6	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.30		8.00		91.3	70-130			

## Matrix Spike (2510007-MS1)

Source: E502293-24

Prepared: 03/03/25 Analyzed: 03/04/25

Benzene	5.04	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.99	0.0250	5.00	ND	99.7	61-133			
Toluene	5.06	0.0250	5.00	ND	101	61-130			
o-Xylene	4.97	0.0250	5.00	ND	99.3	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.3	70-130			

## Matrix Spike Dup (2510007-MSD1)

Source: E502293-24

Prepared: 03/03/25 Analyzed: 03/04/25

Benzene	5.32	0.0250	5.00	ND	106	54-133	5.33	20	
Ethylbenzene	5.28	0.0250	5.00	ND	106	61-133	5.73	20	
Toluene	5.34	0.0250	5.00	ND	107	61-130	5.54	20	
o-Xylene	5.27	0.0250	5.00	ND	105	63-131	5.89	20	
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131	5.73	20	
Total Xylenes	16.0	0.0250	15.0	ND	107	63-131	5.78	20	
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.1	70-130			





## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	<b>Reported:</b>
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/7/2025 1:30:04PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2510007-BLK1)**

Prepared: 03/03/25 Analyzed: 03/04/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.2	70-130			

**LCS (2510007-BS2)**

Prepared: 03/03/25 Analyzed: 03/04/25

Gasoline Range Organics (C6-C10)	43.4	20.0	50.0		86.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.6	70-130			

**Matrix Spike (2510007-MS2)**

Source: E502293-24

Prepared: 03/03/25 Analyzed: 03/04/25

Gasoline Range Organics (C6-C10)	41.1	20.0	50.0	ND	82.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.2	70-130			

**Matrix Spike Dup (2510007-MSD2)**

Source: E502293-24

Prepared: 03/03/25 Analyzed: 03/04/25

Gasoline Range Organics (C6-C10)	45.0	20.0	50.0	ND	89.9	70-130	9.00	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.4	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/7/2025 1:30:04PM

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 (2510004-BLK1)					Prepared: 03/03/25 Analyzed: 03/03/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.1		50.0		108	61-141			

LCS (2510004-BS1)					Prepared: 03/03/25 Analyzed: 03/03/25				
Diesel Range Organics (C10-C28)	256	25.0	250		103	66-144			
Surrogate: n-Nonane	53.8		50.0		108	61-141			

Matrix Spike (2510004-MS1)					Source: E502288-06		Prepared: 03/03/25 Analyzed: 03/03/25		
Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	56-156			
Surrogate: n-Nonane	55.9		50.0		112	61-141			

Matrix Spike Dup (2510004-MSD1)					Source: E502288-06		Prepared: 03/03/25 Analyzed: 03/03/25		
Diesel Range Organics (C10-C28)	287	25.0	250	ND	115	56-156	1.88	20	
Surrogate: n-Nonane	58.2		50.0		116	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/7/2025 1:30:04PM

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 (2510019-BLK1)					Prepared: 03/03/25 Analyzed: 03/03/25				
Chloride	ND	20.0							
LCS (2510019-BS1)					Prepared: 03/03/25 Analyzed: 03/03/25				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2510019-MS1)					Source: E502291-02		Prepared: 03/03/25 Analyzed: 03/03/25		
Chloride	368	20.0	250	114	102	80-120			
Matrix Spike Dup (2510019-MSD1)					Source: E502291-02		Prepared: 03/03/25 Analyzed: 03/03/25		
Chloride	367	20.0	250	114	101	80-120	0.245	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

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	03/07/25 13:30

- 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.



Client: Devon Energy Production Co, LP				Bill To		Lab Use Only		TAT				EPA Program											
Project: Boundary Raider 5 Federal #231H				Attention: Jim Raley		Lab WO#		1D		2D		3D		Standard		CWA		SDWA					
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E 502300		Job Number						5 day TAT									
Etech Project #: 21689				City, State, Zip: Carlsbad, NM, 88220				01058-0507															
Address: 13000 W County Rd 100				Phone: 575-885-7502																			
City, State, Zip: Odessa, TX, 79765				Email: jim.raley@dmn.com																			
Phone: 432-305-6415				WO: 21483855																			
Email: Devon-team@etechenv.com				Incident ID: nAPP2501341167																			
Collected by: Haleigh Blume																							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	NM	GDOC	TX	Remarks							
8:30	02.18.2025	S	1	PH18	1	0.5'						X											
8:40	02.18.2025	S	1	PH18	2	2'						X											
Additional Instructions:																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.											
Sampled by: HB																							
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		Lab Use Only							
Haleigh Blume				2/18/25		1700		Michelle Gonzales				2-27-25		1700		Received on ice: Y N							
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		T1				T2		T3	
Michelle Gonzales				2-28-25		1600		J. H.				2-28-25		1700									
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		AVG Temp °C							
J. H.				2-28-25		2400		Cuth Mc				3-3-25		700		4							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA											
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																							



## Envirotech Analytical Laboratory

Printed: 3/3/2025 10:26:55AM

## 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:	Devon Energy - Carlsbad	Date Received:	03/03/25 07:00	Work Order ID:	E502300
Phone:	(575) 748-0176	Date Logged In:	02/28/25 17:14	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	03/07/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: Boundary Raider 5 Federal #231H

Work Order: E502299

Job Number: 01058-0007

Received: 3/3/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
3/7/25

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: 3/7/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: Boundary Raider 5 Federal #231H  
Workorder: E502299  
Date Received: 3/3/2025 7:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/3/2025 7:00:00AM, under the Project Name: Boundary Raider 5 Federal #231H.

The analytical test results summarized in this report with the Project Name: Boundary Raider 5 Federal #231H 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	03/07/25 13:28

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH18 4'	E502299-01A	Soil	02/26/25	03/03/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
3/7/2025 1:28:51PM

PH18 4'

E502299-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2510007	
Benzene	ND	0.0250	1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250	1	03/03/25	03/04/25	
Toluene	ND	0.0250	1	03/03/25	03/04/25	
o-Xylene	ND	0.0250	1	03/03/25	03/04/25	
p,m-Xylene	ND	0.0500	1	03/03/25	03/04/25	
Total Xylenes	ND	0.0250	1	03/03/25	03/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.6 %	70-130	03/03/25	03/04/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2510007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.0 %	70-130	03/03/25	03/04/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: AF		Batch: 2510004	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/04/25	
<i>Surrogate: n-Nonane</i>		115 %	61-141	03/03/25	03/04/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2510019	
Chloride	ND	20.0	1	03/03/25	03/03/25	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/7/2025 1:28:51PM

## Volatile Organics by EPA 8021B

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2510007-BLK1)

Prepared: 03/03/25 Analyzed: 03/04/25

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	7.34		8.00		91.7	70-130			

## LCS (2510007-BS1)

Prepared: 03/03/25 Analyzed: 03/04/25

Benzene	4.83	0.0250	5.00		96.6	70-130			
Ethylbenzene	4.80	0.0250	5.00		96.1	70-130			
Toluene	4.86	0.0250	5.00		97.2	70-130			
o-Xylene	4.79	0.0250	5.00		95.8	70-130			
p,m-Xylene	9.77	0.0500	10.0		97.7	70-130			
Total Xylenes	14.6	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.30		8.00		91.3	70-130			

## Matrix Spike (2510007-MS1)

Source: E502293-24

Prepared: 03/03/25 Analyzed: 03/04/25

Benzene	5.04	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.99	0.0250	5.00	ND	99.7	61-133			
Toluene	5.06	0.0250	5.00	ND	101	61-130			
o-Xylene	4.97	0.0250	5.00	ND	99.3	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.3	70-130			

## Matrix Spike Dup (2510007-MSD1)

Source: E502293-24

Prepared: 03/03/25 Analyzed: 03/04/25

Benzene	5.32	0.0250	5.00	ND	106	54-133	5.33	20	
Ethylbenzene	5.28	0.0250	5.00	ND	106	61-133	5.73	20	
Toluene	5.34	0.0250	5.00	ND	107	61-130	5.54	20	
o-Xylene	5.27	0.0250	5.00	ND	105	63-131	5.89	20	
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131	5.73	20	
Total Xylenes	16.0	0.0250	15.0	ND	107	63-131	5.78	20	
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.1	70-130			





QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/7/2025 1:28:51PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2510007-BLK1) Prepared: 03/03/25 Analyzed: 03/04/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.2	70-130			

LCS (2510007-BS2) Prepared: 03/03/25 Analyzed: 03/04/25

Gasoline Range Organics (C6-C10)	43.4	20.0	50.0		86.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.6	70-130			

Matrix Spike (2510007-MS2) Source: E502293-24 Prepared: 03/03/25 Analyzed: 03/04/25

Gasoline Range Organics (C6-C10)	41.1	20.0	50.0	ND	82.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.2	70-130			

Matrix Spike Dup (2510007-MSD2) Source: E502293-24 Prepared: 03/03/25 Analyzed: 03/04/25

Gasoline Range Organics (C6-C10)	45.0	20.0	50.0	ND	89.9	70-130	9.00	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.4	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/7/2025 1:28:51PM

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 (2510004-BLK1)					Prepared: 03/03/25 Analyzed: 03/03/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.1		50.0		108	61-141			

LCS (2510004-BS1)					Prepared: 03/03/25 Analyzed: 03/03/25				
Diesel Range Organics (C10-C28)	256	25.0	250		103	66-144			
Surrogate: n-Nonane	53.8		50.0		108	61-141			

Matrix Spike (2510004-MS1)					Source: E502288-06		Prepared: 03/03/25 Analyzed: 03/03/25		
Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	56-156			
Surrogate: n-Nonane	55.9		50.0		112	61-141			

Matrix Spike Dup (2510004-MSD1)					Source: E502288-06		Prepared: 03/03/25 Analyzed: 03/03/25		
Diesel Range Organics (C10-C28)	287	25.0	250	ND	115	56-156	1.88	20	
Surrogate: n-Nonane	58.2		50.0		116	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/7/2025 1:28:51PM

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 (2510019-BLK1)					Prepared: 03/03/25 Analyzed: 03/03/25				
Chloride	ND	20.0							
LCS (2510019-BS1)					Prepared: 03/03/25 Analyzed: 03/03/25				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2510019-MS1)					Source: E502291-02		Prepared: 03/03/25 Analyzed: 03/03/25		
Chloride	368	20.0	250	114	102	80-120			
Matrix Spike Dup (2510019-MSD1)					Source: E502291-02		Prepared: 03/03/25 Analyzed: 03/03/25		
Chloride	367	20.0	250	114	101	80-120	0.245	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

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	03/07/25 13:28

- 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

## Envirotech Analytical Laboratory

Printed: 3/3/2025 10:25:19AM

## 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:	Devon Energy - Carlsbad	Date Received:	03/03/25 07:00	Work Order ID:	E502299
Phone:	(575) 748-0176	Date Logged In:	02/28/25 17:12	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	03/07/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: Boundary Raider 5 Federal #231H

Work Order: E502296

Job Number: 01058-0007

Received: 3/3/2025

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
3/11/25

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: 3/11/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: Boundary Raider 5 Federal #231H  
Workorder: E502296  
Date Received: 3/3/2025 7:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/3/2025 7:00:00AM, under the Project Name: Boundary Raider 5 Federal #231H.

The analytical test results summarized in this report with the Project Name: Boundary Raider 5 Federal #231H 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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Sample Summary

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:  03/11/25 09:49
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH06 6'	E502296-01A	Soil	02/26/25	03/03/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
3/11/2025 9:49:27AM

PH06 6'

E502296-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2510023
Benzene	ND	0.0250	1	03/03/25	03/05/25	
Ethylbenzene	ND	0.0250	1	03/03/25	03/05/25	
Toluene	ND	0.0250	1	03/03/25	03/05/25	
o-Xylene	ND	0.0250	1	03/03/25	03/05/25	
p,m-Xylene	ND	0.0500	1	03/03/25	03/05/25	
Total Xylenes	ND	0.0250	1	03/03/25	03/05/25	
Surrogate: Bromofluorobenzene		100 %	70-130	03/03/25	03/05/25	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130	03/03/25	03/05/25	
Surrogate: Toluene-d8		103 %	70-130	03/03/25	03/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2510023
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/05/25	
Surrogate: Bromofluorobenzene		100 %	70-130	03/03/25	03/05/25	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130	03/03/25	03/05/25	
Surrogate: Toluene-d8		103 %	70-130	03/03/25	03/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2510010
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/04/25	
Surrogate: n-Nonane		110 %	61-141	03/03/25	03/04/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2510019
Chloride	118	20.0	1	03/03/25	03/03/25	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/11/2025 9:49:27AM

## Volatile Organic Compounds by EPA 8260B

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2510023-BLK1)

Prepared: 03/03/25 Analyzed: 03/04/25

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	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

## LCS (2510023-BS1)

Prepared: 03/03/25 Analyzed: 03/04/25

Benzene	2.51	0.0250	2.50		100	70-130			
Ethylbenzene	2.62	0.0250	2.50		105	70-130			
Toluene	2.68	0.0250	2.50		107	70-130			
o-Xylene	2.80	0.0250	2.50		112	70-130			
p,m-Xylene	5.56	0.0500	5.00		111	70-130			
Total Xylenes	8.36	0.0250	7.50		112	70-130			
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

## Matrix Spike (2510023-MS1)

Source: E502294-05

Prepared: 03/03/25 Analyzed: 03/04/25

Benzene	2.55	0.0250	2.50	ND	102	48-131			
Ethylbenzene	2.66	0.0250	2.50	ND	106	45-135			
Toluene	2.72	0.0250	2.50	ND	109	48-130			
o-Xylene	2.86	0.0250	2.50	ND	114	43-135			
p,m-Xylene	5.65	0.0500	5.00	ND	113	43-135			
Total Xylenes	8.51	0.0250	7.50	ND	113	43-135			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			

## Matrix Spike Dup (2510023-MSD1)

Source: E502294-05

Prepared: 03/03/25 Analyzed: 03/04/25

Benzene	2.59	0.0250	2.50	ND	104	48-131	1.66	23	
Ethylbenzene	2.73	0.0250	2.50	ND	109	45-135	2.66	27	
Toluene	2.78	0.0250	2.50	ND	111	48-130	2.07	24	
o-Xylene	2.92	0.0250	2.50	ND	117	43-135	2.32	27	
p,m-Xylene	5.78	0.0500	5.00	ND	116	43-135	2.21	27	
Total Xylenes	8.70	0.0250	7.50	ND	116	43-135	2.25	27	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			





## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/11/2025 9:49:27AM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2510023-BLK1)

Prepared: 03/03/25 Analyzed: 03/04/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

## LCS (2510023-BS2)

Prepared: 03/03/25 Analyzed: 03/06/25

Gasoline Range Organics (C6-C10)	52.1	20.0	50.0		104	70-130			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.5	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

## Matrix Spike (2510023-MS2)

Source: E502294-05

Prepared: 03/03/25 Analyzed: 03/06/25

Gasoline Range Organics (C6-C10)	49.0	20.0	50.0	ND	97.9	70-130			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

## Matrix Spike Dup (2510023-MSD2)

Source: E502294-05

Prepared: 03/03/25 Analyzed: 03/06/25

Gasoline Range Organics (C6-C10)	52.1	20.0	50.0	ND	104	70-130	6.18	20	
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/11/2025 9:49:27AM

## 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 (2510010-BLK1)

Prepared: 03/03/25 Analyzed: 03/03/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.0		50.0		104	61-141			

## LCS (2510010-BS1)

Prepared: 03/03/25 Analyzed: 03/03/25

Diesel Range Organics (C10-C28)	253	25.0	250		101	66-144			
Surrogate: n-Nonane	51.4		50.0		103	61-141			

## Matrix Spike (2510010-MS1)

Source: E502291-03

Prepared: 03/03/25 Analyzed: 03/03/25

Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	56-156			
Surrogate: n-Nonane	53.4		50.0		107	61-141			

## Matrix Spike Dup (2510010-MSD1)

Source: E502291-03

Prepared: 03/03/25 Analyzed: 03/03/25

Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	56-156	0.707	20	
Surrogate: n-Nonane	53.7		50.0		107	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/11/2025 9:49:27AM

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 (2510019-BLK1)					Prepared: 03/03/25 Analyzed: 03/03/25				
Chloride	ND	20.0							
LCS (2510019-BS1)					Prepared: 03/03/25 Analyzed: 03/03/25				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2510019-MS1)					Source: E502291-02		Prepared: 03/03/25 Analyzed: 03/03/25		
Chloride	368	20.0	250	114	102	80-120			
Matrix Spike Dup (2510019-MSD1)					Source: E502291-02		Prepared: 03/03/25 Analyzed: 03/03/25		
Chloride	367	20.0	250	114	101	80-120	0.245	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

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	03/11/25 09:49

- 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: 3/3/2025 10:19:44AM

## 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:	Devon Energy - Carlsbad	Date Received:	03/03/25 07:00	Work Order ID:	E502296
Phone:	(575) 748-0176	Date Logged In:	02/28/25 16:58	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	03/07/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Visible whiteout 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? 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:  
Anna Byers



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: Boundary Raider 5 Federal #231H

Work Order: E502298

Job Number: 01058-0007

Received: 3/3/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
3/7/25

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: 3/7/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: Boundary Raider 5 Federal #231H  
Workorder: E502298  
Date Received: 3/3/2025 7:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/3/2025 7:00:00AM, under the Project Name: Boundary Raider 5 Federal #231H.

The analytical test results summarized in this report with the Project Name: Boundary Raider 5 Federal #231H 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	03/07/25 13:27

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH14 4'	E502298-01A	Soil	02/26/25	03/03/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
3/7/2025 1:27:30PM

PH14 4'

E502298-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2510007	
Benzene	ND	0.0250	1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250	1	03/03/25	03/04/25	
Toluene	ND	0.0250	1	03/03/25	03/04/25	
o-Xylene	ND	0.0250	1	03/03/25	03/04/25	
p,m-Xylene	ND	0.0500	1	03/03/25	03/04/25	
Total Xylenes	ND	0.0250	1	03/03/25	03/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.4 %	70-130		03/03/25	03/04/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2510007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.4 %	70-130		03/03/25	03/04/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: AF		Batch: 2510004	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/04/25	
<i>Surrogate: n-Nonane</i>	115 %	61-141		03/03/25	03/04/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2510019	
Chloride	ND	20.0	1	03/03/25	03/03/25	





## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/7/2025 1:27:30PM

## Volatile Organics by EPA 8021B

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2510007-BLK1)

Prepared: 03/03/25 Analyzed: 03/04/25

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	7.34		8.00		91.7	70-130			

## LCS (2510007-BS1)

Prepared: 03/03/25 Analyzed: 03/04/25

Benzene	4.83	0.0250	5.00		96.6	70-130			
Ethylbenzene	4.80	0.0250	5.00		96.1	70-130			
Toluene	4.86	0.0250	5.00		97.2	70-130			
o-Xylene	4.79	0.0250	5.00		95.8	70-130			
p,m-Xylene	9.77	0.0500	10.0		97.7	70-130			
Total Xylenes	14.6	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.30		8.00		91.3	70-130			

## Matrix Spike (2510007-MS1)

Source: E502293-24

Prepared: 03/03/25 Analyzed: 03/04/25

Benzene	5.04	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.99	0.0250	5.00	ND	99.7	61-133			
Toluene	5.06	0.0250	5.00	ND	101	61-130			
o-Xylene	4.97	0.0250	5.00	ND	99.3	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.3	70-130			

## Matrix Spike Dup (2510007-MSD1)

Source: E502293-24

Prepared: 03/03/25 Analyzed: 03/04/25

Benzene	5.32	0.0250	5.00	ND	106	54-133	5.33	20	
Ethylbenzene	5.28	0.0250	5.00	ND	106	61-133	5.73	20	
Toluene	5.34	0.0250	5.00	ND	107	61-130	5.54	20	
o-Xylene	5.27	0.0250	5.00	ND	105	63-131	5.89	20	
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131	5.73	20	
Total Xylenes	16.0	0.0250	15.0	ND	107	63-131	5.78	20	
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.1	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/7/2025 1:27:30PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2510007-BLK1) Prepared: 03/03/25 Analyzed: 03/04/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.2	70-130			

LCS (2510007-BS2) Prepared: 03/03/25 Analyzed: 03/04/25

Gasoline Range Organics (C6-C10)	43.4	20.0	50.0		86.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.6	70-130			

Matrix Spike (2510007-MS2) Source: E502293-24 Prepared: 03/03/25 Analyzed: 03/04/25

Gasoline Range Organics (C6-C10)	41.1	20.0	50.0	ND	82.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.2	70-130			

Matrix Spike Dup (2510007-MSD2) Source: E502293-24 Prepared: 03/03/25 Analyzed: 03/04/25

Gasoline Range Organics (C6-C10)	45.0	20.0	50.0	ND	89.9	70-130	9.00	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.4	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/7/2025 1:27:30PM

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 (2510004-BLK1)					Prepared: 03/03/25 Analyzed: 03/03/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.1		50.0		108	61-141			

LCS (2510004-BS1)					Prepared: 03/03/25 Analyzed: 03/03/25				
Diesel Range Organics (C10-C28)	256	25.0	250		103	66-144			
Surrogate: n-Nonane	53.8		50.0		108	61-141			

Matrix Spike (2510004-MS1)					Source: E502288-06		Prepared: 03/03/25 Analyzed: 03/03/25		
Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	56-156			
Surrogate: n-Nonane	55.9		50.0		112	61-141			

Matrix Spike Dup (2510004-MSD1)					Source: E502288-06		Prepared: 03/03/25 Analyzed: 03/03/25		
Diesel Range Organics (C10-C28)	287	25.0	250	ND	115	56-156	1.88	20	
Surrogate: n-Nonane	58.2		50.0		116	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/7/2025 1:27:30PM

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 (2510019-BLK1)					Prepared: 03/03/25 Analyzed: 03/03/25				
Chloride	ND	20.0							
LCS (2510019-BS1)					Prepared: 03/03/25 Analyzed: 03/03/25				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2510019-MS1)					Source: E502291-02		Prepared: 03/03/25 Analyzed: 03/03/25		
Chloride	368	20.0	250	114	102	80-120			
Matrix Spike Dup (2510019-MSD1)					Source: E502291-02		Prepared: 03/03/25 Analyzed: 03/03/25		
Chloride	367	20.0	250	114	101	80-120	0.245	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

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	03/07/25 13:27

- 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.



[illegible]

envirotech



## Envirotech Analytical Laboratory

Printed: 3/3/2025 10:23:46AM

## 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:	Devon Energy - Carlsbad	Date Received:	03/03/25 07:00	Work Order ID:	E502298
Phone:	(575) 748-0176	Date Logged In:	02/28/25 17:08	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	03/07/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: Boundary Raider 5 Federal #231H

Work Order: E502297

Job Number: 01058-0007

Received: 3/3/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
3/7/25

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: 3/7/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: Boundary Raider 5 Federal #231H  
Workorder: E502297  
Date Received: 3/3/2025 7:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/3/2025 7:00:00AM, under the Project Name: Boundary Raider 5 Federal #231H.

The analytical test results summarized in this report with the Project Name: Boundary Raider 5 Federal #231H 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
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Sample Summary

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:  03/07/25 13:26
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH07 1'	E502297-01A	Soil	02/26/25	03/03/25	Glass Jar, 2 oz.
PH08 1'	E502297-02A	Soil	02/26/25	03/03/25	Glass Jar, 2 oz.
PH09 1'	E502297-03A	Soil	02/26/25	03/03/25	Glass Jar, 2 oz.
PH10 1'	E502297-04A	Soil	02/26/25	03/03/25	Glass Jar, 2 oz.
PH11 1'	E502297-05A	Soil	02/26/25	03/03/25	Glass Jar, 2 oz.
PH12 1'	E502297-06A	Soil	02/26/25	03/03/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
3/7/2025 1:26:10PM

PH07 1'

E502297-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2510007	
Benzene	ND	0.0250	1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250	1	03/03/25	03/04/25	
Toluene	ND	0.0250	1	03/03/25	03/04/25	
o-Xylene	ND	0.0250	1	03/03/25	03/04/25	
p,m-Xylene	ND	0.0500	1	03/03/25	03/04/25	
Total Xylenes	ND	0.0250	1	03/03/25	03/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.5 %	70-130	03/03/25	03/04/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2510007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.3 %	70-130	03/03/25	03/04/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2510010	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/04/25	
<i>Surrogate: n-Nonane</i>		111 %	61-141	03/03/25	03/04/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2510019	
Chloride	167	20.0	1	03/03/25	03/03/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
3/7/2025 1:26:10PM

PH08 1'

E502297-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2510007	
Benzene	ND	0.0250	1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250	1	03/03/25	03/04/25	
Toluene	ND	0.0250	1	03/03/25	03/04/25	
o-Xylene	ND	0.0250	1	03/03/25	03/04/25	
p,m-Xylene	ND	0.0500	1	03/03/25	03/04/25	
Total Xylenes	ND	0.0250	1	03/03/25	03/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.9 %	70-130		03/03/25	03/04/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2510007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.3 %	70-130		03/03/25	03/04/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2510010	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/04/25	
<i>Surrogate: n-Nonane</i>	110 %	61-141		03/03/25	03/04/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2510019	
Chloride	72.0	20.0	1	03/03/25	03/03/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
3/7/2025 1:26:10PM

## PH09 1'

## E502297-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2510007
Benzene	ND	0.0250	1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250	1	03/03/25	03/04/25	
Toluene	ND	0.0250	1	03/03/25	03/04/25	
o-Xylene	ND	0.0250	1	03/03/25	03/04/25	
p,m-Xylene	ND	0.0500	1	03/03/25	03/04/25	
Total Xylenes	ND	0.0250	1	03/03/25	03/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.4 %	70-130		03/03/25	03/04/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2510007
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		03/03/25	03/04/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2510010
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/04/25	
<i>Surrogate: n-Nonane</i>						
	109 %	61-141		03/03/25	03/04/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2510019
Chloride	ND	20.0	1	03/03/25	03/03/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
3/7/2025 1:26:10PM

PH10 1'

E502297-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2510007	
Benzene	ND	0.0250	1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250	1	03/03/25	03/04/25	
Toluene	ND	0.0250	1	03/03/25	03/04/25	
o-Xylene	ND	0.0250	1	03/03/25	03/04/25	
p,m-Xylene	ND	0.0500	1	03/03/25	03/04/25	
Total Xylenes	ND	0.0250	1	03/03/25	03/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>96.8 %</i>	<i>70-130</i>		<i>03/03/25</i>	<i>03/04/25</i>	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2510007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>92.2 %</i>	<i>70-130</i>		<i>03/03/25</i>	<i>03/04/25</i>	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2510010	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/04/25	
<i>Surrogate: n-Nonane</i>	<i>112 %</i>	<i>61-141</i>		<i>03/03/25</i>	<i>03/04/25</i>	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2510019	
Chloride	ND	20.0	1	03/03/25	03/03/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
3/7/2025 1:26:10PM

PH11 1'

E502297-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2510007
Benzene	ND	0.0250	1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250	1	03/03/25	03/04/25	
Toluene	ND	0.0250	1	03/03/25	03/04/25	
o-Xylene	ND	0.0250	1	03/03/25	03/04/25	
p,m-Xylene	ND	0.0500	1	03/03/25	03/04/25	
Total Xylenes	ND	0.0250	1	03/03/25	03/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.4 %	70-130		03/03/25	03/04/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2510007
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.0 %	70-130		03/03/25	03/04/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2510010
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/04/25	
<i>Surrogate: n-Nonane</i>						
	114 %	61-141		03/03/25	03/04/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2510019
Chloride	172	20.0	1	03/03/25	03/03/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Boundary Raider 5 Federal #231H  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
3/7/2025 1:26:10PM

## PH12 1'

## E502297-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2510007	
Benzene	ND	0.0250	1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250	1	03/03/25	03/04/25	
Toluene	ND	0.0250	1	03/03/25	03/04/25	
o-Xylene	ND	0.0250	1	03/03/25	03/04/25	
p,m-Xylene	ND	0.0500	1	03/03/25	03/04/25	
Total Xylenes	ND	0.0250	1	03/03/25	03/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.9 %	70-130		03/03/25	03/04/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2510007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.0 %	70-130		03/03/25	03/04/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2510010	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/04/25	
<i>Surrogate: n-Nonane</i>	105 %	61-141		03/03/25	03/04/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2510019	
Chloride	149	20.0	1	03/03/25	03/03/25	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/7/2025 1:26:10PM

## Volatile Organics by EPA 8021B

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2510007-BLK1)

Prepared: 03/03/25 Analyzed: 03/04/25

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	7.34		8.00		91.7	70-130			

## LCS (2510007-BS1)

Prepared: 03/03/25 Analyzed: 03/04/25

Benzene	4.83	0.0250	5.00		96.6	70-130			
Ethylbenzene	4.80	0.0250	5.00		96.1	70-130			
Toluene	4.86	0.0250	5.00		97.2	70-130			
o-Xylene	4.79	0.0250	5.00		95.8	70-130			
p,m-Xylene	9.77	0.0500	10.0		97.7	70-130			
Total Xylenes	14.6	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.30		8.00		91.3	70-130			

## Matrix Spike (2510007-MS1)

Source: E502293-24

Prepared: 03/03/25 Analyzed: 03/04/25

Benzene	5.04	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.99	0.0250	5.00	ND	99.7	61-133			
Toluene	5.06	0.0250	5.00	ND	101	61-130			
o-Xylene	4.97	0.0250	5.00	ND	99.3	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.3	70-130			

## Matrix Spike Dup (2510007-MSD1)

Source: E502293-24

Prepared: 03/03/25 Analyzed: 03/04/25

Benzene	5.32	0.0250	5.00	ND	106	54-133	5.33	20	
Ethylbenzene	5.28	0.0250	5.00	ND	106	61-133	5.73	20	
Toluene	5.34	0.0250	5.00	ND	107	61-130	5.54	20	
o-Xylene	5.27	0.0250	5.00	ND	105	63-131	5.89	20	
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131	5.73	20	
Total Xylenes	16.0	0.0250	15.0	ND	107	63-131	5.78	20	
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.1	70-130			





## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	<b>Reported:</b>
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/7/2025 1:26:10PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2510007-BLK1)

Prepared: 03/03/25 Analyzed: 03/04/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.2	70-130			

## LCS (2510007-BS2)

Prepared: 03/03/25 Analyzed: 03/04/25

Gasoline Range Organics (C6-C10)	43.4	20.0	50.0		86.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.6	70-130			

## Matrix Spike (2510007-MS2)

Source: E502293-24

Prepared: 03/03/25 Analyzed: 03/04/25

Gasoline Range Organics (C6-C10)	41.1	20.0	50.0	ND	82.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.2	70-130			

## Matrix Spike Dup (2510007-MSD2)

Source: E502293-24

Prepared: 03/03/25 Analyzed: 03/04/25

Gasoline Range Organics (C6-C10)	45.0	20.0	50.0	ND	89.9	70-130	9.00	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.4	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/7/2025 1:26:10PM

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 (2510010-BLK1)					Prepared: 03/03/25 Analyzed: 03/03/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.0		50.0		104	61-141			

LCS (2510010-BS1)					Prepared: 03/03/25 Analyzed: 03/03/25				
Diesel Range Organics (C10-C28)	253	25.0	250		101	66-144			
Surrogate: n-Nonane	51.4		50.0		103	61-141			

Matrix Spike (2510010-MS1)					Source: E502291-03		Prepared: 03/03/25 Analyzed: 03/03/25		
Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	56-156			
Surrogate: n-Nonane	53.4		50.0		107	61-141			

Matrix Spike Dup (2510010-MSD1)					Source: E502291-03		Prepared: 03/03/25 Analyzed: 03/03/25		
Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	56-156	0.707	20	
Surrogate: n-Nonane	53.7		50.0		107	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/7/2025 1:26:10PM

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 (2510019-BLK1)					Prepared: 03/03/25 Analyzed: 03/03/25				
Chloride	ND	20.0							
LCS (2510019-BS1)					Prepared: 03/03/25 Analyzed: 03/03/25				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2510019-MS1)					Source: E502291-02		Prepared: 03/03/25 Analyzed: 03/03/25		
Chloride	368	20.0	250	114	102	80-120			
Matrix Spike Dup (2510019-MSD1)					Source: E502291-02		Prepared: 03/03/25 Analyzed: 03/03/25		
Chloride	367	20.0	250	114	101	80-120	0.245	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

Devon Energy - Carlsbad	Project Name:	Boundary Raider 5 Federal #231H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	03/07/25 13:26

- 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.

Client: Devon Energy Production Co, LP				Bill To				Lab Use Only				TAT				EPA Program			
Project: Boundary Raider 5 Federal #231H				Attention: Jim Raley				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.				E502297		0105800057					5 day TAT				
Etech Project #: 21689				City, State, Zip: Carlsbad, NM, 88220															
Address: 13000 W County Rd 100				Phone: 575-885-7502												RCRA			
City, State, Zip: Odessa, TX, 79765				Email: jim.raley@dm.com															
Phone: 432-305-6415				WO: 21483855															
Email: Devon-team@etechnv.com				Incident ID: nAPP2501341167															
Collected by: Haleigh Blume																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State					
														NM	CO	UT	AZ	TX	
														X					
9:20	02.26.2025	S	1	PH07	1	1'						X		Remarks					
9:25	02.26.2025	S	1	PH08	2	1'						X							
11:05	02.26.2025	S	1	PH09	3	1'						X							
12:15	02.26.2025	S	1	PH10	4	1'						X							
13:05	02.26.2025	S	1	PH11	5	1'						X							
13:50	02.26.2025	S	1	PH12	6	1'						X							

## Additional Instructions:

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: HB

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4
Michelle Gonzales	2-27-25	1700	Michelle Gonzales	2-27-25	1700	
Michelle Gonzales	2-28-25	1600	J.H.	2-28-25	1700	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
J.H.	2-28-25	2400	Cu	3-3-25	700	

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

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

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



envirotech

## Envirotech Analytical Laboratory

Printed: 3/3/2025 10:21:59AM

## 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:	Devon Energy - Carlsbad	Date Received:	03/03/25 07:00	Work Order ID:	E502297
Phone:	(575) 748-0176	Date Logged In:	02/28/25 17:03	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	03/07/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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



---

# APPENDIX G

## Correspondance & Notifications

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 424179

**QUESTIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 424179
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2501341167
Incident Name	NAPP2501341167 BOUNDARY RAIDER 5 FEDERAL #231H @ 30-025-45068
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-45068] BOUNDARY RAIDER 5 FEDERAL #231H

Location of Release Source	
Site Name	BOUNDARY RAIDER 5 FEDERAL #231H
Date Release Discovered	01/12/2025
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	15,863
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/31/2025
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Erick Herrera at 432-305-6416 with any questions.
Please provide any information necessary for navigation to sampling site	From the intersection of Red Rd and Mills Ranch Rd head East for approximately 0.4 mi, continue straight on Mills Ranch Rd for 1.9 mi to arrive at the Boundary Raider 5 Federal #231H (32.32603, -103.7018)

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1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS

Action 424179

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 424179
	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.	1/23/2025

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**Santa Fe, NM 87505**

QUESTIONS

Action 431372

**QUESTIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 431372
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2501341167
Incident Name	NAPP2501341167 BOUNDARY RAIDER 5 FEDERAL #231H @ 30-025-45068
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-45068] BOUNDARY RAIDER 5 FEDERAL #231H

Location of Release Source	
Site Name	BOUNDARY RAIDER 5 FEDERAL #231H
Date Release Discovered	01/12/2025
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	15,863
What is the estimated number of samples that will be gathered	25
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/18/2025
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Erick Herrera at 432-305-6416 with any questions.
Please provide any information necessary for navigation to sampling site	From the intersection of Red Rd and Mills Ranch Rd head East for approximately 0.4 mi, continue straight on Mills Ranch Rd for 1.9 mi to arrive at the Boundary Raider 5 Federal #231H (32.32603,-103.7018)

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CONDITIONS

Action 431372

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 431372
	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.	2/12/2025

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**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS

Action 433857

**QUESTIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 433857
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2501341167
Incident Name	NAPP2501341167 BOUNDARY RAIDER 5 FEDERAL #231H @ 30-025-45068
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-45068] BOUNDARY RAIDER 5 FEDERAL #231H

Location of Release Source	
Site Name	BOUNDARY RAIDER 5 FEDERAL #231H
Date Release Discovered	01/12/2025
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	15,863
What is the estimated number of samples that will be gathered	15
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/26/2025
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Erick Herrera at 432-305-6416 with any questions.
Please provide any information necessary for navigation to sampling site	From the intersection of Red Rd and Mills Ranch Rd head East for approximately 0.4 mi, continue straight on Mills Ranch Rd for 1.9 mi to arrive at the Boundary Raider 5 Federal #231H (32.32603,-103.7018).



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Oil Conservation Division  
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Santa Fe, NM 87505

CONDITIONS

Action 433857

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 433857
	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.	2/20/2025

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**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS

Action 447372

**QUESTIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 447372
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2501341167
Incident Name	NAPP2501341167 BOUNDARY RAIDER 5 FEDERAL #231H @ 30-025-45068
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-45068] BOUNDARY RAIDER 5 FEDERAL #231H

Location of Release Source	
Site Name	BOUNDARY RAIDER 5 FEDERAL #231H
Date Release Discovered	01/12/2025
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	15,863
What is the estimated number of samples that will be gathered	90
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/03/2025
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Erick Herrera at 432-305-6416 with any questions.
Please provide any information necessary for navigation to sampling site	From the intersection of Red Rd and Mills Ranch Rd head East for approximately 0.4 mi, continue straight on Mills Ranch Rd for 1.9 mi to arrive at the Boundary Raider 5 Federal #231H (32.32603,-103.7018)

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

CONDITIONS

Action 447372

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 447372
	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.	3/31/2025

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

QUESTIONS

Action 451763

**QUESTIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 451763
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2501341167
Incident Name	NAPP2501341167 BOUNDARY RAIDER 5 FEDERAL #231H @ 30-025-45068
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-45068] BOUNDARY RAIDER 5 FEDERAL #231H

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	BOUNDARY RAIDER 5 FEDERAL #231H
Date Release Discovered	01/12/2025
Surface Owner	Federal

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

<b>Nature and Volume of Release</b>	
<i>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.</i>	
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Well   Crude Oil   Released: 10 BBL   Recovered: 9 BBL   Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Well   Produced Water   Released: 26 BBL   Recovered: 24 BBL   Lost: 2 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Packing leak on wellhead allowed release of approx 36 bbls to pad surface. Majority of fluids recovered. No impacts offsite.

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QUESTIONS, Page 2

Action 451763

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 451763
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

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

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.ralej@dmv.com Date: 04/15/2025
--	--

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QUESTIONS, Page 3

Action 451763

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 451763
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Site Characterization</b>	
<i>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.</i>	
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
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
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	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	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	Yes

<b>Remediation Plan</b>	
<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>	
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
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	0
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	18800
BTEX (EPA SW-846 Method 8021B or 8260B)	4.1
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<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>	
On what estimated date will the remediation commence	07/31/2025
On what date will (or did) the final sampling or liner inspection occur	08/31/2025
On what date will (or was) the remediation complete(d)	08/31/2025
What is the estimated surface area (in square feet) that will be reclaimed	5450
What is the estimated volume (in cubic yards) that will be reclaimed	101
What is the estimated surface area (in square feet) that will be remediated	11854
What is the estimated volume (in cubic yards) that will be remediated	286
<i>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.</i>	
<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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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 451763

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 451763
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<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>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dmv.com Date: 04/15/2025
<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>	



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

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Action 451763

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 451763
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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**Santa Fe, NM 87505**

QUESTIONS, Page 6

Action 451763

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 451763
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	447372
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/03/2025
What was the (estimated) number of samples that were to be gathered	90
What was the sampling surface area in square feet	15863

**Remediation Closure Request**

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

Requesting a remediation closure approval with this submission	No
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Santa Fe, NM 87505

CONDITIONS

Action 451763

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 451763
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved with the following condition: Under the Site Characterization portion of the C-141 application update the minimum distance to the following upon resubmission: any playa lake (1-5 miles E or W). Submit report to the OCD by 8/5/25.	5/7/2025