

<b>Spill Volume(Bbls) Calculator</b>	
<i>Inputs in blue, Outputs in red</i>	
Contaminated Soil measurement	
Area (square feet)	Depth(inches)
<u>3923</u>	<u>0.250</u>
Cubic Feet of Soil Impacted	<u>81.729</u>
Barrels of Soil Impacted	<u>14.57</u>
Soil Type	Sand
Barrels of Oil Assuming 100% Saturation	<u>2.91</u>
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	2.91
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
<u>1673</u>	<u>0.500</u>
Standing fluid	<u>12.426</u>
<b><u>Total fluids spilled</u></b>	<b><u>15.339</u></b>



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Carlsbad, New Mexico 88220  
Tel. 432-701-2159  
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May 8, 2024

Mike Bratcher  
District Supervisor  
Oil Conservation Division, District 2  
811 S. First Street  
Artesia, New Mexico 88210

Re: Closure Report  
Ragin Cajun 13 Fed 1H  
Unit N, Section 13, Township 26S, Range 34E  
Site Coordinates: 32.0369835, -103.4278412  
Lea County, New Mexico  
Incident ID: nAPP2220947571

## **1. Introduction**

On behalf of Devon Energy Production Company (Devon), New Tech Global Environmental, LLC (NTGE) has prepared this Site Characterization and Closure Request Report for the NMOCD District 2 Office in Artesia, New Mexico for documentation of site assessment, remedial action activities, and analysis at the Ragin Cajun 13 Federal #001 (Site). The Site is 13 miles East of Bennet, New Mexico located in Unit Letter N, Section 13 of Township 26 South and Range 34 East in Lea County, New Mexico. The GPS coordinates for the release site are 32.0369835° N latitude and 103.4278412° W Longitude. The release occurred on Federal land. Figure 1 depicts the site location with respect to the nearest town and Figure 2 shows the topographic map of the site.

## **2. Background**

Based on the Release Notification C-141 Form, the release occurred on July 21<sup>st</sup>, 2022, when a flowline developed a leak underground. Upon discovery, the Site was shut-in and repairs ensued. The spill resulted in a release of approximately 15.3 barrels (bbls) of crude oil of which 4 bbls were recovered for an approximate net loss of 11.3 bbls of crude oil and produced water. The release area is shown in Figure 3. The Release Notification portion of Form C-141 for incident number nAPP2220947571 is attached to this report.

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### **3. Groundwater and Site Characterization**

Based on a review of the New Mexico Office of State Engineers and USGS databases, there are no water wells located within a ½-mile radius of the. No other receptors (playas, wetlands, waterways, lakebeds, or ordinance boundaries) are located within each specific boundary or distance from the Site. According to the Karst Potential Map, the Site is located within a low Karst area. The Site characterization documentation (Points of Diversion, Karst Potential, Significant Watercourse Map, Wetlands Map, and FEMA Map) are provided in Attachment A.

NTGE characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, from the New Mexico Administrative Code (NMCA) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12).

#### ***General Site Characterization and Groundwater:***

Site Characterization	Average Groundwater Depth (ft)
Low Karst	Unknown

**Table 3.1 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12 & 19.15.29.13)**

Regulatory Standard	Chloride	TPH (GRO+DRO+MRO)	TPH (GRO+MRO)	BTEX	Benzene
19.15.29.13 Restoration, Reclamation and Re-Vegetation (Impacted Area 0-4 Feet)	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
19.15.23.12 Remediation and Closure Criteria for Soils Impacted by a Release (>4 Feet)	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg

Notes:

--- = not defined

### **4. Initial Soil Delineation Assessment Summary and Findings**

On September 29, 2022, NTGE conducted an initial assessment and six (6) vertical sample points, (i.e., S-1 through S-6) were installed ranging from surface to 3.5 feet below ground surface (ft bgs) within the estimated impacted area. Furthermore, ten (10) horizontal sample points (i.e., H-1 through H-10) were installed outside of the suspected impacted soil area, to establish a perimeter, and were sent to Cardinal Laboratories Hobbs, New Mexico. The samples were analyzed for BTEX (by EPA method 8260B), TPH (by method 8015 Modified), and chloride (by EPA method 300.0) by Cardinal Laboratories in Hobbs, New Mexico. Analytical results indicated that all samples exhibited TPH or BTEX concentrations under Table 3.1 Closure Criteria for Soils Impacted by a Release. However, three (3) sample points (S-1 through S-3) exhibited chloride concentrations exceeding NMOCD criteria for site closure.

On October 27<sup>th</sup>, 2022, NTGE returned to site to further delineate vertically in the areas of S-1 through S-3. A total of three (3) test pits (TP-1, TP-2, TP-3) were then installed in areas near S-1 through S-3 and soil samples were taken between six (6) to eight (8) ft bgs. Analytical lab results indicated that all samples were under the regulatory limits for TPH and BTEX. However, TP-1 at NTGE Project No.: 237700

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a depth of seven (7) ft bgs exceeded the regulatory limits for chlorides. Analytical results show that all samples exhibited TPH, BTEX, and Chloride levels below regulatory limits. See Table 1. Soil boring locations are shown on Figure 3.

## **5. Remedial Action Activities and Confirmation Sampling**

Devon proceeded with remedial action activities at the Site to include the excavation and disposal of impacted soils above the regulatory limits. The release area was excavated to depths ranging from 1.5 ft bgs to 8ft bgs within the release area. The excavation area is illustrated on Figure 4.

On November 3rd, 2022, NTGE was on site to collect eighty-five (85) base composite samples (i.e., CS-1 through CS-85) and thirty (30) sidewall composite samples (SW-1 through SW-30) were collected from the excavation sidewalls to ensure impacted soils were successfully removed. Soil samples were placed directly into laboratory provided sample containers, placed on ice, and transported under proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico. Soil samples were analyzed for BTEX, TPH, and chloride. Analytical results indicated that thirty-five (35) of the confirmation base samples (CS-10, CS-20 through CS-24, CS-26, CS-28, CS-29, CS-31, CS-32, CS-38 through CS-40, CS-44, CS-46 through CS-49, CS-51, CS-56 through CS-58, CS-61, CS-62, CS-64 through CS-67, and CS-71 through CS-76) and eight (8) of the confirmation sidewalls samples (SW-16, SW-19 through SW-23, SW-27, and SW-30) were above the regulatory limits for chloride and/or TPH and the area would require further excavation.

After further remedial excavation efforts, NTGE returned to Site on December 5<sup>th</sup>, 2022 to recollect a total of thirty-four (34) base composite samples (CS-10, CS-20 through CS-24, CS-26, CS-28, CS-29, CS-31, CS-32, CS-38 through CS-40, CS-44, CS-46 through CS-49, CS-51, CS-56 through CS-58, CS-61, CS-64 through CS-67, and CS-71 through CS-76) and twenty (20) additional sidewall composite samples (SW-31 through SW-50) to ensure that impacted soils were successfully removed. Soil samples were delivered to Cardinal for the analysis of BTEX, TPH, and chlorides. Analytical results indicated that all samples were below NMOCD regulatory criteria for the site.

On January 20<sup>th</sup>, 2023, NTGE returned to Site to collect one (1) base composite sample (CS-62) to ensure that impacted soils were successfully removed. The soil sample was delivered to Cardinal for the analysis of BTEX, TPH, and chlorides. Analytical results indicated that the sample was below NMOCD regulatory criteria for the site.

## **6. Closure Request**

Based on the assessment and subsequent remedial action activities, the Site is compliant with the regulatory limits and no further actions are required at the site. A copy of the final C- 141 is attached, and Devon formally requests a no further action designation for the Site. If you have any questions regarding this report or need additional information, please contact us at 432-701-2159.



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If you have any questions regarding this letter, please contact us at (432)-701-2159.

Sincerely,  
**NTG Environmental**



Ethan Sessums  
Project Manager

Attachments:

- Table
- Figures
- Initial C-141
- Site Characterization Documentation
- Photographic Log
- Laboratory Reports and Chain-of-Custody Documents

NTGE Project No.: 237700



## **TABLES**

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**Table 1**  
**Summary of Soil Analytical Data - Delineation Samples**  
**Ragin Cajun 13 Federal #001H**  
**Devon Energy Production Company**  
**Lea County, New Mexico**

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
			Table I Closure Criteria for Soil <50feet Depth to Groundwater 19.15.29 NMAC										
10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg			
Horizontal Delineation Samples													
H-1	9/29/2022	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	37.9	37.9	19.9	57.8	128
H-2	9/29/2022	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	448
H-3	9/29/2022	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	320
H-4	9/29/2022	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	25.6	25.6	12.5	38.1	160
H-5	9/29/2022	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	25.1	25.1	<10.0	25.1	64
H-6	9/29/2022	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	96
H-7	9/29/2022	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	176
H-8	9/29/2022	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	27.4	27.4	10.8	38.2	208
H-9	9/29/2022	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	42	42	16.8	58.8	176
H-10	9/29/2022	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	46.3	46.3	18.8	65.1	192
Vertical Delineation Samples													
S-1	9/29/2022	1-1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	144
	9/29/2022	2-2.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	928
S-2	9/29/2022	1-1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	640
	9/29/2022	2-2.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	3,840
S-3	9/29/2022	1-1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	22.6	22.6	17.5	40.1	272
	9/29/2022	2-2.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	864
	9/29/2022	3-3.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	3,960
S-4	9/29/2022	1-1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	64
S-5	9/29/2022	2-2.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	96
S-6	9/29/2022	3-3.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	160
TP-1	10/27/2022	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	2,120
TP-1	10/27/2022	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	560
TP-2	10/27/2022	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	176
TP-3	10/27/2022	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	464
TP-3	10/27/2022	7	<0.050	<0.050	<0.050	<0.150	<0.300	35.9	<10.0	35.9	<10.0	35.9	320

**Notes:**

- Values reported in mg/kg
- < = Value Less Than Reporting Limit (RL)
- Bold indicates Analyte Detected
- BTEX analyses by EPA Method SW 8021B

- TPH analyses by EPA Method SW 8015 Mod.
- GRO/DRO/MRO - Gasoline/Diesel/Motor Oil

7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.

8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).

- Not Analyzed

SP-1 Sample Point Excavated

**Table 2**  
**Summary of Soil Analytical Data - Confirmation Samples**  
**Ragin Cajun 13 Federal #001H**  
**Devon Energy Production Company**  
**Lea County, New Mexico**

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			Table I Closure Criteria for Soil <50feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
Base Confirmation Samples													
CS-1	11/3/2022	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
CS-2	11/3/2022	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	41.1	<10.0	<10.0	41.1	432
CS-3	11/3/2022	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
CS-4	11/3/2022	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
CS-5	11/3/2022	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	30.9	<10.0	<10.0	30.9	80
CS-6	11/3/2022	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
CS-7	11/3/2022	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
CS-8	11/3/2022	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
CS-9	11/3/2022	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
CS-10	11/3/2022	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	668
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS-11	11/3/2022	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
CS-12	11/3/2022	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS-13	11/3/2022	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96
CS-14	11/3/2022	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
CS-15	11/3/2022	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
CS-16	11/3/2022	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS-17	11/3/2022	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
CS-18	11/3/2022	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	27.2	<10.0	<10.0	27.2	64
CS-19	11/3/2022	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
CS-20	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	44.4	<10.0	14.2	58.6	5,360
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
CS-21	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	223	<10.0	51.6	274.6	2,480
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
CS-22	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,480
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-23	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,080
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
CS-24	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	18.8	<10.0	<10.0	18.8	928
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272

**Table 2**  
**Summary of Soil Analytical Data - Confirmation Samples**  
**Ragin Cajun 13 Federal #001H**  
**Devon Energy Production Company**  
**Lea County, New Mexico**

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)		
			Table I Closure Criteria for Soil <50feet Depth to Groundwater 19.15.29 NMAC											
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg		600 mg/kg
CS-25	11/3/2022	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	40.8	<10.0	<10.0	40.8	464	
CS-26	11/3/2022	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	880	
	12/5/2022	8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80	
CS-27	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80	
CS-28	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	784	
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96	
CS-29	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,420	
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80	
CS-30	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	18	<10.0	<10.0	18	64	
CS-31	11/3/2022	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	944	
	12/5/2022	8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16	
CS-32	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	752	
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160	
CS-33	11/3/2022	1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64	
CS-34	11/3/2022	1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80	
CS-35	11/3/2022	1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80	
CS-36	11/3/2022	1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64	
CS-37	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64	
CS-38	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,340	
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144	
CS-39	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	844	
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208	
CS-40	11/3/2022	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,500	
	12/5/2022	8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32	
CS-41	11/3/2022	1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80	
CS-42	11/3/2022	1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80	
CS-43	11/3/2022	1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96	
CS-44	11/3/2022	1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,970	
	12/5/2022	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320	

**Table 2**  
**Summary of Soil Analytical Data - Confirmation Samples**  
**Ragin Cajun 13 Federal #001H**  
**Devon Energy Production Company**  
**Lea County, New Mexico**

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			Table I Closure Criteria for Soil <50feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
CS-45	11/3/2022	1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
CS-46	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,860
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS-47	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,520
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
CS-48	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	13,700
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS-49	11/3/2022	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,210
	12/5/2022	8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
CS-50	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
CS-51	11/3/2022	1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,230
	12/5/2022	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
CS-52	11/3/2022	1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
CS-53	11/3/2022	1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
CS-54	11/3/2022	1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
CS-55	11/3/2022	1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
CS-56	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,420
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
CS-57	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,160
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
CS-58	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	11,600
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS-59	11/3/2022	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
CS-60	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
CS-61	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS-62	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	928
	1/20/2023	4.5'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	<4.98
CS-63	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	496
CS-64	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,120
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64



**Table 2**  
**Summary of Soil Analytical Data - Confirmation Samples**  
**Ragin Cajun 13 Federal #001H**  
**Devon Energy Production Company**  
**Lea County, New Mexico**

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Table I Closure Criteria for Soil <50feet Depth to Groundwater 19.15.29 NMAC										(mg/kg)
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
CS-65	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,580
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
CS-66	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,580
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
CS-67	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,040
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
CS-68	11/3/2022	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
CS-69	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
CS-70	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
CS-71	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,260
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
CS-72	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,010
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS-73	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,170
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
CS-74	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,310
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
CS-75	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	44.2	<10.0	<10.0	44.2	3,120
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
CS-76	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	22.2	<10.0	<10.0	22.2	1,630
	12/5/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS-77	11/3/2022	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
CS-78	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
CS-79	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
CS-80	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
CS-81	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
CS-82	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
CS-83	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
CS-84	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
CS-85	11/3/2022	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
Sidewall Confirmation Samples													

**Table 2**  
**Summary of Soil Analytical Data - Confirmation Samples**  
**Ragin Cajun 13 Federal #001H**  
**Devon Energy Production Company**  
**Lea County, New Mexico**

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)		
			Table I Closure Criteria for Soil <50feet Depth to Groundwater 19.15.29 NMAC											
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg		600 mg/kg
SW-1	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64	
SW-2	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80	
SW-3	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160	
SW-4	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16	
SW-5	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48	
SW-6	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	576	
SW-7	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160	
SW-8	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352	
SW-9	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224	
SW-10	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144	
SW-11	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224	
SW-12	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288	
SW-13	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80	
SW-14	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384	
SW-15	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	480	
SW-16	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,880	
SW-17	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192	
SW-18	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352	
SW-19	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,320	
SW-20	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,800	
SW-21	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,380	
SW-22	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	848	
SW-23	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,920	
SW-24	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	544	
SW-25	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320	
SW-26	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240	
SW-27	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,760	
SW-28	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288	
SW-29	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320	
SW-30	11/3/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,000	
SW-31	12/5/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320	

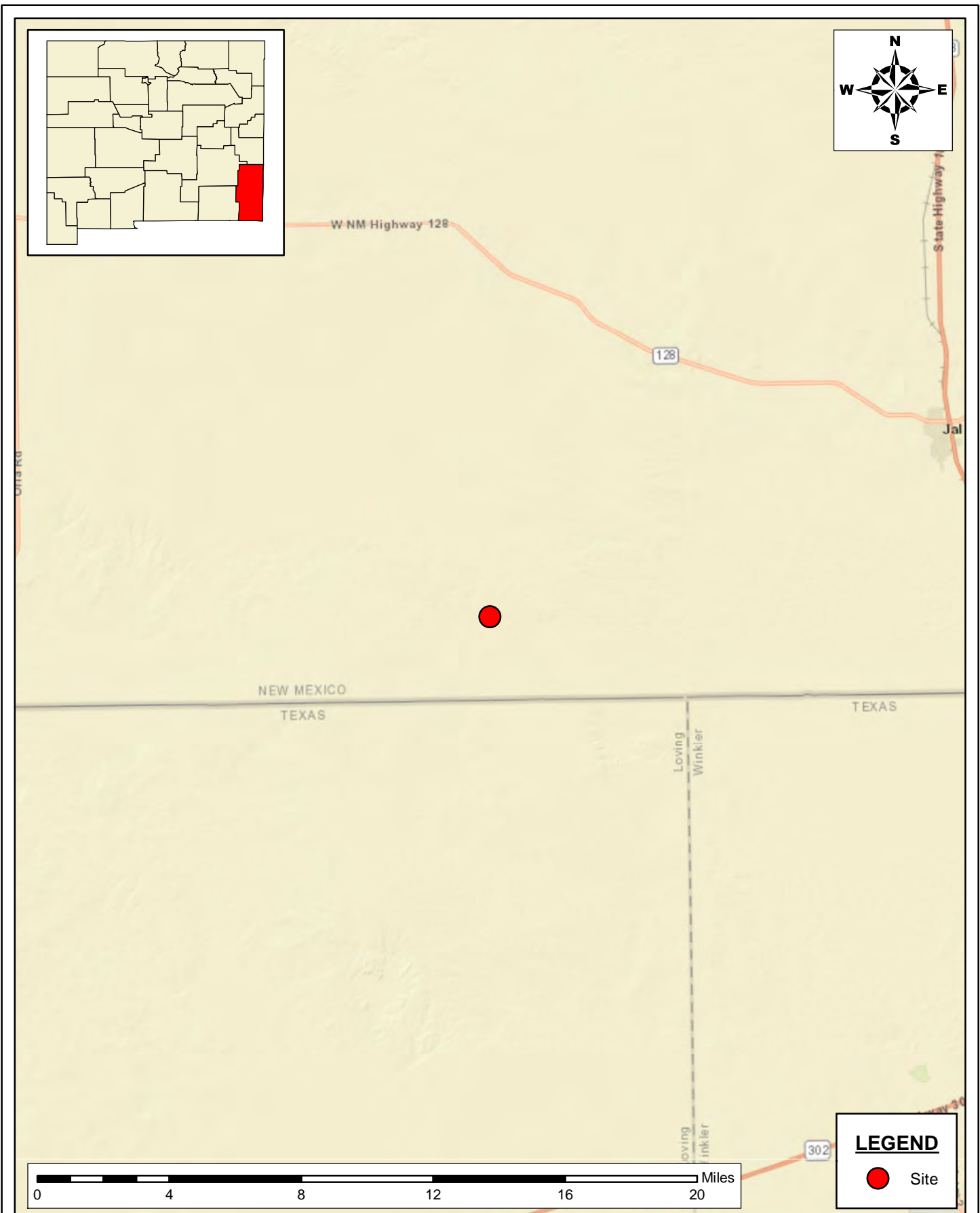
**Table 2**  
**Summary of Soil Analytical Data - Confirmation Samples**  
**Ragin Cajun 13 Federal #001H**  
**Devon Energy Production Company**  
**Lea County, New Mexico**

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Table I Closure Criteria for Soil <50feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
SW-32	12/5/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SW-33	12/5/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
SW-34	12/5/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
SW-35	12/5/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW-36	12/5/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
SW-37	12/5/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
SW-38	12/5/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SW-39	12/5/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
SW-40	12/5/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SW-41	12/5/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW-42	12/5/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
SW-43	12/5/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SW-44	12/5/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
SW-45	12/5/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96
SW-46	12/5/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
SW-47	12/5/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SW-48	12/5/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW-49	12/5/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
SW-50	12/5/2022		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32

## **FIGURES**

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**SITE LOCATION MAP  
CLOSURE REPORT**  
RAGIN CAJUN 13 FEDERAL 1  
DEVON ENERGY PRODUCTION COMPANY  
LEA COUNTY, NEW MEXICO  
32.0369835, -103.4278412

SCALE: As Shown Date: 1/10/2023 PROJECT #:237700

**New Tech Global Environmental, LLC**  
911 Regional Park Drive  
Houston, Texas 77060  
T - 281.872.9300  
F - 281.872.4521  
Web: www.ntgenviroinmental.com



**NOTES:**

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

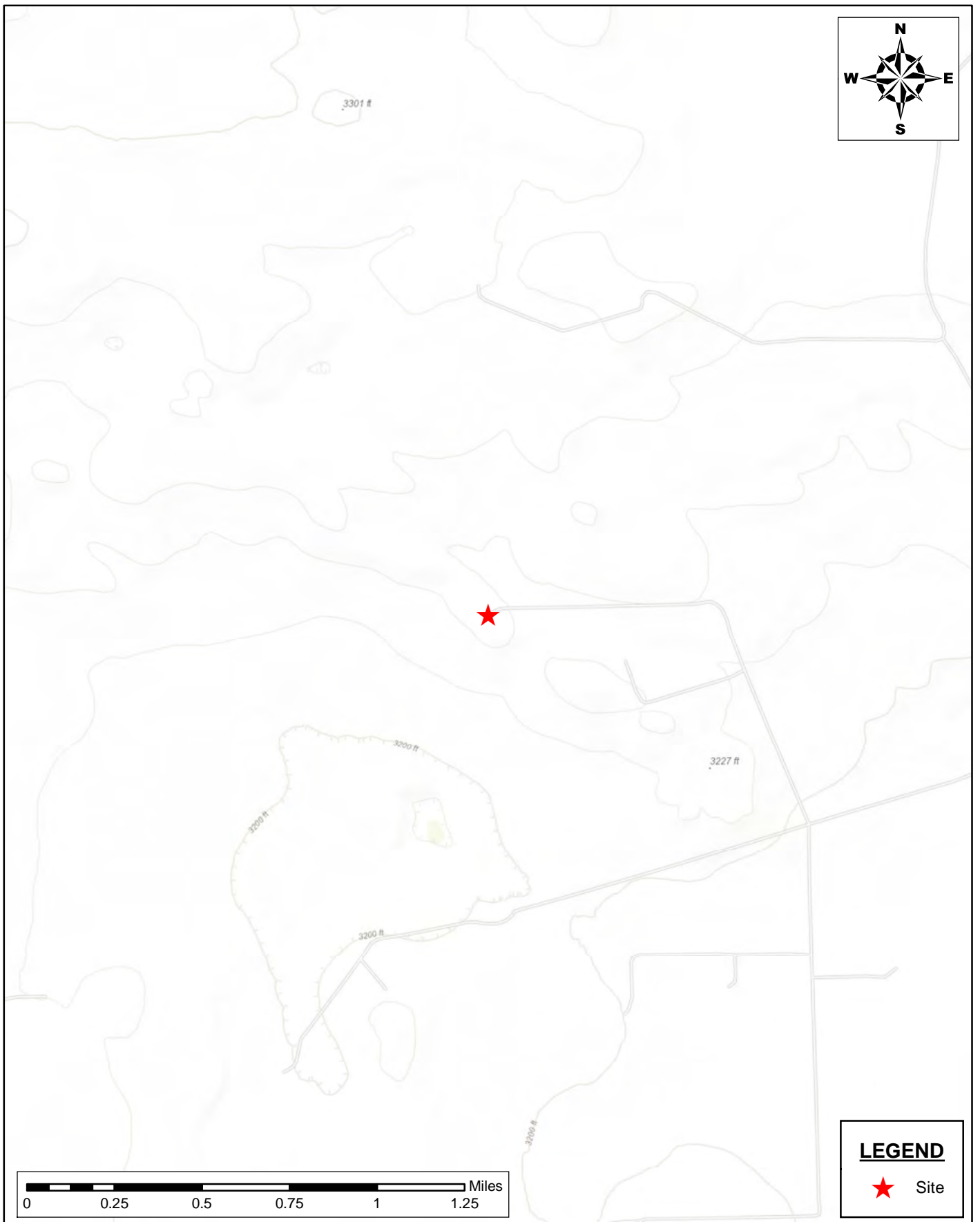
DRAWING NUMBER:

**FIGURE 2**

SHEET NUMBER:

**1 of 1**

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TOPOGRAPHIC MAP  
CLOSURE REPORT  
RAGIN CAJUN 13 FEDERAL 1  
DEVON ENERGY PRODUCTION COMPANY  
LEA COUNTY, NEW MEXICO  
32.0369835, -103.4278412

SCALE: As Shown Date: 2/13/2023 PROJECT #: 237700



New Tech Global Environmental, LLC  
911 Regional Park Drive  
Houston, Texas 77060  
T - 281.872.9300  
F - 281.872.4521  
Web: www.ntgenviroinmental.com

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

DRAWING NUMBER:

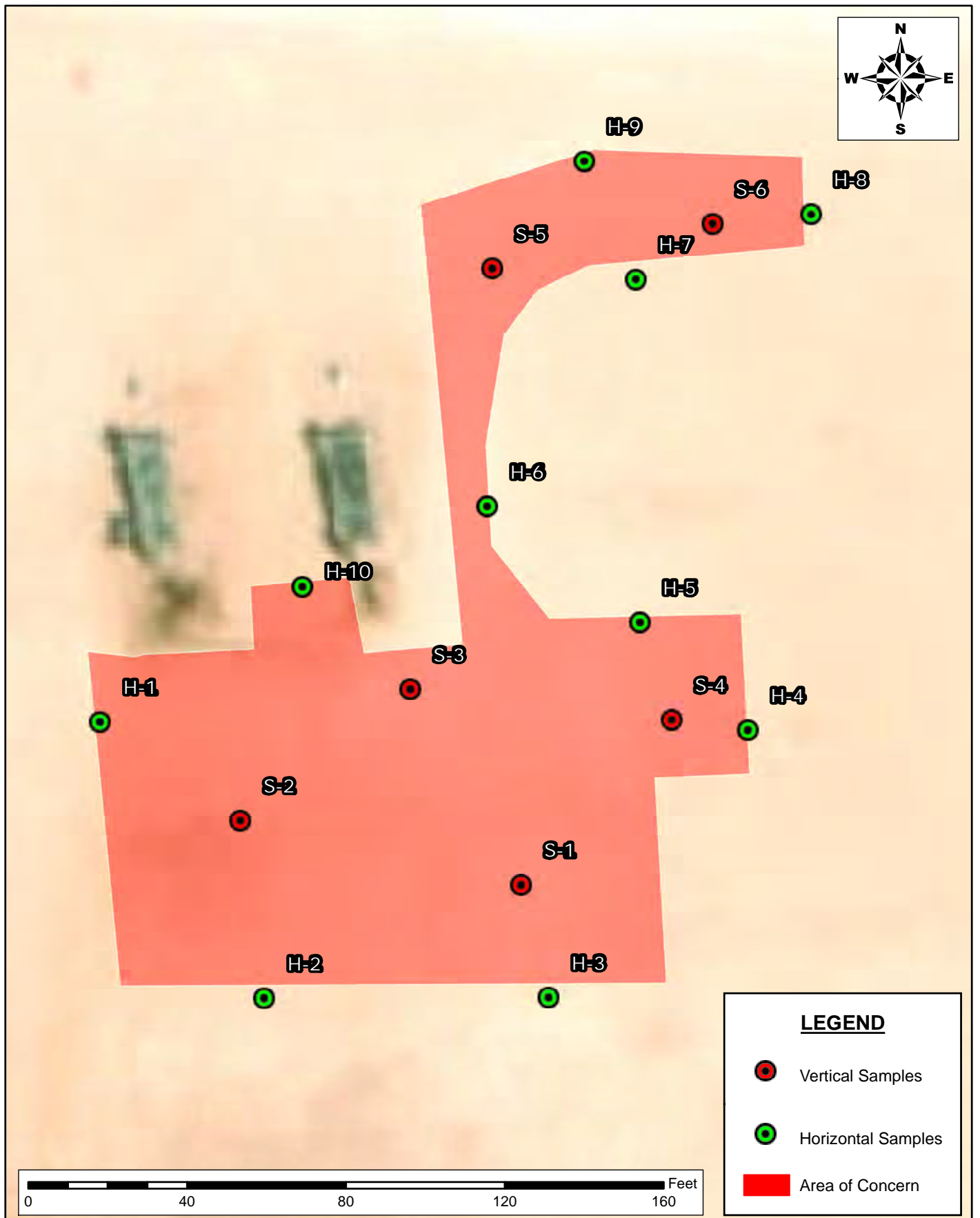
**FIGURE 2**

SHEET NUMBER:

**1 of 1**



Document Path: P:\2022 PROJECTS\DEVON\RSO\237700 - Ragin Cajun 13-1 (7.21.22)\7- Figures\GIS\Figure\_3\_SA.mxd



SITE DELINEATION MAP  
CLOSURE REPORT  
RAGIN CAJUN 13 FEDERAL 1  
DEVON ENERGY PRODUCTION COMPANY  
LEA COUNTY, NEW MEXICO  
32.0369835, -103.4278412

SCALE: As Shown

Date: 2/6/2023

PROJECT #: 237700



New Tech Global Environmental, LLC  
911 Regional Park Drive  
Houston, Texas 77060  
T - 281.872.9300  
F - 281.872.4521  
Web: www.ntgenviroinmental.com

**NOTES:**

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

DRAWING NUMBER:

**FIGURE 3**

SHEET NUMBER:

**1 of 1**



**CONFIRMATION SAMPLE MAP (EXPANDED VIEW)**  
**CLOSURE REPORT**  
**DEVON ENERGY PRODUCTION COMPANY**  
 RAGIN CAJUN 13 FEDERAL  
 LEA COUNTY, NEW MEXICO

SCALE: As Shown Date: 5/8/2024

PROJECT #: 237700

**New Tech Global Environmental, LLC**  
 911 Regional Park Drive  
 Houston, Texas 77060  
 T - 281.872.9300  
 F - 281.872.4521  
 Web: www.ntgenvironmental.com



**NOTES:**

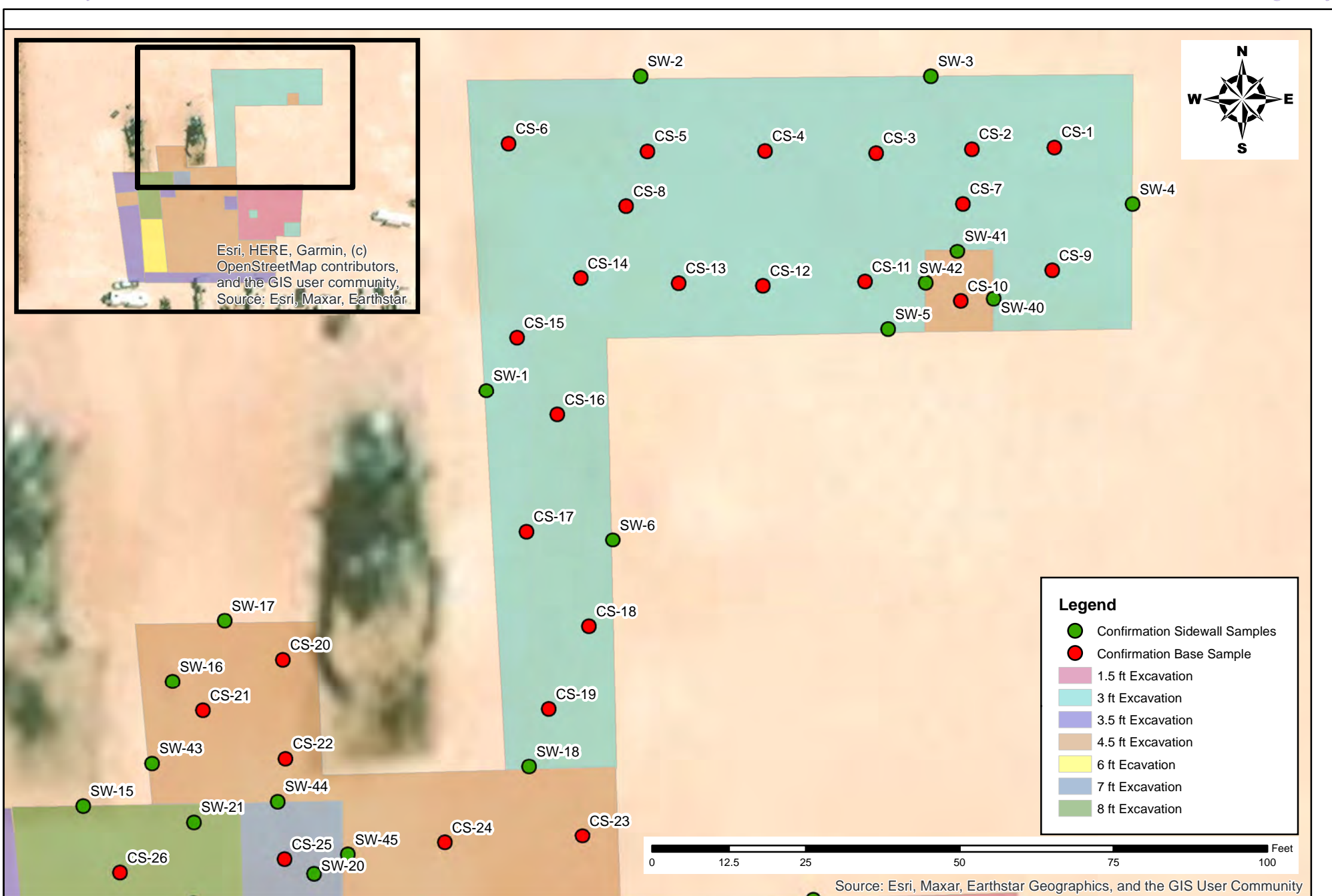
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER

FIGURE 4

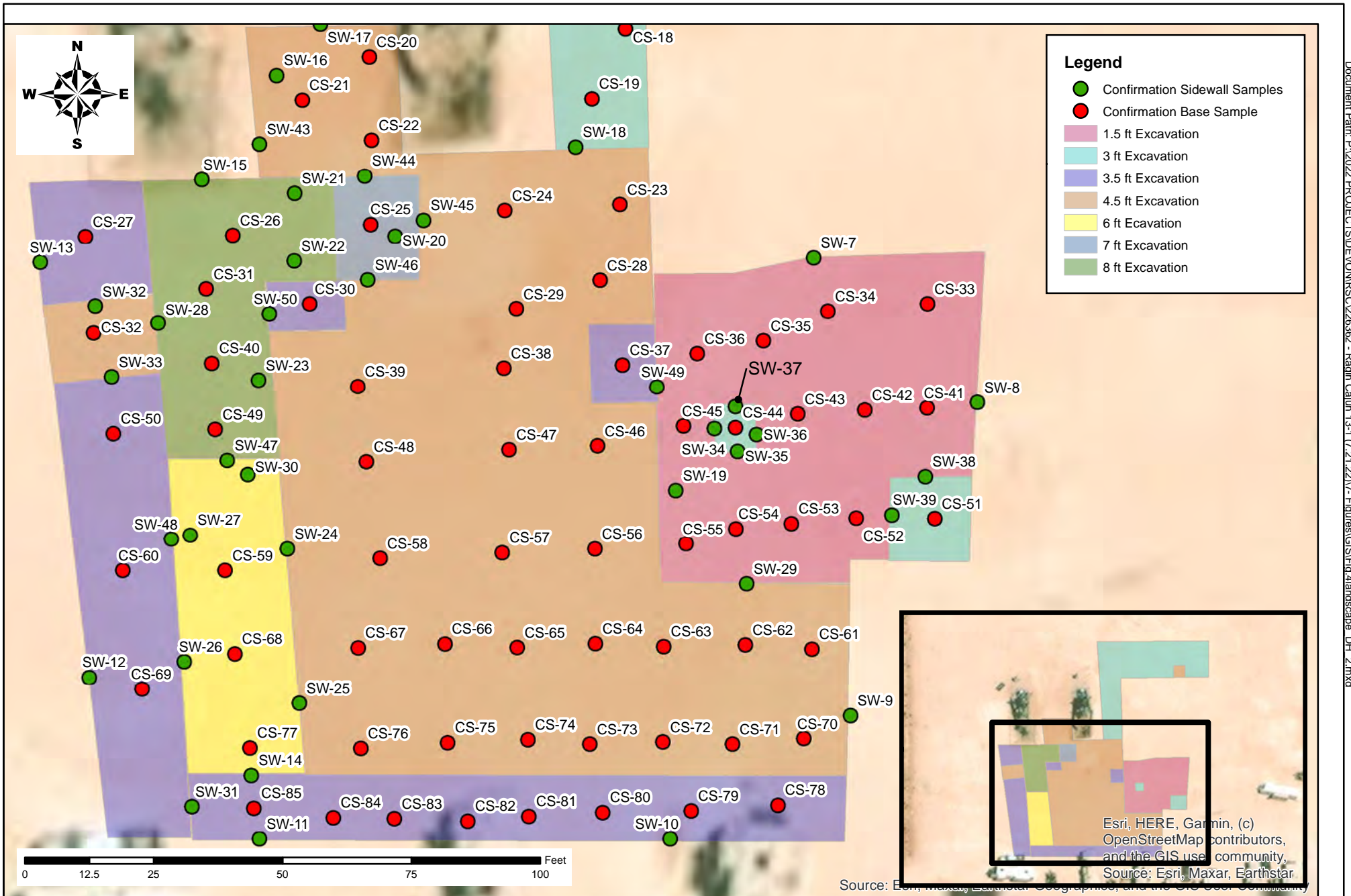
SHEET NUMBER

1 of 3



2 of 3	SHEET NUMBER	DRAWING NUMBER	<b>FIGURE 4</b> <b>CONFIRMATION SAMPLE MAP (NORTH)</b> <b>CLOSURE REPORT</b> <b>DEVON ENERGY PRODUCTION COMPANY</b> RAGIN CAJUN 13 FEDERAL LEA COUNTY, NEW MEXICO	SCALE: As Shown	Date: 5/8/2024	PROJECT #: 237700
				New Tech Global Environmental, LLC 911 Regional Park Drive Houston, Texas 77060 T - 281.872.9300 F - 281.872.4521 Web: www.ntgenvironmental.com		
<b>NOTES:</b> 1. Base Image: ESRI Maps & Data 2013 2. Map Projection: NAD 1983 UTM Zone 13N						





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3 of 3	SHEET NUMBER	DRAWING NUMBER	<b>CONFIRMATION SAMPLE MAP (NORTH)</b> <b>CLOSURE REPORT</b> <b>DEVON ENERGY PRODUCTION COMPANY</b> RAGIN CAJUN 13 FEDERAL LEA COUNTY, NEW MEXICO		<b>New Tech Global Environmental, LLC</b> 911 Regional Park Drive Houston, Texas 77060 T - 281.872.9300 F - 281.872.4521 Web: www.ntgenviromental.com	<b>NOTES:</b> 1. Base Image: ESRI Maps & Data 2013 2. Map Projection: NAD 1983 UTM Zone 13N
			SCALE: As Shown Date: 5/8/2024	PROJECT #: 237700		

**INITIAL C-141**

---

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

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

Nature and Volume of Release

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

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

Cause of Release



Incident ID	
District RP	
Facility ID	
Application ID	

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

## Initial Response

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

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Dale Woodall	Title: Env. Professional
Signature: Dale Woodall	Date: _____
email: dale.woodall@dvn.com	Telephone: 575-748-1838
<b><u>OCD Only</u></b>	
Received by: Shelly Wells	Date: 11/13/2023

Ragin Cajun 13-1  
7/21/2022

nAPP2220947571

<b>Spill Volume(Bbls) Calculator</b>	
<i>Inputs in blue, Outputs in red</i>	
Contaminated Soil measurement	
Area (square feet)	Depth(inches)
<u>3923</u>	<u>0.250</u>
Cubic Feet of Soil Impacted	<u>81.729</u>
Barrels of Soil Impacted	<u>14.57</u>
Soil Type	Sand
Barrels of Oil Assuming 100% Saturation	<u>2.91</u>
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	<u>2.91</u>
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
<u>1673</u>	<u>0.500</u>
Standing fluid	<u>12.426</u>
<b><u>Total fluids spilled</u></b>	<b><u>15.339</u></b>

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

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

CONDITIONS  
  
Action 284842

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 284842
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	11/13/2023

Incident ID	nAPP2220947571
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	nAPP2220947571
District RP	
Facility ID	
Application ID	

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

Printed Name: \_\_\_Dale Woodall\_\_\_\_\_ Title: \_\_\_Env. Professional\_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_12/05/23\_\_\_\_\_

email: \_\_\_dale.woodall@dm.com\_\_\_\_\_ Telephone: \_\_\_575-748-1838\_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	nAPP2220947571
District RP	
Facility ID	
Application ID	

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



Incident ID	nAPP2220947571
District RP	
Facility ID	
Application ID	

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist: Each of the following items must be included in the closure report.**

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: \_\_\_\_\_ Dale Woodall \_\_\_\_\_ Title: \_\_\_\_\_ Env. Professional \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_ 12/05/23 \_\_\_\_\_

email: \_\_\_\_\_ dale.woodall@dvn.com \_\_\_\_\_ Telephone: \_\_\_\_\_ 575-748-1838 \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

## **SITE CHARACTERIZATION INFORMATION**

---

## NMOCD Closure Criteria

Ragin Cajun 13-1

Site Information (19.15.29.11.A (2,3, & 4) NMAC)		Source/Notes
Depth to Groundwater ( ft bgs)	N/A	Office of the State Engineer (OSE)
Horizontal Distance from All Water Sources Within 0.5 mile (ft)	N/A	Office of the State Engineer (OSE)
Horizontal Distance to Nearest Significant Watercourse (ft)	N/A	United States Geological Survey (USGS)

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Depth to Groundwater (ft)		Closure Criteria (mg/kg)				
		Chloride*	TPH	GRO + DRO	BTEX	Benzene
< 50	X	600	100	--	50	10
51 - 100		10,000	2,500	1,000	50	10
>100		20,000	2,500	1,000	50	10
Surface Water	Yes/No	in yes, then				
<300 ft from a continuously flowing watercourse or other significant watercourse?	No	600	100		50	10
<200 ft from a lakebed, sinkhole, or playa lake?	No					
Water Well or Water Source						
<500 ft from a spring or a private, domestic fresh waster well used by less that 5 households for domestic or livestock purposes?	No					
<1,000 ft from a fresh water well or spring?	No					
Sensitive and Other Area						
<300 ft from an occupied permanent residence, school, hospital, institution or church?	No					
Within incorporated municipal boundaries or within a defined municipal fresh water well field?	No					
<100 ft from a wetland?	No					
Within an area overlying a subsurface mine?	No					
Within and unstable area?	No					
Within a 100 yr floodplain?	No					

\* - numerical limit or background, whichever is greater

## Ragin Cajun 13-1



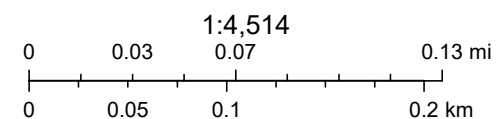
12/5/2023, 9:38:13 AM

Wells - Large Scale Karst Occurrence Potential

• Oil, Active      Low

PLSS Second Division

PLSS First Division



BLM, OCD, New Mexico Tech, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., USGS, OCD, Maxar,

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75>: New Mexico Oil Conservation Division



# OSE POD Locations Map




8/8/2023, 2:17:45 PM

 OSE District Boundary

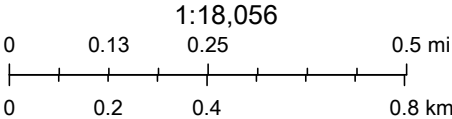
 NHD Flowlines

Water Right Regulations

 Stream River

 Closure Area

 SiteBoundaries

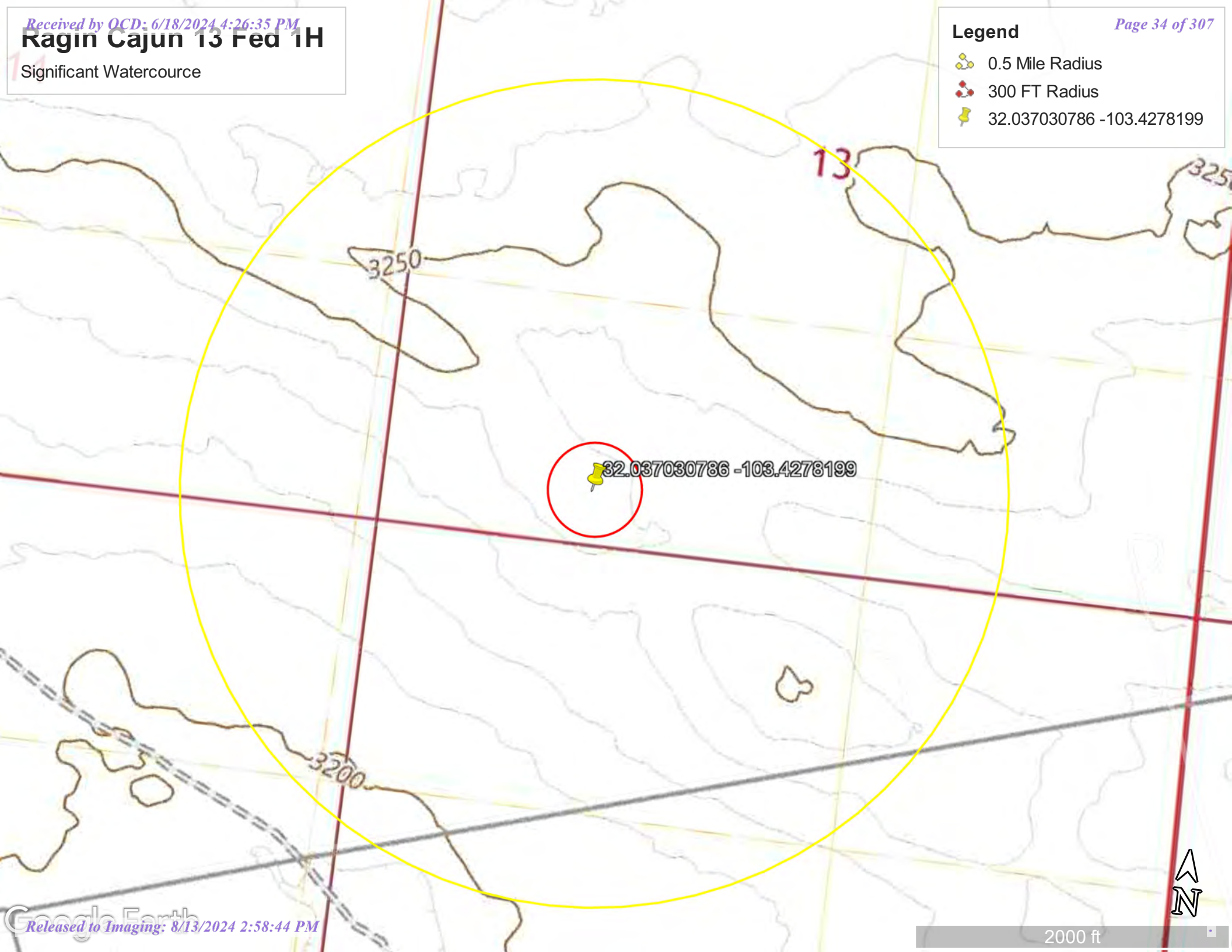


Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management,  
Esri, HERE, Garmin, iPC, Maxar

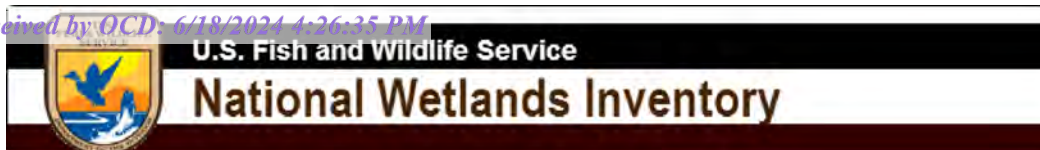
Significant Watercourse

Legend

- 0.5 Mile Radius
- 300 FT Radius
- 32.037030786 -103.4278199







## Ragin Cajun 13-1



August 8, 2023

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

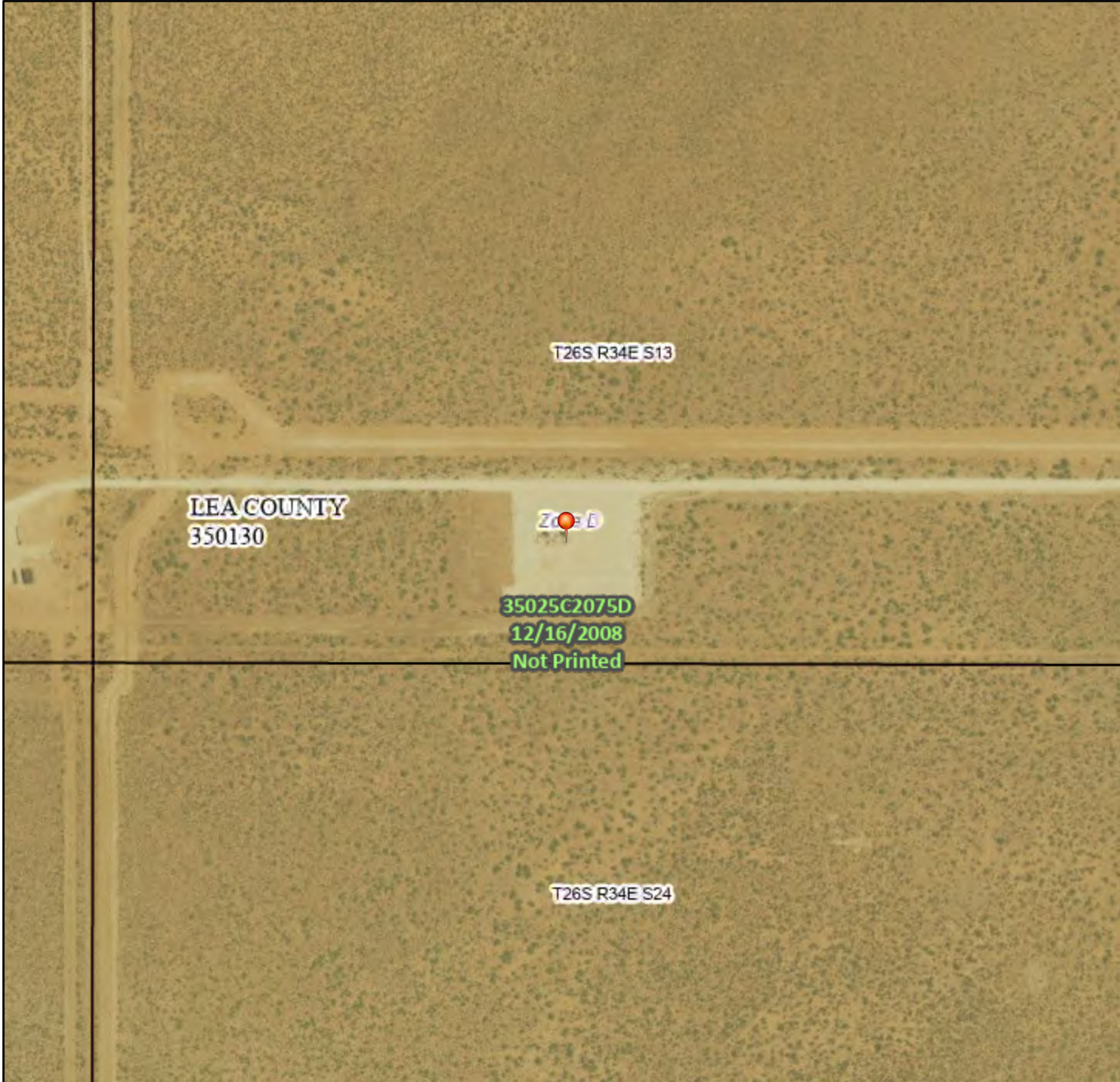
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



# National Flood Hazard Layer FIRMette



103°25'59"W 32°2'29"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

103°25'21"W 32°1'58"N

Released to Imaging: 8/13/2024 2:38:44 PM

Basemap Imagery Source: USGS National Map 2023

## Legend

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

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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **8/8/2023 at 3:16 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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





## National Water Information System: Mapper



## **PHOTOGRAPHIC LOG**

---

## PHOTOGRAPHIC LOG

### Devon Energy Production Company

**Photograph No. 1**

**Facility:** Ragin Cajun 13 Federal #001

**County:** Lea County, New Mexico

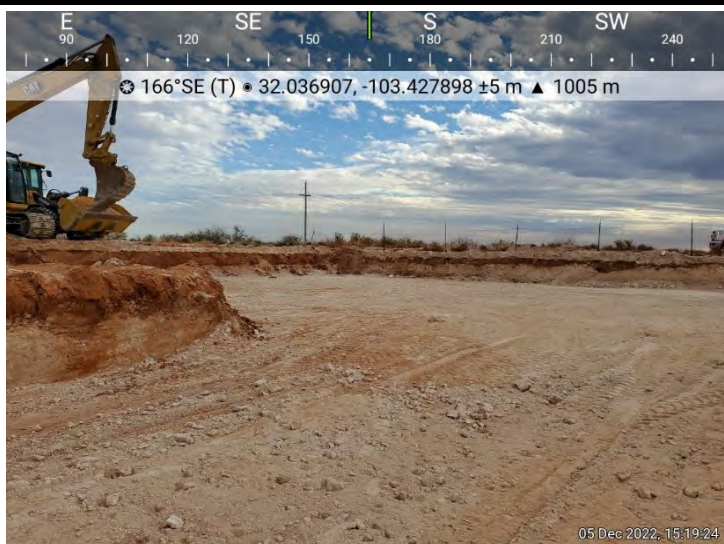
**Description:**  
View of Excavation.

**Photograph No. 2**

**Facility:** Ragin Cajun 13 Federal #001

**County:** Lea County, New Mexico

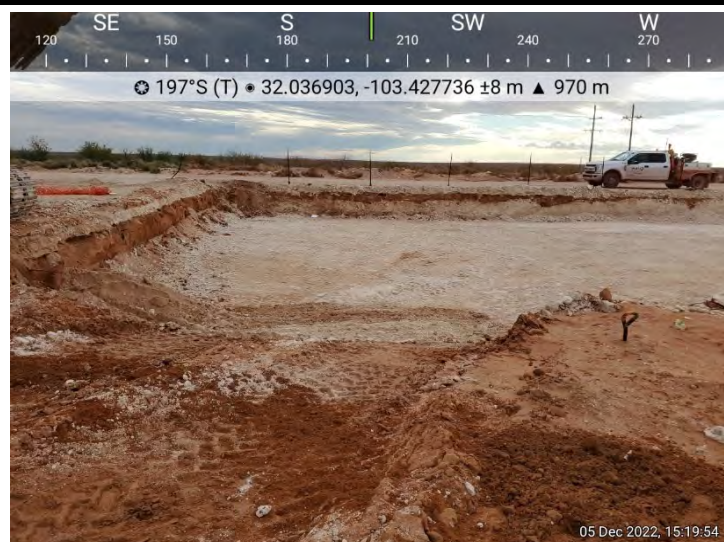
**Description:**  
View of Excavation.

**Photograph No. 3**

**Facility:** Ragin Cajun 13 Federal #001

**County:** Lea County, New Mexico

**Description:**  
View of Excavation.





## PHOTOGRAPHIC LOG

### Devon Energy Production Company

**Photograph No. 4**

**Facility:** Ragin Cajun 13 Federal #001

**County:** Lea County, New Mexico

**Description:**  
View of Excavation.

**Photograph No. 5**

**Facility:** Ragin Cajun 13 Federal #001

**County:** Lea County, New Mexico

**Description:**  
View of Excavation.

**Photograph No. 6**

**Facility:** Ragin Cajun 13 Federal #001

**County:** Lea County, New Mexico

**Description:**  
View of Excavation.



## PHOTOGRAPHIC LOG

### Devon Energy Production Company

**Photograph No. 7**

**Facility:** Ragin Cajun 13 Federal #001

**County:** Lea County, New Mexico

**Description:**  
View of Excavation.

**Photograph No. 8**

**Facility:** Ragin Cajun 13 Federal #001

**County:** Lea County, New Mexico

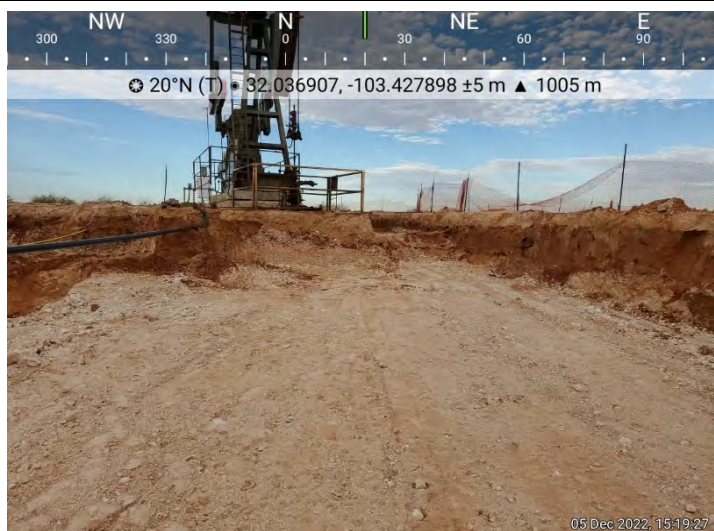
**Description:**  
View of Excavation.

**Photograph No. 9**

**Facility:** Ragin Cajun 13 Federal #001

**County:** Lea County, New Mexico

**Description:**  
View of Excavation.





## **LABORATORY REPORTS AND CHAIN-OF-CUSTODY**

---



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 03, 2022

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: RAGIN CAJUN 13 - 1

Enclosed are the results of analyses for samples received by the laboratory on 09/29/22 14:58.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/29/2022  
 Reported: 10/03/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226038  
 Project Location: DEVON - LEA CO NM

Sampling Date: 09/27/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 1 (H224539-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2022	ND	2.07	103	2.00	8.04	
Toluene*	<0.050	0.050	09/30/2022	ND	2.22	111	2.00	7.64	
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	2.07	103	2.00	7.05	
Total Xylenes*	<0.150	0.150	09/30/2022	ND	6.24	104	6.00	7.83	
Total BTX	<0.300	0.300	09/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/30/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	201	101	200	0.734	
DRO >C10-C28*	37.9	10.0	09/30/2022	ND	190	94.8	200	0.392	
EXT DRO >C28-C36	19.9	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 78.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.6 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/29/2022  
 Reported: 10/03/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226038  
 Project Location: DEVON - LEA CO NM

Sampling Date: 09/27/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 2 (H224539-02)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2022	ND	2.07	103	2.00	8.04	
Toluene*	<0.050	0.050	09/30/2022	ND	2.22	111	2.00	7.64	
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	2.07	103	2.00	7.05	
Total Xylenes*	<0.150	0.150	09/30/2022	ND	6.24	104	6.00	7.83	
Total BTEx	<0.300	0.300	09/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	09/30/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	201	101	200	0.734	
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	190	94.8	200	0.392	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 69.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.6 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/29/2022  
 Reported: 10/03/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226038  
 Project Location: DEVON - LEA CO NM

Sampling Date: 09/27/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 3 (H224539-03)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2022	ND	2.07	103	2.00	8.04	
Toluene*	<0.050	0.050	09/30/2022	ND	2.22	111	2.00	7.64	
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	2.07	103	2.00	7.05	
Total Xylenes*	<0.150	0.150	09/30/2022	ND	6.24	104	6.00	7.83	
Total BTEx	<0.300	0.300	09/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	09/30/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	201	101	200	0.734	
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	190	94.8	200	0.392	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 79.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.5 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/29/2022  
 Reported: 10/03/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226038  
 Project Location: DEVON - LEA CO NM

Sampling Date: 09/27/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 4 (H224539-04)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2022	ND	2.07	103	2.00	8.04	
Toluene*	<0.050	0.050	09/30/2022	ND	2.22	111	2.00	7.64	
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	2.07	103	2.00	7.05	
Total Xylenes*	<0.150	0.150	09/30/2022	ND	6.24	104	6.00	7.83	
Total BTEx	<0.300	0.300	09/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/30/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	201	101	200	0.734	
DRO >C10-C28*	25.6	10.0	09/30/2022	ND	190	94.8	200	0.392	
EXT DRO >C28-C36	12.5	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 57.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 69.1 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/29/2022  
 Reported: 10/03/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226038  
 Project Location: DEVON - LEA CO NM

Sampling Date: 09/27/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 5 (H224539-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2022	ND	2.07	103	2.00	8.04		
Toluene*	<0.050	0.050	09/30/2022	ND	2.22	111	2.00	7.64		
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	2.07	103	2.00	7.05		
Total Xylenes*	<0.150	0.150	09/30/2022	ND	6.24	104	6.00	7.83		
Total BTEx	<0.300	0.300	09/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/30/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	201	101	200	0.734	
DRO >C10-C28*	25.1	10.0	09/30/2022	ND	190	94.8	200	0.392	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 81.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.2 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/29/2022  
 Reported: 10/03/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226038  
 Project Location: DEVON - LEA CO NM

Sampling Date: 09/27/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 6 (H224539-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2022	ND	2.07	103	2.00	8.04		
Toluene*	<0.050	0.050	09/30/2022	ND	2.22	111	2.00	7.64		
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	2.07	103	2.00	7.05		
Total Xylenes*	<0.150	0.150	09/30/2022	ND	6.24	104	6.00	7.83		
Total BTEx	<0.300	0.300	09/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/30/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	201	101	200	0.734	
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	190	94.8	200	0.392	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 83.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/29/2022  
 Reported: 10/03/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226038  
 Project Location: DEVON - LEA CO NM

Sampling Date: 09/27/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 7 (H224539-07)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2022	ND	2.07	103	2.00	8.04	
Toluene*	<0.050	0.050	09/30/2022	ND	2.22	111	2.00	7.64	
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	2.07	103	2.00	7.05	
Total Xylenes*	<0.150	0.150	09/30/2022	ND	6.24	104	6.00	7.83	
Total BTEx	<0.300	0.300	09/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	09/30/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	201	101	200	0.734	
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	190	94.8	200	0.392	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 81.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/29/2022  
 Reported: 10/03/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226038  
 Project Location: DEVON - LEA CO NM

Sampling Date: 09/27/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 8 (H224539-08)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2022	ND	2.07	103	2.00	8.04	
Toluene*	<0.050	0.050	09/30/2022	ND	2.22	111	2.00	7.64	
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	2.07	103	2.00	7.05	
Total Xylenes*	<0.150	0.150	09/30/2022	ND	6.24	104	6.00	7.83	
Total BTEx	<0.300	0.300	09/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	09/30/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	201	101	200	0.734	
DRO >C10-C28*	27.4	10.0	09/30/2022	ND	190	94.8	200	0.392	
EXT DRO >C28-C36	10.8	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 63.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.8 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/29/2022  
 Reported: 10/03/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226038  
 Project Location: DEVON - LEA CO NM

Sampling Date: 09/27/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 9 (H224539-09)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2022	ND	2.07	103	2.00	8.04		
Toluene*	<0.050	0.050	10/01/2022	ND	2.22	111	2.00	7.64		
Ethylbenzene*	<0.050	0.050	10/01/2022	ND	2.07	103	2.00	7.05		
Total Xylenes*	<0.150	0.150	10/01/2022	ND	6.24	104	6.00	7.83		
Total BTEx	<0.300	0.300	10/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	09/30/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	201	101	200	0.734	
DRO >C10-C28*	42.0	10.0	09/30/2022	ND	190	94.8	200	0.392	
EXT DRO >C28-C36	16.8	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 78.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/29/2022  
 Reported: 10/03/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226038  
 Project Location: DEVON - LEA CO NM

Sampling Date: 09/27/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 10 (H224539-10)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2022	ND	2.07	103	2.00	8.04		
Toluene*	<0.050	0.050	10/01/2022	ND	2.22	111	2.00	7.64		
Ethylbenzene*	<0.050	0.050	10/01/2022	ND	2.07	103	2.00	7.05		
Total Xylenes*	<0.150	0.150	10/01/2022	ND	6.24	104	6.00	7.83		
Total BTEx	<0.300	0.300	10/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/30/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	201	101	200	0.734	
DRO >C10-C28*	46.3	10.0	09/30/2022	ND	190	94.8	200	0.392	
EXT DRO >C28-C36	18.8	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 82.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/29/2022  
 Reported: 10/03/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226038  
 Project Location: DEVON - LEA CO NM

Sampling Date: 09/29/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 1 (1-1.5) (H224539-11)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2022	ND	2.07	103	2.00	8.04		
Toluene*	<0.050	0.050	10/01/2022	ND	2.22	111	2.00	7.64		
Ethylbenzene*	<0.050	0.050	10/01/2022	ND	2.07	103	2.00	7.05		
Total Xylenes*	<0.150	0.150	10/01/2022	ND	6.24	104	6.00	7.83		
Total BTEx	<0.300	0.300	10/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	09/30/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	201	101	200	0.734	
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	190	94.8	200	0.392	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 88.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/29/2022  
 Reported: 10/03/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226038  
 Project Location: DEVON - LEA CO NM

Sampling Date: 09/29/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 1 (2-2.5) (H224539-12)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2022	ND	2.07	103	2.00	8.04		
Toluene*	<0.050	0.050	10/01/2022	ND	2.22	111	2.00	7.64		
Ethylbenzene*	<0.050	0.050	10/01/2022	ND	2.07	103	2.00	7.05		
Total Xylenes*	<0.150	0.150	10/01/2022	ND	6.24	104	6.00	7.83		
Total BTEx	<0.300	0.300	10/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	928	16.0	09/30/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	201	101	200	0.734	
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	190	94.8	200	0.392	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 89.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/29/2022  
 Reported: 10/03/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226038  
 Project Location: DEVON - LEA CO NM

Sampling Date: 09/29/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 2 (1-1.5) (H224539-13)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2022	ND	2.07	103	2.00	8.04	
Toluene*	<0.050	0.050	10/01/2022	ND	2.22	111	2.00	7.64	
Ethylbenzene*	<0.050	0.050	10/01/2022	ND	2.07	103	2.00	7.05	
Total Xylenes*	<0.150	0.150	10/01/2022	ND	6.24	104	6.00	7.83	
Total BTX	<0.300	0.300	10/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	09/30/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	201	101	200	0.734	
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	190	94.8	200	0.392	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 85.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/29/2022  
 Reported: 10/03/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226038  
 Project Location: DEVON - LEA CO NM

Sampling Date: 09/29/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 2 (2-2.5) (H224539-14)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2022	ND	2.07	103	2.00	8.04		
Toluene*	<0.050	0.050	10/01/2022	ND	2.22	111	2.00	7.64		
Ethylbenzene*	<0.050	0.050	10/01/2022	ND	2.07	103	2.00	7.05		
Total Xylenes*	<0.150	0.150	10/01/2022	ND	6.24	104	6.00	7.83		
Total BTX	<0.300	0.300	10/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3840	16.0	09/30/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	201	101	200	0.734	
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	190	94.8	200	0.392	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 78.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/29/2022  
 Reported: 10/03/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226038  
 Project Location: DEVON - LEA CO NM

Sampling Date: 09/29/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 3 (1-1.5) (H224539-15)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2022	ND	1.96	98.0	2.00	7.83		
Toluene*	<0.050	0.050	09/30/2022	ND	1.91	95.5	2.00	8.46		
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	1.89	94.7	2.00	7.83		
Total Xylenes*	<0.150	0.150	09/30/2022	ND	5.78	96.3	6.00	7.50		
Total BTEx	<0.300	0.300	09/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	09/30/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	201	101	200	0.734	
DRO >C10-C28*	22.6	10.0	09/30/2022	ND	190	94.8	200	0.392	
EXT DRO >C28-C36	17.5	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 90.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 113 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/29/2022  
 Reported: 10/03/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226038  
 Project Location: DEVON - LEA CO NM

Sampling Date: 09/29/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 3 (2-2.5) (H224539-16)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2022	ND	1.96	98.0	2.00	7.83		
Toluene*	<0.050	0.050	09/30/2022	ND	1.91	95.5	2.00	8.46		
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	1.89	94.7	2.00	7.83		
Total Xylenes*	<0.150	0.150	09/30/2022	ND	5.78	96.3	6.00	7.50		
Total BTEX	<0.300	0.300	09/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	09/30/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	201	101	200	0.734	
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	190	94.8	200	0.392	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 89.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/29/2022  
 Reported: 10/03/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226038  
 Project Location: DEVON - LEA CO NM

Sampling Date: 09/27/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 3 (3-3.5) (H224539-17)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2022	ND	1.96	98.0	2.00	7.83		
Toluene*	<0.050	0.050	09/30/2022	ND	1.91	95.5	2.00	8.46		
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	1.89	94.7	2.00	7.83		
Total Xylenes*	<0.150	0.150	09/30/2022	ND	5.78	96.3	6.00	7.50		
Total BTEx	<0.300	0.300	09/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3960	16.0	09/30/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	201	101	200	0.734	
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	190	94.8	200	0.392	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 84.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/29/2022  
 Reported: 10/03/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226038  
 Project Location: DEVON - LEA CO NM

Sampling Date: 09/29/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 4 (1-1.5) (H224539-18)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2022	ND	1.96	98.0	2.00	7.83		
Toluene*	<0.050	0.050	09/30/2022	ND	1.91	95.5	2.00	8.46		
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	1.89	94.7	2.00	7.83		
Total Xylenes*	<0.150	0.150	09/30/2022	ND	5.78	96.3	6.00	7.50		
Total BTEX	<0.300	0.300	09/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/30/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	201	101	200	0.734	
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	190	94.8	200	0.392	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 90.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/29/2022  
 Reported: 10/03/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226038  
 Project Location: DEVON - LEA CO NM

Sampling Date: 09/29/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 5 (2-2.5) (H224539-19)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2022	ND	1.96	98.0	2.00	7.83		
Toluene*	<0.050	0.050	09/30/2022	ND	1.91	95.5	2.00	8.46		
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	1.89	94.7	2.00	7.83		
Total Xylenes*	<0.150	0.150	09/30/2022	ND	5.78	96.3	6.00	7.50		
Total BTEX	<0.300	0.300	09/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/30/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	201	101	200	0.734	
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	190	94.8	200	0.392	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 84.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/29/2022  
 Reported: 10/03/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226038  
 Project Location: DEVON - LEA CO NM

Sampling Date: 09/29/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 6 (3-3.5) (H224539-20)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2022	ND	1.96	98.0	2.00	7.83		
Toluene*	<0.050	0.050	09/30/2022	ND	1.91	95.5	2.00	8.46		
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	1.89	94.7	2.00	7.83		
Total Xylenes*	<0.150	0.150	09/30/2022	ND	5.78	96.3	6.00	7.50		
Total BTEx	<0.300	0.300	09/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/30/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	201	101	200	0.734	
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	190	94.8	200	0.392	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 96.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager

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---

### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



## Chain of Custody

Work Order No: 11224539-1-0

Page 1 of 2

Page 23 of 24

Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	Wesley.Mathews@dvn.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:

Project Name:		Turn Around		ANALYSIS REQUEST										Preservative Codes				
Project Number:	226038	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code													None: NO	DI Water: H <sub>2</sub> O	
Project Location:	Eddy Co, NM	Due Date:	48Hr	Parameters	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	HOLD								Cool: Cool	MeOH: Me	
Sampler's Name:	Jordan Tyner	TAT starts the day received by the lab, if received by 4:30pm														HCL: HC	HNO <sub>3</sub> : HN	
PO #:	21053206															H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na	
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wet Ice:						Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>								H <sub>3</sub> PO <sub>4</sub> : HP	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	113													NaHSO <sub>4</sub> : NABIS		
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Correction Factor:	-0.6°C									Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>						
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Temperature Reading:	38°C									Zn Acetate+NaOH: Zn						
Total Containers:	20	Corrected Temperature:	3.2°C									NaOH+Ascorbic Acid: SAPC						
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments	
H-1	9/27/2022		X		Comp	1	X	X	X									
H-2	9/27/2022		X		Comp	1	X	X	X									
H-3	9/27/2022		X		Comp	1	X	X	X									
H-4	9/27/2022		X		Comp	1	X	X	X									
H-5	9/27/2022		X		Comp	1	X	X	X									
H-6	9/27/2022		X		Comp	1	X	X	X									
H-7	9/27/2022		X		Comp	1	X	X	X									
H-8	9/27/2022		X		Comp	1	X	X	X									
H-9	9/27/2022		X		Comp	1	X	X	X									
H-10	9/27/2022		X		Comp	1	X	X	X									

Additional Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		9/27/22 1458	2		
3			4		
5			6		



## Chain of Custody

Work Order No: H224539-1Page 2 of 2

Page 24 of 24

Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	Wesley.Mathews@devon.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name:		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes				
Project Number:		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush															None: NO DI Water: H <sub>2</sub> O				
Project Location		Due Date:		Parameters													Cool: Cool MeOH: Me				
Sampler's Name:		48Hr															HCL: HC HNO <sub>3</sub> : HN				
PO #:		TAT starts the day received by the lab, if received by 4:30pm															H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na				
21053206																	H <sub>3</sub> PO <sub>4</sub> : HP				
																	NaHSO <sub>4</sub> : NABIS				
SAMPLE RECEIPT		Temp Blank:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	
Received Intact:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:		113														Zn Acetate+NaOH: Zn	
Cooler Custody Seals:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Correction Factor:		-0.6°														NaOH+Ascorbic Acid: SAPC	
Sample Custody Seals:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Temperature Reading:		3.8°															
Total Containers:		20		Corrected Temperature:		3.2°															
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
S-1 (1-1.5)		9/29/2022		X		Comp	1	X	X	X											
S-1 (2-2.5)		9/29/2022		X		Comp	1	X	X	X											
S-2 (1-1.5)		9/29/2022		X		Comp	1	X	X	X											
S-2 (2-2.5)		9/29/2022		X		Comp	1	X	X	X											
S-3 (1-1.5)		9/29/2022		X		Comp	1	X	X	X											
S-3 (2-2.5)		9/29/2022		X		Comp	1	X	X	X											
S-3 (3-3.5)		9/29/2022		X		Comp	1	X	X	X											
S-4 (1-1.5)		9/29/2022		X		Comp	1	X	X	X											
S-5 (2-2.5)		9/29/2022		X		Comp	1	X	X	X											
S-6 (3-3.5)		9/29/2022		X		Comp	1	X	X	X											

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	<i>[Signature]</i>	9/29-22 1458	2		
3			4		
5			6		

Revised Date 05/01/2020 Rev. 2020.1



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 31, 2022

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: RAGIN CAJUN 13 - 1

Enclosed are the results of analyses for samples received by the laboratory on 10/27/22 11:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' at the beginning.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 10/27/2022  
 Reported: 10/31/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 10/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TP - 1 7' (H225066-01)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/30/2022	ND	1.88	94.1	2.00	4.67	
Toluene*	<0.025	0.025	10/30/2022	ND	1.82	91.2	2.00	0.572	
Ethylbenzene*	<0.025	0.025	10/30/2022	ND	1.87	93.7	2.00	0.643	
Total Xylenes*	<0.075	0.075	10/30/2022	ND	5.88	98.0	6.00	3.00	
Total BTEX	<0.150	0.150	10/30/2022	ND					

Surrogate: Dibromofluoromethane 94.6 % 83.7-114

Surrogate: Toluene-d8 95.6 % 95.3-107

Surrogate: 4-Bromofluorobenzene 98.5 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	10/27/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	232	116	200	3.13	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	226	113	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 120 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 10/27/2022  
 Reported: 10/31/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 10/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TP - 1 8' (H225066-02)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/30/2022	ND	1.88	94.1	2.00	4.67	
Toluene*	<0.025	0.025	10/30/2022	ND	1.82	91.2	2.00	0.572	
Ethylbenzene*	<0.025	0.025	10/30/2022	ND	1.87	93.7	2.00	0.643	
Total Xylenes*	<0.075	0.075	10/30/2022	ND	5.88	98.0	6.00	3.00	
Total BTEX	<0.150	0.150	10/30/2022	ND					

Surrogate: Dibromofluoromethane 98.0 % 83.7-114  
 Surrogate: Toluene-d8 92.7 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 98.8 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	10/27/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	232	116	200	3.13	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	226	113	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 110 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 129 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 10/27/2022  
 Reported: 10/31/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 10/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TP - 2 6' (H225066-03)**

BTX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	10/30/2022	ND	1.88	94.1	2.00	4.67		
Toluene*	<0.025	0.025	10/30/2022	ND	1.82	91.2	2.00	0.572		
Ethylbenzene*	<0.025	0.025	10/30/2022	ND	1.87	93.7	2.00	0.643		
Total Xylenes*	<0.075	0.075	10/30/2022	ND	5.88	98.0	6.00	3.00		
Total BTX	<0.150	0.150	10/30/2022	ND						

Surrogate: Dibromofluoromethane 95.9 % 83.7-114  
 Surrogate: Toluene-d8 94.5 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 98.2 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	10/27/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	232	116	200	3.13	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	226	113	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 120 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 10/27/2022  
 Reported: 10/31/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 10/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TP - 3 6' (H225066-04)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/30/2022	ND	1.88	94.1	2.00	4.67	
Toluene*	<0.025	0.025	10/30/2022	ND	1.82	91.2	2.00	0.572	
Ethylbenzene*	<0.025	0.025	10/30/2022	ND	1.87	93.7	2.00	0.643	
Total Xylenes*	<0.075	0.075	10/30/2022	ND	5.88	98.0	6.00	3.00	
Total BTEX	<0.150	0.150	10/30/2022	ND					

Surrogate: Dibromofluoromethane 96.4 % 83.7-114  
 Surrogate: Toluene-d8 93.7 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 98.4 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	10/27/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	232	116	200	3.13	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	226	113	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 108 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 126 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 10/27/2022  
 Reported: 10/31/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 10/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TP - 3 7' (H225066-05)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/30/2022	ND	1.88	94.1	2.00	4.67	
Toluene*	<0.025	0.025	10/30/2022	ND	1.82	91.2	2.00	0.572	
Ethylbenzene*	<0.025	0.025	10/30/2022	ND	1.87	93.7	2.00	0.643	
Total Xylenes*	<0.075	0.075	10/30/2022	ND	5.88	98.0	6.00	3.00	
Total BTEX	<0.150	0.150	10/30/2022	ND					

Surrogate: Dibromofluoromethane 99.8 % 83.7-114  
 Surrogate: Toluene-d8 91.5 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 98.8 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/27/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	232	116	200	3.13	
DRO >C10-C28*	35.9	10.0	10/27/2022	ND	226	113	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 129 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager




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Notes and Definitions

- S-05            The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
- QM-07        The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND            Analyte NOT DETECTED at or above the reporting limit
- RPD          Relative Percent Difference
- \*\*            Samples not received at proper temperature of 6°C or below.
- \*\*\*          Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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\_\_\_\_\_  
Celey D. Keene, Lab Director/Quality Manager

## Chain of Custody

Work Order No: H225066Page 1 of 1

Page 8 of 8

Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	Wesley.Mathews@devon.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name:		<u>Ragin Cagn 13-1</u>		Turn Around				ANALYSIS REQUEST												Preservative Codes							
Project Number:		<u>226363</u>		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush		Pres. Code														None: NO DI Water: H <sub>2</sub> O							
Project Location:		<u>Lea 10, NM</u>		Due Date:		<u>Same Day</u>														Cool: Cool MeOH: Me							
Sampler's Name:		<u>Kenny Han</u>		TAT starts the day received by the lab, if received by 4:30pm																HCL: HC HNO <sub>3</sub> : HN							
PO #:		<u>21053206</u>																		H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na							
SAMPLE RECEIPT		Temp Blank:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wet Ice:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														H <sub>3</sub> PO <sub>4</sub> : HP							
Received Intact:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:		<u>113</u>														NaHSO <sub>4</sub> : NABIS							
Cooler Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Correction Factor:		<u>-0.6</u>														Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>							
Sample Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Temperature Reading:		<u>23.2</u>														Zn Acetate+NaOH: Zn							
Total Containers:		<u>5</u>		Corrected Temperature:		<u>22.6</u>														NaOH+Ascorbic Acid: SAPC							
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont														Sample Comments	
TP-1		7'		10/27		8:30am				G																	
TP-2		8'																									
TP-2		6'																									
TP-3		6'																									
TP-3		7'																									

Additional Comments:

Same Day - CL, TPH + 3day - BTEX

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <u>[Signature]</u>	<u>[Signature]</u>	<u>10-27-22 1118</u>	2		
3			4		
5			6		



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 08, 2022

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: RAGIN CAJUN 13 - 1

Enclosed are the results of analyses for samples received by the laboratory on 11/04/22 12:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 1 (3') (H225227-01)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2022	ND	1.73	86.6	2.00	11.3		
Toluene*	<0.050	0.050	11/04/2022	ND	1.78	89.1	2.00	13.0		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	1.77	88.7	2.00	12.5		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	5.35	89.2	6.00	13.3		
Total BTX	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	11/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2022	ND	219	109	200	21.2	
DRO >C10-C28*	<10.0	10.0	11/04/2022	ND	241	120	200	31.4	
EXT DRO >C28-C36	<10.0	10.0	11/04/2022	ND					

Surrogate: 1-Chlorooctane 73.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.5 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 2 (3') (H225227-02)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2022	ND	1.73	86.6	2.00	11.3		
Toluene*	<0.050	0.050	11/04/2022	ND	1.78	89.1	2.00	13.0		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	1.77	88.7	2.00	12.5		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	5.35	89.2	6.00	13.3		
Total BTEx	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	11/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2022	ND	219	109	200	21.2	
DRO >C10-C28*	41.1	10.0	11/04/2022	ND	241	120	200	31.4	
EXT DRO >C28-C36	<10.0	10.0	11/04/2022	ND					

Surrogate: 1-Chlorooctane 68.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.7 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 3 (3') (H225227-03)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2022	ND	1.73	86.6	2.00	11.3		
Toluene*	<0.050	0.050	11/04/2022	ND	1.78	89.1	2.00	13.0		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	1.77	88.7	2.00	12.5		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	5.35	89.2	6.00	13.3		
Total BTEX	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	11/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2022	ND	219	109	200	21.2	
DRO >C10-C28*	<10.0	10.0	11/04/2022	ND	241	120	200	31.4	
EXT DRO >C28-C36	<10.0	10.0	11/04/2022	ND					

Surrogate: 1-Chlorooctane 85.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 4 (3') (H225227-04)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2022	ND	1.73	86.6	2.00	11.3		
Toluene*	<0.050	0.050	11/05/2022	ND	1.78	89.1	2.00	13.0		
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	1.77	88.7	2.00	12.5		
Total Xylenes*	<0.150	0.150	11/05/2022	ND	5.35	89.2	6.00	13.3		
Total BTEX	<0.300	0.300	11/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2022	ND	219	109	200	21.2	
DRO >C10-C28*	<10.0	10.0	11/04/2022	ND	241	120	200	31.4	
EXT DRO >C28-C36	<10.0	10.0	11/04/2022	ND					

Surrogate: 1-Chlorooctane 76.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 5 (3') (H225227-05)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2022	ND	1.73	86.6	2.00	11.3		
Toluene*	<0.050	0.050	11/05/2022	ND	1.78	89.1	2.00	13.0		
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	1.77	88.7	2.00	12.5		
Total Xylenes*	<0.150	0.150	11/05/2022	ND	5.35	89.2	6.00	13.3		
Total BTEx	<0.300	0.300	11/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2022	ND	219	109	200	21.2	
DRO >C10-C28*	30.9	10.0	11/05/2022	ND	241	120	200	31.4	
EXT DRO >C28-C36	<10.0	10.0	11/05/2022	ND					

Surrogate: 1-Chlorooctane 85.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 6 (3') (H225227-06)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2022	ND	1.73	86.6	2.00	11.3		
Toluene*	<0.050	0.050	11/05/2022	ND	1.78	89.1	2.00	13.0		
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	1.77	88.7	2.00	12.5		
Total Xylenes*	<0.150	0.150	11/05/2022	ND	5.35	89.2	6.00	13.3		
Total BTEX	<0.300	0.300	11/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2022	ND	219	109	200	21.2	
DRO >C10-C28*	<10.0	10.0	11/05/2022	ND	241	120	200	31.4	
EXT DRO >C28-C36	<10.0	10.0	11/05/2022	ND					

Surrogate: 1-Chlorooctane 93.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 7 (3') (H225227-07)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2022	ND	1.73	86.6	2.00	11.3		
Toluene*	<0.050	0.050	11/05/2022	ND	1.78	89.1	2.00	13.0		
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	1.77	88.7	2.00	12.5		
Total Xylenes*	<0.150	0.150	11/05/2022	ND	5.35	89.2	6.00	13.3		
Total BTEx	<0.300	0.300	11/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	11/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2022	ND	219	109	200	21.2	
DRO >C10-C28*	<10.0	10.0	11/05/2022	ND	241	120	200	31.4	
EXT DRO >C28-C36	<10.0	10.0	11/05/2022	ND					

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 119 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 8 (3') (H225227-08)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2022	ND	1.73	86.6	2.00	11.3		
Toluene*	<0.050	0.050	11/05/2022	ND	1.78	89.1	2.00	13.0		
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	1.77	88.7	2.00	12.5		
Total Xylenes*	<0.150	0.150	11/05/2022	ND	5.35	89.2	6.00	13.3		
Total BTEx	<0.300	0.300	11/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2022	ND	219	109	200	21.2	
DRO >C10-C28*	<10.0	10.0	11/05/2022	ND	241	120	200	31.4	
EXT DRO >C28-C36	<10.0	10.0	11/05/2022	ND					

Surrogate: 1-Chlorooctane 86.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 9 (3') (H225227-09)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2022	ND	1.73	86.6	2.00	11.3		
Toluene*	<0.050	0.050	11/05/2022	ND	1.78	89.1	2.00	13.0		
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	1.77	88.7	2.00	12.5		
Total Xylenes*	<0.150	0.150	11/05/2022	ND	5.35	89.2	6.00	13.3		
Total BTEX	<0.300	0.300	11/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	11/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2022	ND	219	109	200	21.2	
DRO >C10-C28*	<10.0	10.0	11/05/2022	ND	241	120	200	31.4	
EXT DRO >C28-C36	<10.0	10.0	11/05/2022	ND					

Surrogate: 1-Chlorooctane 96.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 10 (3') (H225227-10)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2022	ND	1.73	86.6	2.00	11.3		
Toluene*	<0.050	0.050	11/05/2022	ND	1.78	89.1	2.00	13.0		
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	1.77	88.7	2.00	12.5		
Total Xylenes*	<0.150	0.150	11/05/2022	ND	5.35	89.2	6.00	13.3		
Total BTEx	<0.300	0.300	11/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	11/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2022	ND	219	109	200	21.2	
DRO >C10-C28*	<10.0	10.0	11/05/2022	ND	241	120	200	31.4	
EXT DRO >C28-C36	<10.0	10.0	11/05/2022	ND					

Surrogate: 1-Chlorooctane 87.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 11 (3') (H225227-11)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2022	ND	1.73	86.6	2.00	11.3		
Toluene*	<0.050	0.050	11/05/2022	ND	1.78	89.1	2.00	13.0		
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	1.77	88.7	2.00	12.5		
Total Xylenes*	<0.150	0.150	11/05/2022	ND	5.35	89.2	6.00	13.3		
Total BTEx	<0.300	0.300	11/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	11/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2022	ND	219	109	200	21.2	
DRO >C10-C28*	<10.0	10.0	11/05/2022	ND	241	120	200	31.4	
EXT DRO >C28-C36	<10.0	10.0	11/05/2022	ND					

Surrogate: 1-Chlorooctane 99.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 12 (3') (H225227-12)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2022	ND	1.73	86.6	2.00	11.3		
Toluene*	<0.050	0.050	11/05/2022	ND	1.78	89.1	2.00	13.0		
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	1.77	88.7	2.00	12.5		
Total Xylenes*	<0.150	0.150	11/05/2022	ND	5.35	89.2	6.00	13.3		
Total BTEx	<0.300	0.300	11/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2022	ND	219	109	200	21.2	
DRO >C10-C28*	<10.0	10.0	11/05/2022	ND	241	120	200	31.4	
EXT DRO >C28-C36	<10.0	10.0	11/05/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 119 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 13 (3') (H225227-13)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2022	ND	1.73	86.6	2.00	11.3		
Toluene*	<0.050	0.050	11/05/2022	ND	1.78	89.1	2.00	13.0		
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	1.77	88.7	2.00	12.5		
Total Xylenes*	<0.150	0.150	11/05/2022	ND	5.35	89.2	6.00	13.3		
Total BTEx	<0.300	0.300	11/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2022	ND	219	109	200	21.2	
DRO >C10-C28*	<10.0	10.0	11/05/2022	ND	241	120	200	31.4	
EXT DRO >C28-C36	<10.0	10.0	11/05/2022	ND					

Surrogate: 1-Chlorooctane 85.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 14 (3') (H225227-14)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2022	ND	1.73	86.6	2.00	11.3		
Toluene*	<0.050	0.050	11/05/2022	ND	1.78	89.1	2.00	13.0		
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	1.77	88.7	2.00	12.5		
Total Xylenes*	<0.150	0.150	11/05/2022	ND	5.35	89.2	6.00	13.3		
Total BTEX	<0.300	0.300	11/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	189	94.3	200	0.481	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	179	89.3	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 93.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 15 (3') (H225227-15)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2022	ND	1.73	86.6	2.00	11.3		
Toluene*	<0.050	0.050	11/05/2022	ND	1.78	89.1	2.00	13.0		
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	1.77	88.7	2.00	12.5		
Total Xylenes*	<0.150	0.150	11/05/2022	ND	5.35	89.2	6.00	13.3		
Total BTEx	<0.300	0.300	11/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	189	94.3	200	0.481	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	179	89.3	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 92.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 16 (3') (H225227-16)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2022	ND	1.73	86.6	2.00	11.3		
Toluene*	<0.050	0.050	11/05/2022	ND	1.78	89.1	2.00	13.0		
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	1.77	88.7	2.00	12.5		
Total Xylenes*	<0.150	0.150	11/05/2022	ND	5.35	89.2	6.00	13.3		
Total BTEx	<0.300	0.300	11/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/07/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	189	94.3	200	0.481	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	179	89.3	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 93.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 17 (3') (H225227-17)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2022	ND	1.73	86.6	2.00	11.3		
Toluene*	<0.050	0.050	11/05/2022	ND	1.78	89.1	2.00	13.0		
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	1.77	88.7	2.00	12.5		
Total Xylenes*	<0.150	0.150	11/05/2022	ND	5.35	89.2	6.00	13.3		
Total BTX	<0.300	0.300	11/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	11/07/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	189	94.3	200	0.481	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	179	89.3	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 94.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 18 (3') (H225227-18)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2022	ND	1.73	86.6	2.00	11.3	
Toluene*	<0.050	0.050	11/05/2022	ND	1.78	89.1	2.00	13.0	
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	1.77	88.7	2.00	12.5	
Total Xylenes*	<0.150	0.150	11/05/2022	ND	5.35	89.2	6.00	13.3	
Total BTX	<0.300	0.300	11/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/07/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	189	94.3	200	0.481	
DRO >C10-C28*	27.2	10.0	11/07/2022	ND	179	89.3	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 96.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 19 (3') (H225227-19)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2022	ND	1.73	86.6	2.00	11.3		
Toluene*	<0.050	0.050	11/05/2022	ND	1.78	89.1	2.00	13.0		
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	1.77	88.7	2.00	12.5		
Total Xylenes*	<0.150	0.150	11/05/2022	ND	5.35	89.2	6.00	13.3		
Total BTEx	<0.300	0.300	11/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/07/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	189	94.3	200	0.481	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	179	89.3	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 107 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 20 (3.5') (H225227-20)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2022	ND	1.73	86.6	2.00	11.3		
Toluene*	<0.050	0.050	11/05/2022	ND	1.78	89.1	2.00	13.0		
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	1.77	88.7	2.00	12.5		
Total Xylenes*	<0.150	0.150	11/05/2022	ND	5.35	89.2	6.00	13.3		
Total BTEX	<0.300	0.300	11/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5360	16.0	11/07/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	189	94.3	200	0.481	
DRO >C10-C28*	44.4	10.0	11/07/2022	ND	179	89.3	200	1.18	
EXT DRO >C28-C36	14.2	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 92.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 21 (3.5') (H225227-21)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2022	ND	2.01	100	2.00	6.05	
Toluene*	<0.050	0.050	11/04/2022	ND	2.12	106	2.00	6.83	
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	2.06	103	2.00	6.65	
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.20	103	6.00	6.03	
Total BTEx	<0.300	0.300	11/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 83.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2480	16.0	11/07/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	189	94.3	200	0.481	
DRO >C10-C28*	223	10.0	11/07/2022	ND	179	89.3	200	1.18	
EXT DRO >C28-C36	51.6	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 108 % 45.3-161

Surrogate: 1-Chlorooctadecane 143 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 22 (3.5') (H225227-22)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2022	ND	2.01	100	2.00	6.05		
Toluene*	<0.050	0.050	11/04/2022	ND	2.12	106	2.00	6.83		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	2.06	103	2.00	6.65		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.20	103	6.00	6.03		
Total BTEX	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3480	16.0	11/07/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	189	94.3	200	0.481	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	179	89.3	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 87.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 23 (3.5') (H225227-23)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2022	ND	2.01	100	2.00	6.05		
Toluene*	<0.050	0.050	11/04/2022	ND	2.12	106	2.00	6.83		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	2.06	103	2.00	6.65		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.20	103	6.00	6.03		
Total BTX	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 83.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5080	16.0	11/07/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	189	94.3	200	0.481	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	179	89.3	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 82.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.5 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 24 (3.5') (H225227-24)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2022	ND	2.01	100	2.00	6.05		
Toluene*	<0.050	0.050	11/04/2022	ND	2.12	106	2.00	6.83		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	2.06	103	2.00	6.65		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.20	103	6.00	6.03		
Total BTX	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 83.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	928	16.0	11/07/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	189	94.3	200	0.481	
DRO >C10-C28*	18.8	10.0	11/07/2022	ND	179	89.3	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 87.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.8 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 25 (7') (H225227-25)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2022	ND	2.01	100	2.00	6.05		
Toluene*	<0.050	0.050	11/04/2022	ND	2.12	106	2.00	6.83		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	2.06	103	2.00	6.65		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.20	103	6.00	6.03		
Total BTEx	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 84.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	11/07/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	189	94.3	200	0.481	
DRO >C10-C28*	40.8	10.0	11/07/2022	ND	179	89.3	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 80.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 26 (7') (H225227-26)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2022	ND	2.01	100	2.00	6.05		
Toluene*	<0.050	0.050	11/04/2022	ND	2.12	106	2.00	6.83		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	2.06	103	2.00	6.65		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.20	103	6.00	6.03		
Total BTX	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	11/07/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	189	94.3	200	0.481	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	179	89.3	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 91.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 27 (3.5') (H225227-27)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2022	ND	2.01	100	2.00	6.05	
Toluene*	<0.050	0.050	11/04/2022	ND	2.12	106	2.00	6.83	
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	2.06	103	2.00	6.65	
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.20	103	6.00	6.03	
Total BTX	<0.300	0.300	11/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/07/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	189	94.3	200	0.481	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	179	89.3	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 82.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.8 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 28 (3.5') (H225227-28)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2022	ND	2.01	100	2.00	6.05		
Toluene*	<0.050	0.050	11/04/2022	ND	2.12	106	2.00	6.83		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	2.06	103	2.00	6.65		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.20	103	6.00	6.03		
Total BTEx	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	784	16.0	11/07/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	189	94.3	200	0.481	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	179	89.3	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 82.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 29 (3.5') (H225227-29)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2022	ND	2.01	100	2.00	6.05		
Toluene*	<0.050	0.050	11/05/2022	ND	2.12	106	2.00	6.83		
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	2.06	103	2.00	6.65		
Total Xylenes*	<0.150	0.150	11/05/2022	ND	6.20	103	6.00	6.03		
Total BTEx	<0.300	0.300	11/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 84.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1420	16.0	11/07/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	189	94.3	200	0.481	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	179	89.3	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 77.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.9 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 30 (3.5') (H225227-30)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2022	ND	2.01	100	2.00	6.05		
Toluene*	<0.050	0.050	11/05/2022	ND	2.12	106	2.00	6.83		
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	2.06	103	2.00	6.65		
Total Xylenes*	<0.150	0.150	11/05/2022	ND	6.20	103	6.00	6.03		
Total BTEx	<0.300	0.300	11/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/07/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	189	94.3	200	0.481	
DRO >C10-C28*	18.0	10.0	11/07/2022	ND	179	89.3	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 83.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.0 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 31 (7') (H225227-31)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2022	ND	2.01	100	2.00	6.05		
Toluene*	<0.050	0.050	11/05/2022	ND	2.12	106	2.00	6.83		
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	2.06	103	2.00	6.65		
Total Xylenes*	<0.150	0.150	11/05/2022	ND	6.20	103	6.00	6.03		
Total BTEx	<0.300	0.300	11/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	11/07/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	189	94.3	200	0.481	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	179	89.3	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 93.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 32 (3.5') (H225227-32)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2022	ND	2.01	100	2.00	6.05		
Toluene*	<0.050	0.050	11/05/2022	ND	2.12	106	2.00	6.83		
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	2.06	103	2.00	6.65		
Total Xylenes*	<0.150	0.150	11/05/2022	ND	6.20	103	6.00	6.03		
Total BTEx	<0.300	0.300	11/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	11/07/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	189	94.3	200	0.481	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	179	89.3	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 81.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.1 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 33 (1.5') (H225227-33)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2022	ND	2.01	100	2.00	6.05		
Toluene*	<0.050	0.050	11/05/2022	ND	2.12	106	2.00	6.83		
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	2.06	103	2.00	6.65		
Total Xylenes*	<0.150	0.150	11/05/2022	ND	6.20	103	6.00	6.03		
Total BTEx	<0.300	0.300	11/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/07/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	189	94.3	200	0.481	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	179	89.3	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 91.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 34 (1.5') (H225227-34)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2022	ND	2.01	100	2.00	6.05		
Toluene*	<0.050	0.050	11/05/2022	ND	2.12	106	2.00	6.83		
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	2.06	103	2.00	6.65		
Total Xylenes*	<0.150	0.150	11/05/2022	ND	6.20	103	6.00	6.03		
Total BTEx	<0.300	0.300	11/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/07/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	198	99.2	200	0.732	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	196	97.9	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 94.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 35 (1.5') (H225227-35)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2022	ND	2.01	100	2.00	6.05		
Toluene*	<0.050	0.050	11/05/2022	ND	2.12	106	2.00	6.83		
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	2.06	103	2.00	6.65		
Total Xylenes*	<0.150	0.150	11/05/2022	ND	6.20	103	6.00	6.03		
Total BTEx	<0.300	0.300	11/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/07/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	198	99.2	200	0.732	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	196	97.9	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 36 (1.5') (H225227-36)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2022	ND	2.01	100	2.00	6.05		
Toluene*	<0.050	0.050	11/05/2022	ND	2.12	106	2.00	6.83		
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	2.06	103	2.00	6.65		
Total Xylenes*	<0.150	0.150	11/05/2022	ND	6.20	103	6.00	6.03		
Total BTEx	<0.300	0.300	11/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	198	99.2	200	0.732	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	196	97.9	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 37 (3.5') (H225227-37)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2022	ND	2.01	100	2.00	6.05		
Toluene*	<0.050	0.050	11/05/2022	ND	2.12	106	2.00	6.83		
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	2.06	103	2.00	6.65		
Total Xylenes*	<0.150	0.150	11/05/2022	ND	6.20	103	6.00	6.03		
Total BTEx	<0.300	0.300	11/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/07/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	198	99.2	200	0.732	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	196	97.9	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 38 (3.5') (H225227-38)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2022	ND	2.01	100	2.00	6.05	
Toluene*	<0.050	0.050	11/05/2022	ND	2.12	106	2.00	6.83	
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	2.06	103	2.00	6.65	
Total Xylenes*	<0.150	0.150	11/05/2022	ND	6.20	103	6.00	6.03	
Total BTEx	<0.300	0.300	11/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1340	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	198	99.2	200	0.732	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	196	97.9	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 92.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.7 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 39 (3.5') (H225227-39)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2022	ND	2.01	100	2.00	6.05	
Toluene*	<0.050	0.050	11/05/2022	ND	2.12	106	2.00	6.83	
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	2.06	103	2.00	6.65	
Total Xylenes*	<0.150	0.150	11/05/2022	ND	6.20	103	6.00	6.03	
Total BTEX	<0.300	0.300	11/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	844	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	198	99.2	200	0.732	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	196	97.9	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 80.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 40 (7') (H225227-40)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2022	ND	2.01	100	2.00	6.05	
Toluene*	<0.050	0.050	11/05/2022	ND	2.12	106	2.00	6.83	
Ethylbenzene*	<0.050	0.050	11/05/2022	ND	2.06	103	2.00	6.65	
Total Xylenes*	<0.150	0.150	11/05/2022	ND	6.20	103	6.00	6.03	
Total BTEX	<0.300	0.300	11/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 83.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10500	16.0	11/07/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	198	99.2	200	0.732	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	196	97.9	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 97.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 41 (1.5') (H225227-41)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.96	98.0	2.00	2.48		
Toluene*	<0.050	0.050	11/07/2022	ND	2.06	103	2.00	2.70		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.98	99.0	2.00	1.80		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.00	100	6.00	1.62		
Total BTEX	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	198	99.2	200	0.732	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	196	97.9	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 42 (1.5') (H225227-42)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.96	98.0	2.00	2.48		
Toluene*	<0.050	0.050	11/07/2022	ND	2.06	103	2.00	2.70		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.98	99.0	2.00	1.80		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.00	100	6.00	1.62		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	198	99.2	200	0.732	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	196	97.9	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 96.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 43 (1.5') (H225227-43)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.96	98.0	2.00	2.48		
Toluene*	<0.050	0.050	11/07/2022	ND	2.06	103	2.00	2.70		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.98	99.0	2.00	1.80		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.00	100	6.00	1.62		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	198	99.2	200	0.732	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	196	97.9	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 96.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 44 (1.5') (H225227-44)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.96	98.0	2.00	2.48		
Toluene*	<0.050	0.050	11/07/2022	ND	2.06	103	2.00	2.70		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.98	99.0	2.00	1.80		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.00	100	6.00	1.62		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1970	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	198	99.2	200	0.732	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	196	97.9	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 87.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 45 (1.5') (H225227-45)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.96	98.0	2.00	2.48		
Toluene*	<0.050	0.050	11/07/2022	ND	2.06	103	2.00	2.70		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.98	99.0	2.00	1.80		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.00	100	6.00	1.62		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	198	99.2	200	0.732	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	196	97.9	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 93.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.9 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 46 (3.5') (H225227-46)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.96	98.0	2.00	2.48		
Toluene*	<0.050	0.050	11/07/2022	ND	2.06	103	2.00	2.70		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.98	99.0	2.00	1.80		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.00	100	6.00	1.62		
Total BTEX	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9860	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	198	99.2	200	0.732	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	196	97.9	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 84.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.4 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 47 (3.5') (H225227-47)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.96	98.0	2.00	2.48		
Toluene*	<0.050	0.050	11/07/2022	ND	2.06	103	2.00	2.70		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.98	99.0	2.00	1.80		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.00	100	6.00	1.62		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3520	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	198	99.2	200	0.732	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	196	97.9	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 85.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.9 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 48 (3.5') (H225227-48)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2022	ND	1.96	98.0	2.00	2.48	
Toluene*	<0.050	0.050	11/07/2022	ND	2.06	103	2.00	2.70	
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.98	99.0	2.00	1.80	
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.00	100	6.00	1.62	
Total BTEX	<0.300	0.300	11/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13700	16.0	11/07/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	198	99.2	200	0.732	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	196	97.9	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 87.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.8 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 49 (7') (H225227-49)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.96	98.0	2.00	2.48		
Toluene*	<0.050	0.050	11/07/2022	ND	2.06	103	2.00	2.70		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.98	99.0	2.00	1.80		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.00	100	6.00	1.62		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2210	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	198	99.2	200	0.732	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	196	97.9	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 84.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.3 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 50 (3.5') (H225227-50)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2022	ND	1.96	98.0	2.00	2.48	
Toluene*	<0.050	0.050	11/07/2022	ND	2.06	103	2.00	2.70	
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.98	99.0	2.00	1.80	
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.00	100	6.00	1.62	
Total BTEx	<0.300	0.300	11/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	11/07/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2022	ND	198	99.2	200	0.732	
DRO >C10-C28*	<10.0	10.0	11/08/2022	ND	196	97.9	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 92.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 51 (1.5') (H225227-51)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.96	98.0	2.00	2.48		
Toluene*	<0.050	0.050	11/07/2022	ND	2.06	103	2.00	2.70		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.98	99.0	2.00	1.80		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.00	100	6.00	1.62		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1230	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2022	ND	198	99.2	200	0.732	
DRO >C10-C28*	<10.0	10.0	11/08/2022	ND	196	97.9	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 95.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.7 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 52 (1.5') (H225227-52)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2022	ND	1.96	98.0	2.00	2.48	
Toluene*	<0.050	0.050	11/07/2022	ND	2.06	103	2.00	2.70	
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.98	99.0	2.00	1.80	
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.00	100	6.00	1.62	
Total BTEx	<0.300	0.300	11/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2022	ND	198	99.2	200	0.732	
DRO >C10-C28*	<10.0	10.0	11/08/2022	ND	196	97.9	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 96.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 53 (1.5') (H225227-53)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.96	98.0	2.00	2.48		
Toluene*	<0.050	0.050	11/07/2022	ND	2.06	103	2.00	2.70		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.98	99.0	2.00	1.80		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.00	100	6.00	1.62		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	196	98.0	200	0.664	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	202	101	200	7.02	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 89.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 54 (1.5') (H225227-54)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2022	ND	1.96	98.0	2.00	2.48	
Toluene*	<0.050	0.050	11/07/2022	ND	2.06	103	2.00	2.70	
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.98	99.0	2.00	1.80	
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.00	100	6.00	1.62	
Total BTEx	<0.300	0.300	11/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	196	98.0	200	0.664	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	202	101	200	7.02	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 93.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 55 (1.5') (H225227-55)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.96	98.0	2.00	2.48		
Toluene*	<0.050	0.050	11/07/2022	ND	2.06	103	2.00	2.70		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.98	99.0	2.00	1.80		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.00	100	6.00	1.62		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	196	98.0	200	0.664	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	202	101	200	7.02	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 87.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.6 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 56 (3.5') (H225227-56)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.96	98.0	2.00	2.48		
Toluene*	<0.050	0.050	11/07/2022	ND	2.06	103	2.00	2.70		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.98	99.0	2.00	1.80		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.00	100	6.00	1.62		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1420	16.0	11/07/2022	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	196	98.0	200	0.664	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	202	101	200	7.02	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 81.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.8 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 57 (3.5') (H225227-57)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2022	ND	1.96	98.0	2.00	2.48	
Toluene*	<0.050	0.050	11/07/2022	ND	2.06	103	2.00	2.70	
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.98	99.0	2.00	1.80	
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.00	100	6.00	1.62	
Total BTEx	<0.300	0.300	11/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6160	16.0	11/07/2022	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	196	98.0	200	0.664	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	202	101	200	7.02	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 82.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.2 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 58 (3.5') (H225227-58)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2022	ND	1.96	98.0	2.00	2.48	
Toluene*	<0.050	0.050	11/07/2022	ND	2.06	103	2.00	2.70	
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.98	99.0	2.00	1.80	
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.00	100	6.00	1.62	
Total BTEx	<0.300	0.300	11/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11600	16.0	11/07/2022	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	196	98.0	200	0.664	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	202	101	200	7.02	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 94.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 59 (6') (H225227-59)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.96	98.0	2.00	2.48		
Toluene*	<0.050	0.050	11/07/2022	ND	2.06	103	2.00	2.70		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.98	99.0	2.00	1.80		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.00	100	6.00	1.62		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	11/07/2022	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	196	98.0	200	0.664	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	202	101	200	7.02	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 85.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 60 (3.5') (H225227-60)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2022	ND	1.96	98.0	2.00	2.48	
Toluene*	<0.050	0.050	11/07/2022	ND	2.06	103	2.00	2.70	
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.98	99.0	2.00	1.80	
Total Xylenes*	<0.150	0.150	11/07/2022	ND	6.00	100	6.00	1.62	
Total BTEx	<0.300	0.300	11/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	11/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	196	98.0	200	0.664	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	202	101	200	7.02	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 91.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 61 (3.5') (H225227-61)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.83	91.6	2.00	12.1		
Toluene*	<0.050	0.050	11/07/2022	ND	1.93	96.3	2.00	12.4		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.85	92.3	2.00	12.9		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.1	6.00	12.3		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	11/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	196	98.0	200	0.664	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	202	101	200	7.02	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 87.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 62 (3.5') (H225227-62)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.83	91.6	2.00	12.1		
Toluene*	<0.050	0.050	11/07/2022	ND	1.93	96.3	2.00	12.4		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.85	92.3	2.00	12.9		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.1	6.00	12.3		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	928	16.0	11/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	196	98.0	200	0.664	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	202	101	200	7.02	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 95.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 63 (3.5') (H225227-63)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.83	91.6	2.00	12.1		
Toluene*	<0.050	0.050	11/07/2022	ND	1.93	96.3	2.00	12.4		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.85	92.3	2.00	12.9		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.1	6.00	12.3		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	11/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	196	98.0	200	0.664	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	202	101	200	7.02	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 92.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 64 (3.5') (H225227-64)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.83	91.6	2.00	12.1		
Toluene*	<0.050	0.050	11/07/2022	ND	1.93	96.3	2.00	12.4		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.85	92.3	2.00	12.9		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.1	6.00	12.3		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2120	16.0	11/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2022	ND	196	98.0	200	0.664	
DRO >C10-C28*	<10.0	10.0	11/08/2022	ND	202	101	200	7.02	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 92.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 65 (3.5') (H225227-65)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.83	91.6	2.00	12.1		
Toluene*	<0.050	0.050	11/07/2022	ND	1.93	96.3	2.00	12.4		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.85	92.3	2.00	12.9		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.1	6.00	12.3		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	11/07/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	196	98.0	200	0.664	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	202	101	200	7.02	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 92.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 66 (3.5') (H225227-66)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.83	91.6	2.00	12.1		
Toluene*	<0.050	0.050	11/07/2022	ND	1.93	96.3	2.00	12.4		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.85	92.3	2.00	12.9		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.1	6.00	12.3		
Total BTEX	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1500	16.0	11/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	196	98.0	200	0.664	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	202	101	200	7.02	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 88.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.2 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 67 (3.5') (H225227-67)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.83	91.6	2.00	12.1		
Toluene*	<0.050	0.050	11/07/2022	ND	1.93	96.3	2.00	12.4		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.85	92.3	2.00	12.9		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.1	6.00	12.3		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2040	16.0	11/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	196	98.0	200	0.664	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	202	101	200	7.02	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 93.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.0 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 68 (6') (H225227-68)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.83	91.6	2.00	12.1		
Toluene*	<0.050	0.050	11/07/2022	ND	1.93	96.3	2.00	12.4		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.85	92.3	2.00	12.9		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.1	6.00	12.3		
Total BTX	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	11/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	196	98.0	200	0.664	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	202	101	200	7.02	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 98.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 69 (3.5') (H225227-69)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.83	91.6	2.00	12.1		
Toluene*	<0.050	0.050	11/07/2022	ND	1.93	96.3	2.00	12.4		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.85	92.3	2.00	12.9		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.1	6.00	12.3		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	11/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	196	98.0	200	0.664	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	202	101	200	7.02	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 95.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 70 (3.5') (H225227-70)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.83	91.6	2.00	12.1		
Toluene*	<0.050	0.050	11/07/2022	ND	1.93	96.3	2.00	12.4		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.85	92.3	2.00	12.9		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.1	6.00	12.3		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	11/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	196	98.0	200	0.664	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	202	101	200	7.02	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 97.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 71 (3.5') (H225227-71)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.83	91.6	2.00	12.1		
Toluene*	<0.050	0.050	11/07/2022	ND	1.93	96.3	2.00	12.4		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.85	92.3	2.00	12.9		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.1	6.00	12.3		
Total BTX	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2260	16.0	11/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	196	98.0	200	0.664	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	202	101	200	7.02	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 93.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 72 (3.5') (H225227-72)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.83	91.6	2.00	12.1		
Toluene*	<0.050	0.050	11/07/2022	ND	1.93	96.3	2.00	12.4		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.85	92.3	2.00	12.9		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.1	6.00	12.3		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1010	16.0	11/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	196	98.0	200	0.664	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	202	101	200	7.02	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 90.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.3 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 73 (3.5') (H225227-73)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.83	91.6	2.00	12.1		
Toluene*	<0.050	0.050	11/07/2022	ND	1.93	96.3	2.00	12.4		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.85	92.3	2.00	12.9		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.1	6.00	12.3		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1170	16.0	11/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	182	91.2	200	2.18	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	181	90.7	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 78.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.8 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 74 (3.5') (H225227-74)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.83	91.6	2.00	12.1		
Toluene*	<0.050	0.050	11/07/2022	ND	1.93	96.3	2.00	12.4		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.85	92.3	2.00	12.9		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.1	6.00	12.3		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1310	16.0	11/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	182	91.2	200	2.18	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	181	90.7	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 69.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 75 (3.5') (H225227-75)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.83	91.6	2.00	12.1		
Toluene*	<0.050	0.050	11/07/2022	ND	1.93	96.3	2.00	12.4		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.85	92.3	2.00	12.9		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.1	6.00	12.3		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3120	16.0	11/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	182	91.2	200	2.18	
DRO >C10-C28*	44.2	10.0	11/07/2022	ND	181	90.7	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 81.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 76 (3.5') (H225227-76)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.83	91.6	2.00	12.1		
Toluene*	<0.050	0.050	11/07/2022	ND	1.93	96.3	2.00	12.4		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.85	92.3	2.00	12.9		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.1	6.00	12.3		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1630	16.0	11/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	182	91.2	200	2.18	
DRO >C10-C28*	22.2	10.0	11/07/2022	ND	181	90.7	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 74.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 77 (6') (H225227-77)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.83	91.6	2.00	12.1		
Toluene*	<0.050	0.050	11/07/2022	ND	1.93	96.3	2.00	12.4		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.85	92.3	2.00	12.9		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.1	6.00	12.3		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	11/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	182	91.2	200	2.18	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	181	90.7	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 76.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 78 (3.5') (H225227-78)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.83	91.6	2.00	12.1		
Toluene*	<0.050	0.050	11/07/2022	ND	1.93	96.3	2.00	12.4		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.85	92.3	2.00	12.9		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.1	6.00	12.3		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	11/07/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	182	91.2	200	2.18	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	181	90.7	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 67.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 79 (3.5') (H225227-79)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.83	91.6	2.00	12.1		
Toluene*	<0.050	0.050	11/07/2022	ND	1.93	96.3	2.00	12.4		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.85	92.3	2.00	12.9		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.1	6.00	12.3		
Total BTX	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	11/07/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	182	91.2	200	2.18	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	181	90.7	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 77.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.6 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 80 (3.5') (H225227-80)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2022	ND	1.83	91.6	2.00	12.1	
Toluene*	<0.050	0.050	11/08/2022	ND	1.93	96.3	2.00	12.4	
Ethylbenzene*	<0.050	0.050	11/08/2022	ND	1.85	92.3	2.00	12.9	
Total Xylenes*	<0.150	0.150	11/08/2022	ND	5.64	94.1	6.00	12.3	
Total BTX	<0.300	0.300	11/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/07/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	182	91.2	200	2.18	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	181	90.7	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 71.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.8 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 81 (3.5') (H225227-81)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2022	ND	1.81	90.4	2.00	8.83	QM-07
Toluene*	<0.050	0.050	11/07/2022	ND	1.99	99.6	2.00	6.72	
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	6.97	
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.0	6.00	7.62	
Total BTX	<0.300	0.300	11/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	11/07/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	182	91.2	200	2.18	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	181	90.7	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 80.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.0 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 82 (3.5') (H225227-82)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.81	90.4	2.00	8.83		
Toluene*	<0.050	0.050	11/07/2022	ND	1.99	99.6	2.00	6.72		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	6.97		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.0	6.00	7.62		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	11/07/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	182	91.2	200	2.18	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	181	90.7	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 67.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.7 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 83 (3.5') (H225227-83)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.81	90.4	2.00	8.83		
Toluene*	<0.050	0.050	11/07/2022	ND	1.99	99.6	2.00	6.72		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	6.97		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.0	6.00	7.62		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	11/07/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	182	91.2	200	2.18	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	181	90.7	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 61.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 71.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 84 (3.5') (H225227-84)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.81	90.4	2.00	8.83		
Toluene*	<0.050	0.050	11/07/2022	ND	1.99	99.6	2.00	6.72		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	6.97		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.0	6.00	7.62		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	11/07/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	182	91.2	200	2.18	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	181	90.7	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 54.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 64.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 85 (3.5') (H225227-85)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.81	90.4	2.00	8.83		
Toluene*	<0.050	0.050	11/07/2022	ND	1.99	99.6	2.00	6.72		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	6.97		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.0	6.00	7.62		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	11/07/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	182	91.2	200	2.18	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	181	90.7	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 77.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.3 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 1 (H225227-86)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.81	90.4	2.00	8.83		
Toluene*	<0.050	0.050	11/07/2022	ND	1.99	99.6	2.00	6.72		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	6.97		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.0	6.00	7.62		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/07/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	182	91.2	200	2.18	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	181	90.7	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 78.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 2 (H225227-87)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.81	90.4	2.00	8.83		
Toluene*	<0.050	0.050	11/07/2022	ND	1.99	99.6	2.00	6.72		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	6.97		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.0	6.00	7.62		
Total BTEX	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/07/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	182	91.2	200	2.18	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	181	90.7	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 83.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 3 (H225227-88)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.81	90.4	2.00	8.83		
Toluene*	<0.050	0.050	11/07/2022	ND	1.99	99.6	2.00	6.72		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	6.97		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.0	6.00	7.62		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/07/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	182	91.2	200	2.18	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	181	90.7	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 79.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.3 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 4 (H225227-89)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.81	90.4	2.00	8.83		
Toluene*	<0.050	0.050	11/07/2022	ND	1.99	99.6	2.00	6.72		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	6.97		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.0	6.00	7.62		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/07/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	182	91.2	200	2.18	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	181	90.7	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 82.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.4 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 5 (H225227-90)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.81	90.4	2.00	8.83		
Toluene*	<0.050	0.050	11/07/2022	ND	1.99	99.6	2.00	6.72		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	6.97		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.0	6.00	7.62		
Total BTX	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/07/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	182	91.2	200	2.18	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	181	90.7	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 74.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager

## Chain of Custody

Work Order No: H225227Page 1 of 12

Page 93 of 101

Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	Wesley.Mathews@dvn.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:

Project Name:	Ragin Cajun 13-1		Turn Around		Pres. Code	ANALYSIS REQUEST																Preservative Codes					
Project Number:	226363		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			Parameters	BTEX 8021B TPH 8015M (GRO + DRO + MRO) Chloride 4500																None: NO		DI Water: H <sub>2</sub> O		
Project Location:	Lea Co. NM		Due Date:																				48 Hr		Cool: Cool		MeOH: Me
Sampler's Name:	Kenny Han		TAT starts the day received by the lab, if received by 4:30pm																				HCL: HC		HNO <sub>3</sub> : HN		
PO #:	21073110				H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>																		NaOH: Na				
SAMPLE RECEIPT				Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	HOLD H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC																			
Received Intact:				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	113																					
Cooler Custody Seals:				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:	-0.68																					
Sample Custody Seals:				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading:	8.02																					
Total Containers:				115		Corrected Temperature:	4.42																				
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont																	Sample Comments				
CS-1 (3')	11/3/2022	1pm	x		comp	1	x	x	x																		
CS-2 (3')	11/3/2022	1pm	x		comp	1	x	x	x																		
CS-3 (3')	11/3/2022	1pm	x		comp	1	x	x	x																		
CS-4 (3')	11/3/2022	1pm	x		comp	1	x	x	x																		
CS-5 (3')	11/3/2022	1pm	x		comp	1	x	x	x																		
CS-6 (3')	11/3/2022	1pm	x		comp	1	x	x	x																		
CS-7 (3')	11/3/2022	1pm	x		comp	1	x	x	x																		
CS-8 (3')	11/3/2022	1pm	x		comp	1	x	x	x																		
CS-9 (3')	11/3/2022	1pm	x		comp	1	x	x	x																		
CS-10 (3')	11/3/2022	1pm	x		comp	1	x	x	x																		

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	11-4-22 1245	2		
3			4		
5			6		



## Chain of Custody

Work Order No: H225227Page 2 of 12

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Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	Wesley.Mathews@devon.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name:		Ragin Cajun 13-1		Turn Around				ANALYSIS REQUEST										Preservative Codes							
Project Number:		226363		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush		Pres. Code												None: NO DI Water: H <sub>2</sub> O							
Project Location		Lea Co. NM		Due Date:		48 Hr												Cool: Cool MeOH: Me							
Sampler's Name:		Kenny Han		TAT starts the day received by the lab, if received by 4:30pm														HCL: HC HNO <sub>3</sub> : HN							
PO #:		21073110																H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na							
SAMPLE RECEIPT		Temp Blank:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Wet Ice:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>												H <sub>3</sub> PO <sub>4</sub> : HP					
Received Intact:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:		113												NaHSO <sub>4</sub> : NABIS							
Cooler Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Correction Factor:		-0.6°C												Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>							
Sample Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Temperature Reading:		5.0°C												Zn Acetate+NaOH: Zn							
Total Containers:		115		Corrected Temperature:		4.4°C												NaOH+Ascorbic Acid: SAPC							
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont												Sample Comments	
CS-11 (3')		11/3/2022		1pm		x				Comp		1		x x x											
CS-12 (3')		11/3/2022		1pm		x				Comp		1		x x x											
CS-13 (3')		11/3/2022		1pm		x				Comp		1		x x x											
CS-14 (3')		11/3/2022		1pm		x				Comp		1		x x x											
CS-15 (3')		11/3/2022		1pm		x				Comp		1		x x x											
CS-16 (3')		11/3/2022		1pm		x				Comp		1		x x x											
CS-17 (3')		11/3/2022		1pm		x				Comp		1		x x x											
CS-18 (3')		11/3/2022		1pm		x				Comp		1		x x x											
CS-19 (3')		11/3/2022		1pm		x				Comp		1		x x x											
CS-20 (3.5')		11/3/2022		1pm		x				Comp		1		x x x											

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>Kumli</i>	<i>Amara V. Dela Torre</i>	11-4-22 1245	2		
3			4		
5			6		



## Chain of Custody

Work Order No: H225227Page 3 of 12

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Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	Wesley.Mathews@dvn.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:

Project Name:	Ragin Cajun 13-1		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes				
Project Number:	226363		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush															None: NO DI Water: H <sub>2</sub> O				
Project Location:	Lea Co. NM		Due Date:	48 Hr	Parameters													Cool: Cool MeOH: Me				
Sampler's Name:	Kenny Han		TAT starts the day received by the lab, if received by 4:30pm															HCL: HC HNO <sub>3</sub> : HN				
PO #	21073110																	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na				
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													H <sub>3</sub> PO <sub>4</sub> : HP			
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	113		BTX 8021B													NaHSO <sub>4</sub> : NABIS				
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Correction Factor:	-0.6°C															Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>				
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Temperature Reading:	5.0°C															Zn Acetate+NaOH: Zn				
Total Containers:	115	Corrected Temperature:	4.4°C															NaOH+Ascorbic Acid: SAPC				
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments		
CS-21 (3.5')		11/3/2022	1pm	x		Comp	1	x	x	x												
CS-22 (3.5')		11/3/2022	1pm	x		Comp	1	x	x	x												
CS-23 (3.5')		11/3/2022	1pm	x		Comp	1	x	x	x												
CS-24 (3.5')		11/3/2022	1pm	x		Comp	1	x	x	x												
CS-25 (7')		11/3/2022	1pm	x		Comp	1	x	x	x												
CS-26 (7')		11/3/2022	1pm	x		Comp	1	x	x	x												
CS-27 (3.5')		11/3/2022	1pm	x		Comp	1	x	x	x												
CS-28 (3.5')		11/3/2022	1pm	x		Comp	1	x	x	x												
CS-29 (3.5')		11/3/2022	1pm	x		Comp	1	x	x	x												
CS-30 (3.5')		11/3/2022	1pm	x		Comp	1	x	x	x												

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>Kenny Han</i>	<i>Wesley Mathews</i>	11-4-22 1245	2		
3			4		
5			6		



## Chain of Custody

Work Order No: H225227Page 4 of 12

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Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	Wesley.Mathews@dvn.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name:	Ragin Cajun 13-1		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes					
Project Number:	226363		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			Parameters	BTEX 8021B TPH 8015M (GRO + DRO + MRO) Chloride 4500												None: NO DI Water: H <sub>2</sub> O				
Project Location:	Lea Co. NM		Due Date: 48 Hr																Cool: Cool MeOH: Me				
Sampler's Name:	Kenny Han		TAT starts the day received by the lab, if received by 4:30pm																HCL: HC HNO <sub>3</sub> : HN				
PO #:	21073110																	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na					
SAMPLE RECEIPT			Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																H <sub>3</sub> PO <sub>4</sub> : HP	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:		113																	NaHSO <sub>4</sub> : NABIS	
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Correction Factor:		-0.6°C																	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Temperature Reading:		5.0°C																	Zn Acetate+NaOH: Zn	
Total Containers:	115		Corrected Temperature:		4.4°C																	NaOH+Ascorbic Acid: SAPC	
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont																Sample Comments	
CS-31 (7")	11/3/2022	1pm	x		Comp	1	x	x	x														
CS-32 (3.5')	11/3/2022	1pm	x		Comp	1	x	x	x														
CS-33 (1.5')	11/3/2022	1pm	x		Comp	1	x	x	x														
CS-34 (1.5')	11/3/2022	1pm	x		Comp	1	x	x	x														
CS-35 (1.5')	11/3/2022	1pm	x		Comp	1	x	x	x														
CS-36 (1.5')	11/3/2022	1pm	x		Comp	1	x	x	x														
CS-37 (3.5')	11/3/2022	1pm	x		Comp	1	x	x	x														
CS-38 (3.5')	11/3/2022	1pm	x		Comp	1	x	x	x														
CS-39 (3.5')	11/3/2022	1pm	x		Comp	1	x	x	x														
CS-40 (7")	11/3/2022	1pm	x		Comp	1	x	x	x														

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	11-4-22 1245	2		
3			4		
5			6		



## Chain of Custody

Work Order No: 4225227Page 5 of 12

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Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	Wesley.Mathews@dvn.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name:		Ragin Cajun 13-1		Turn Around				ANALYSIS REQUEST										Preservative Codes				
Project Number:		226363		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush		Pres. Code												None: NO DI Water: H <sub>2</sub> O				
Project Location:		Lea Co. NM		Due Date:		48 Hr												Cool: Cool MeOH: Me				
Sampler's Name:		Kenny Han		TAT starts the day received by the lab, if received by 4:30pm														HCL: HC HNO <sub>3</sub> : HN				
PO #:		21073110																H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na				
SAMPLE RECEIPT		Temp Blank:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Wet Ice:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>												H <sub>3</sub> PO <sub>4</sub> : HP		
Received Intact:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:		113												NaHSO <sub>4</sub> : NABIS				
Cooler Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Correction Factor:		-0.6°C												Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>				
Sample Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Temperature Reading:		5.0°C												Zn Acetate+NaOH: Zn				
Total Containers:		115		Corrected Temperature:		4.4°C												NaOH+Ascorbic Acid: SAPC				
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments				
CS-41 (1.5')		11/3/2022	1pm	x		Comp	1	x	x	x												
CS-42 (1.5')		11/3/2022	1pm	x		Comp	1	x	x	x												
CS-43 (1.5')		11/3/2022	1pm	x		Comp	1	x	x	x												
CS-44 (1.5')		11/3/2022	1pm	x		Comp	1	x	x	x												
CS-45 (1.5')		11/3/2022	1pm	x		Comp	1	x	x	x												
CS-46 (3.5')		11/3/2022	1pm	x		Comp	1	x	x	x												
CS-47 (3.5')		11/3/2022	1pm	x		Comp	1	x	x	x												
CS-48 (3.5')		11/3/2022	1pm	x		Comp	1	x	x	x												
CS-49 (7')		11/3/2022	1pm	x		Comp	1	x	x	x												
CS-50 (3.5')		11/3/2022	1pm	x		Comp	1	x	x	x												

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	11-4-22 1245	2		
3			4		
5			6		



## Chain of Custody

Work Order No: H225227Page 6 of 12

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Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	Wesley.Mathews@dvn.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name:	Ragin Cajun 13-1		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes					
Project Number:	226363		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			Parameters	BTEX 8021B TPH 8015M (GRO + DRO + MRO) Chloride 4500												None: NO DI Water: H <sub>2</sub> O				
Project Location:	Lea Co. NM		Due Date: 48 Hr																Cool: Cool MeOH: Me				
Sampler's Name:	Kenny Han		TAT starts the day received by the lab, if received by 4:30pm																HCL: HC HNO <sub>3</sub> : HN				
PO #:	21073110				H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na																		
SAMPLE RECEIPT				Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	HOLD												H <sub>3</sub> PO <sub>4</sub> : HP			
Received Intact:				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID: 113		NaHSO <sub>4</sub> : NABIS																
Cooler Custody Seals:				Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Correction Factor: -0.6%		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>																
Sample Custody Seals:				Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Temperature Reading: 5.0%		Zn Acetate+NaOH: Zn																
Total Containers:				115		Corrected Temperature: 4.4%														NaOH+Ascorbic Acid: SAPC			
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments			
CS-51 (1.5')		11/3/2022	1pm	x		Comp	1	x	x	x													
CS-52 (1.5')		11/3/2022	1pm	x		Comp	1	x	x	x													
CS-53 (1.5')		11/3/2022	1pm	x		Comp	1	x	x	x													
CS-54 (1.5')		11/3/2022	1pm	x		Comp	1	x	x	x													
CS-55 (1.5')		11/3/2022	1pm	x		Comp	1	x	x	x													
CS-56 (3.5')		11/3/2022	1pm	x		Comp	1	x	x	x													
CS-57 (3.5')		11/3/2022	1pm	x		Comp	1	x	x	x													
CS-58 (3.5')		11/3/2022	1pm	x		Comp	1	x	x	x													
CS-59 (6')		11/3/2022	1pm	x		Comp	1	x	x	x													
CS-60 (3.5')		11/3/2022	1pm	x		Comp	1	x	x	x													

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	11-4-22 1245	2		
3			4		
5			6		



## Chain of Custody

Work Order No: H225227Page 7 of 12

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Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	Wesley.Mathews@devon.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> FRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name:	Ragin Cajun 13-1		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes					
Project Number:	226363		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			Parameters	BTEX 8021B TPH 8015M (GRO + DRO + MRO) Chloride 4500												None: NO		DI Water: H <sub>2</sub> O		
Project Location:	Lea Co. NM		Due Date: 48 Hr																Cool: Cool		MeOH: Me		
Sampler's Name:	Kenny Han		TAT starts the day received by the lab, if received by 4:30pm																HCL: HC		HNO <sub>3</sub> : HN		
PO #:	21073110																	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>		NaOH: Na			
SAMPLE RECEIPT			Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																H <sub>3</sub> PO <sub>4</sub> : HP	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:		113																	NaHSO <sub>4</sub> : NABIS	
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Correction Factor:		-0.6°C																	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Temperature Reading:		51.0°C																	Zn Acetate+NaOH: Zn	
Total Containers:	115		Corrected Temperature:		4.4°C																	NaOH+Ascorbic Acid: SAPC	
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont																Sample Comments	
CS-61 (3.5')	11/3/2022	1pm	x		Comp	1	x	x	x														
CS-62 (3.5')	11/3/2022	1pm	x		Comp	1	x	x	x														
CS-63 (3.5')	11/3/2022	1pm	x		Comp	1	x	x	x														
CS-64 (3.5')	11/3/2022	1pm	x		Comp	1	x	x	x														
CS-65 (3.5')	11/3/2022	1pm	x		Comp	1	x	x	x														
CS-66 (3.5')	11/3/2022	1pm	x		Comp	1	x	x	x														
CS-67 (3.5')	11/3/2022	1pm	x		Comp	1	x	x	x														
CS-68 (6')	11/3/2022	1pm	x		Comp	1	x	x	x														
CS-69 (3.5')	11/3/2022	1pm	x		Comp	1	x	x	x														
CS-70 (3.5')	11/3/2022	1pm	x		Comp	1	x	x	x														

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	11-4-22 1245	2		
3			4		
5			6		





## Chain of Custody

Work Order No: H22522Page 8 of 12

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Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	Wesley.Mathews@devon.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting Level:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name:		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes			
Project Number:	226363	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush															None: NO	DI Water: H <sub>2</sub> O		
Project Location:	Lea Co. NM	Due Date:	48 Hr	Parameters													Cool: Cool	MeOH: Me		
Sampler's Name:	Kenny Han	TAT starts the day received by the lab, if received by 4:30pm															HCL: HC	HNO <sub>3</sub> : HN		
PO #:	21073110																H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na		
SAMPLE RECEIPT		Temp Blank:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Wet Ice:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>													H <sub>3</sub> PO <sub>4</sub> : HP	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	113														NaHSO <sub>4</sub> : NABIS			
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Correction Factor:	-0.6°C														Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>			
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Temperature Reading:	5.0°C														Zn Acetate+NaOH: Zn			
Total Containers:	115	Corrected Temperature:	4.4°C														NaOH+Ascorbic Acid: SAPC			
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
CS-71 (3.5')	11/3/2022	1pm	x		Comp	1	x	x	x											
CS-72 (3.5')	11/3/2022	1pm	x		Comp	1	x	x	x											
CS-73 (3.5')	11/3/2022	1pm	x		Comp	1	x	x	x											
CS-74 (3.5')	11/3/2022	1pm	x		Comp	1	x	x	x											
CS-75 (3.5')	11/3/2022	1pm	x		Comp	1	x	x	x											
CS-76 (3.5')	11/3/2022	1pm	x		Comp	1	x	x	x											
CS-77 (6')	11/3/2022	1pm	x		Comp	1	x	x	x											
CS-78 (3.5')	11/3/2022	1pm	x		Comp	1	x	x	x											
CS-79 (3.5')	11/3/2022	1pm	x		Comp	1	x	x	x											
CS-80 (3.5')	11/3/2022	1pm	x		Comp	1	x	x	x											

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	11-4-22 1245	2		
3			4		
5			6		





## Chain of Custody

Work Order No: H22522Page 9 of 12

Page 101 of 101

Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	Wesley.Mathews@dmv.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:

Project Name:	Ragin Cajun 13-1		Turn Around		Pres. Code	ANALYSIS REQUEST																Preservative Codes					
Project Number:	226363		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			Parameters	BTEX 8021B TPH 8015M (GRO + DRO + MRO) Chloride 4500																None: NO DI Water: H <sub>2</sub> O				
Project Location:	Lea Co. NM		Due Date: 48 Hr																				Cool: Cool MeOH: Me				
Sampler's Name:	Kenny Han		TAT starts the day received by the lab, if received by 4:30pm																				HCL: HC HNO <sub>3</sub> : HN				
PO #:	21073110																					H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na					
SAMPLE RECEIPT			Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	HOLD H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC																Sample Comments				
Received Intact:			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:		113																					
Cooler Custody Seals:			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:		-0.6°C																					
Sample Custody Seals:			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading:		5.0°C																					
Total Containers:			115		Corrected Temperature:																				4.4°C		
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont																					
CS-81 (3.5')	11/3/2022	1pm	x		Comp	1	x	x	x																		
CS-82 (3.5')	11/3/2022	1pm	x		Comp	1	x	x	x																		
CS-83 (3.5')	11/3/2022	1pm	x		Comp	1	x	x	x																		
CS-84 (3.5')	11/3/2022	1pm	x		Comp	1	x	x	x																		
CS-85 (3.5')	11/3/2022	1pm	x		Comp	1	x	x	x																		
SW-1	11/3/2022	1pm	x		Comp	1	x	x	x																		
SW-2	11/3/2022	1pm	x		Comp	1	x	x	x																		
SW-3	11/3/2022	1pm	x		Comp	1	x	x	x																		
SW-4	11/3/2022	1pm	x		Comp	1	x	x	x																		
SW-5	11/3/2022	1pm	x		Comp	1	x	x	x																		

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	11-4-22 1245	2		
3			4		
5			6		



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---

November 08, 2022

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: RAGIN CAJUN 13 - 1

Enclosed are the results of analyses for samples received by the laboratory on 11/04/22 12:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 6 (H225228-01)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2022	ND	1.81	90.4	2.00	8.83	
Toluene*	<0.050	0.050	11/07/2022	ND	1.99	99.6	2.00	6.72	
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	6.97	
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.0	6.00	7.62	
Total BTEX	<0.300	0.300	11/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	11/07/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	182	91.2	200	2.18	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	181	90.7	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 81.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.7 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 7 (H225228-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2022	ND	1.81	90.4	2.00	8.83	
Toluene*	<0.050	0.050	11/07/2022	ND	1.99	99.6	2.00	6.72	
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	6.97	
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.0	6.00	7.62	
Total BTEX	<0.300	0.300	11/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/07/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	182	91.2	200	2.18	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	181	90.7	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 74.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.0 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 8 (H225228-03)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.81	90.4	2.00	8.83		
Toluene*	<0.050	0.050	11/07/2022	ND	1.99	99.6	2.00	6.72		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	6.97		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.0	6.00	7.62		
Total BTEX	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	11/07/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	178	89.1	200	1.08	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	204	102	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 9 (H225228-04)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2022	ND	1.81	90.4	2.00	8.83	
Toluene*	<0.050	0.050	11/07/2022	ND	1.99	99.6	2.00	6.72	
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	6.97	
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.0	6.00	7.62	
Total BTEX	<0.300	0.300	11/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/07/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	178	89.1	200	1.08	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	204	102	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 10 (H225228-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.81	90.4	2.00	8.83		
Toluene*	<0.050	0.050	11/07/2022	ND	1.99	99.6	2.00	6.72		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	6.97		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.0	6.00	7.62		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/07/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	178	89.1	200	1.08	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	204	102	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 11 (H225228-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.81	90.4	2.00	8.83		
Toluene*	<0.050	0.050	11/07/2022	ND	1.99	99.6	2.00	6.72		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	6.97		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.0	6.00	7.62		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	11/07/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	178	89.1	200	1.08	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	204	102	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 99.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 12 (H225228-07)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.81	90.4	2.00	8.83		
Toluene*	<0.050	0.050	11/07/2022	ND	1.99	99.6	2.00	6.72		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	6.97		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.0	6.00	7.62		
Total BTEX	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	11/07/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	178	89.1	200	1.08	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	204	102	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 99.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 13 (H225228-08)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.81	90.4	2.00	8.83		
Toluene*	<0.050	0.050	11/07/2022	ND	1.99	99.6	2.00	6.72		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	6.97		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.0	6.00	7.62		
Total BTEX	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/07/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	178	89.1	200	1.08	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	204	102	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 113 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 14 (H225228-09)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.81	90.4	2.00	8.83		
Toluene*	<0.050	0.050	11/07/2022	ND	1.99	99.6	2.00	6.72		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	6.97		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.0	6.00	7.62		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	11/07/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	178	89.1	200	1.08	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	204	102	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 15 (H225228-10)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.81	90.4	2.00	8.83		
Toluene*	<0.050	0.050	11/07/2022	ND	1.99	99.6	2.00	6.72		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	6.97		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.64	94.0	6.00	7.62		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	11/07/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	178	89.1	200	1.08	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	204	102	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 90.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 16 (H225228-11)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.87	93.7	2.00	8.09		
Toluene*	<0.050	0.050	11/07/2022	ND	1.91	95.3	2.00	7.42		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	7.49		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.74	95.6	6.00	7.45		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	178	89.1	200	1.08	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	204	102	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 84.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 17 (H225228-12)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.87	93.7	2.00	8.09		
Toluene*	<0.050	0.050	11/07/2022	ND	1.91	95.3	2.00	7.42		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	7.49		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.74	95.6	6.00	7.45		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	178	89.1	200	1.08	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	204	102	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 94.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 18 (H225228-13)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2022	ND	1.87	93.7	2.00	8.09	
Toluene*	<0.050	0.050	11/07/2022	ND	1.91	95.3	2.00	7.42	
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	7.49	
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.74	95.6	6.00	7.45	
Total BTEX	<0.300	0.300	11/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	11/07/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	178	89.1	200	1.08	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	204	102	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 19 (H225228-14)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.87	93.7	2.00	8.09		
Toluene*	<0.050	0.050	11/07/2022	ND	1.91	95.3	2.00	7.42		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	7.49		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.74	95.6	6.00	7.45		
Total BTEX	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6320	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	178	89.1	200	1.08	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	204	102	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 98.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 20 (H225228-15)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.87	93.7	2.00	8.09		
Toluene*	<0.050	0.050	11/07/2022	ND	1.91	95.3	2.00	7.42		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	7.49		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.74	95.6	6.00	7.45		
Total BTEX	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1800	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	178	89.1	200	1.08	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	204	102	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 98.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 21 (H225228-16)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.87	93.7	2.00	8.09		
Toluene*	<0.050	0.050	11/07/2022	ND	1.91	95.3	2.00	7.42		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	7.49		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.74	95.6	6.00	7.45		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1380	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	178	89.1	200	1.08	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	204	102	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 89.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 22 (H225228-17)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.87	93.7	2.00	8.09		
Toluene*	<0.050	0.050	11/07/2022	ND	1.91	95.3	2.00	7.42		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	7.49		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.74	95.6	6.00	7.45		
Total BTEX	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	178	89.1	200	1.08	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	204	102	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 23 (H225228-18)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.87	93.7	2.00	8.09		
Toluene*	<0.050	0.050	11/07/2022	ND	1.91	95.3	2.00	7.42		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	7.49		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.74	95.6	6.00	7.45		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2920	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	178	89.1	200	1.08	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	204	102	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 97.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 24 (H225228-19)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.87	93.7	2.00	8.09		
Toluene*	<0.050	0.050	11/07/2022	ND	1.91	95.3	2.00	7.42		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	7.49		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.74	95.6	6.00	7.45		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	178	89.1	200	1.08	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	204	102	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 91.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 25 (H225228-20)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.87	93.7	2.00	8.09		
Toluene*	<0.050	0.050	11/07/2022	ND	1.91	95.3	2.00	7.42		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	7.49		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.74	95.6	6.00	7.45		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	178	89.1	200	1.08	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	204	102	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 89.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.2 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 26 (H225228-21)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.87	93.7	2.00	8.09		
Toluene*	<0.050	0.050	11/07/2022	ND	1.91	95.3	2.00	7.42		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	7.49		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.74	95.6	6.00	7.45		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	178	89.1	200	1.08	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	204	102	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 87.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 27 (H225228-22)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.87	93.7	2.00	8.09		
Toluene*	<0.050	0.050	11/07/2022	ND	1.91	95.3	2.00	7.42		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	7.49		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.74	95.6	6.00	7.45		
Total BTEX	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1700	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	178	89.1	200	1.08	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	204	102	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 89.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 28 (H225228-23)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.87	93.7	2.00	8.09		
Toluene*	<0.050	0.050	11/07/2022	ND	1.91	95.3	2.00	7.42		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	7.49		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.74	95.6	6.00	7.45		
Total BTEx	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	11/07/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	193	96.3	200	7.83	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	196	98.2	200	4.04	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 99.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 29 (H225228-24)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.87	93.7	2.00	8.09		
Toluene*	<0.050	0.050	11/07/2022	ND	1.91	95.3	2.00	7.42		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	7.49		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.74	95.6	6.00	7.45		
Total BTEX	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	193	96.3	200	7.83	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	196	98.2	200	4.04	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 95.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 11/04/2022  
 Reported: 11/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226363  
 Project Location: DEVON - LEA CO NM

Sampling Date: 11/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 30 (H225228-25)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2022	ND	1.87	93.7	2.00	8.09		
Toluene*	<0.050	0.050	11/07/2022	ND	1.91	95.3	2.00	7.42		
Ethylbenzene*	<0.050	0.050	11/07/2022	ND	1.88	93.8	2.00	7.49		
Total Xylenes*	<0.150	0.150	11/07/2022	ND	5.74	95.6	6.00	7.45		
Total BTEX	<0.300	0.300	11/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	11/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2022	ND	193	96.3	200	7.83	
DRO >C10-C28*	<10.0	10.0	11/07/2022	ND	196	98.2	200	4.04	
EXT DRO >C28-C36	<10.0	10.0	11/07/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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### Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager

## Chain of Custody

Work Order No: H22522Page 10 of 12

Page 28 of 30

Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	Wesley.Mathews@dmv.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:

Project Name:	Ragin Cajun 13-1		Turn Around		Pres. Code	ANALYSIS REQUEST																Preservative Codes					
Project Number:	226363		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			Parameters	BTEX 8021B TPH 8015M (GRO + DRO + MRO) Chloride 4500																None: NO DI Water: H <sub>2</sub> O				
Project Location:	Lea Co. NM		Due Date: 48 Hr																				Cool: Cool MeOH: Me				
Sampler's Name:	Kenny Han		TAT starts the day received by the lab, if received by 4:30pm																				HCL: HC HNO <sub>3</sub> : HN				
PO #:	21073110																					H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na					
SAMPLE RECEIPT			Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																	H <sub>3</sub> PO <sub>4</sub> : HP				
Received Intact:			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:																		NaHSO <sub>4</sub> : NABIS					
Cooler Custody Seals:			Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Correction Factor:																		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>					
Sample Custody Seals:			Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Temperature Reading:																		Zn Acetate+NaOH: Zn					
Total Containers:			115		Corrected Temperature:																		NaOH+Ascorbic Acid: SAPC				
Sample Identification			Date	Time	Soil	Water	Grab/Comp	# of Cont																	Sample Comments		
SW-6			11/3/2022	1pm	x		Comp	1	x	x	x																
SW-7			11/3/2022	1pm	x		Comp	1	x	x	x																
SW-8			11/3/2022	1pm	x		Comp	1	x	x	x																
SW-9			11/3/2022	1pm	x		Comp	1	x	x	x																
SW-10			11/3/2022	1pm	x		Comp	1	x	x	x																
SW-11			11/3/2022	1pm	x		Comp	1	x	x	x																
SW-12			11/3/2022	1pm	x		Comp	1	x	x	x																
SW-13			11/3/2022	1pm	x		Comp	1	x	x	x																
SW-14			11/3/2022	1pm	x		Comp	1	x	x	x																
SW-15			11/3/2022	1pm	x		Comp	1	x	x	x																

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	11-4-22 1245	2		
3			4		
5			6		





## Chain of Custody

Work Order No: H225228

Page 11 of 12

Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	Wesley.Mathews@devon.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name:	Ragin Cajun 13-1		Turn Around		Pres. Code	ANALYSIS REQUEST																Preservative Codes					
Project Number:	226363		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			Parameters	BTEX 8021B TPH 8015M (GRO + DRO + MRO) Chloride 4500																None: NO DI Water: H <sub>2</sub> O				
Project Location:	Lea Co. NM		Due Date:	48 Hr																			Cool: Cool MeOH: Me				
Sampler's Name:	Kenny Han		TAT starts the day received by the lab, if received by 4:30pm																				HCL: HC HNO <sub>3</sub> : HN				
PO #:	21073110																					H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na					
SAMPLE RECEIPT			Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	HOLD H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC																Sample Comments				
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	115																								
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Correction Factor:	-0.06																								
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Temperature Reading:	5.0																								
Total Containers:	115	Corrected Temperature:	4.4																								
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont																					
SW-16	11/3/2022	1pm	x		Comp	1	x	x	x																		
SW-17	11/3/2022	1pm	x		Comp	1	x	x	x																		
SW-18	11/3/2022	1pm	x		Comp	1	x	x	x																		
SW-19	11/3/2022	1pm	x		Comp	1	x	x	x																		
SW-20	11/3/2022	1pm	x		Comp	1	x	x	x																		
SW-21	11/3/2022	1pm	x		Comp	1	x	x	x																		
SW-22	11/3/2022	1pm	x		Comp	1	x	x	x																		
SW-23	11/3/2022	1pm	x		Comp	1	x	x	x																		
SW-24	11/3/2022	1pm	x		Comp	1	x	x	x																		
SW-25	11/3/2022	1pm	x		Comp	1	x	x	x																		

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	11-4-22 1245	2		
3			4		
5			6		





## Chain of Custody

Work Order No: H22522

Page 12 of 12

Page 30 of 30

Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	<a href="mailto:Wesley.Mathews@dvn.com">Wesley.Mathews@dvn.com</a>

Work Order Comments			
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/>	Brownfields <input type="checkbox"/> RRC <input type="checkbox"/>	uperfund <input type="checkbox"/>
State of Project:			
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/>	PST/UST <input type="checkbox"/> RRP <input type="checkbox"/>	Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/>	ADaPT <input type="checkbox"/>	Other: _____

[illegible]

Additional Comments:

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Relinquished by: (Signature)						Received by: (Signature)						Date/Time		Relinquished by: (Signature)						Received by: (Signature)						Date/Time	
1 <i>[Signature]</i>						<i>[Signature]</i>						11-4-22 1245		2													
3												4															
5												6															



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

December 08, 2022

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: RAGIN CAJUN 13 - 1

Enclosed are the results of analyses for samples received by the laboratory on 12/06/22 11:31.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/06/2022  
 Reported: 12/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226362 (7.21.22)  
 Project Location: DEVON - LEA CO NM

Sampling Date: 12/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 10 (4.5') (H225719-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2022	ND	2.10	105	2.00	1.86	
Toluene*	<0.050	0.050	12/07/2022	ND	2.19	110	2.00	0.562	
Ethylbenzene*	<0.050	0.050	12/07/2022	ND	2.17	109	2.00	1.55	
Total Xylenes*	<0.150	0.150	12/07/2022	ND	6.71	112	6.00	1.82	
Total BTEX	<0.300	0.300	12/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	187	93.4	200	6.35	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	196	98.2	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 69.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 72.6 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/06/2022  
 Reported: 12/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226362 (7.21.22)  
 Project Location: DEVON - LEA CO NM

Sampling Date: 12/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 20 (4.5') (H225719-02)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2022	ND	2.10	105	2.00	1.86	
Toluene*	<0.050	0.050	12/07/2022	ND	2.19	110	2.00	0.562	
Ethylbenzene*	<0.050	0.050	12/07/2022	ND	2.17	109	2.00	1.55	
Total Xylenes*	<0.150	0.150	12/07/2022	ND	6.71	112	6.00	1.82	
Total BTEx	<0.300	0.300	12/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/07/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	187	93.4	200	6.35	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	196	98.2	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 79.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.8 % 46.3-178

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/06/2022  
 Reported: 12/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226362 (7.21.22)  
 Project Location: DEVON - LEA CO NM

Sampling Date: 12/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 21 (4.5') (H225719-03)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2022	ND	2.10	105	2.00	1.86	
Toluene*	<0.050	0.050	12/07/2022	ND	2.19	110	2.00	0.562	
Ethylbenzene*	<0.050	0.050	12/07/2022	ND	2.17	109	2.00	1.55	
Total Xylenes*	<0.150	0.150	12/07/2022	ND	6.71	112	6.00	1.82	
Total BTEx	<0.300	0.300	12/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	12/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	187	93.4	200	6.35	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	196	98.2	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 70.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.4 % 46.3-178

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/06/2022  
 Reported: 12/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226362 (7.21.22)  
 Project Location: DEVON - LEA CO NM

Sampling Date: 12/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 22 (4.5') (H225719-04)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2022	ND	2.10	105	2.00	1.86	
Toluene*	<0.050	0.050	12/07/2022	ND	2.19	110	2.00	0.562	
Ethylbenzene*	<0.050	0.050	12/07/2022	ND	2.17	109	2.00	1.55	
Total Xylenes*	<0.150	0.150	12/07/2022	ND	6.71	112	6.00	1.82	
Total BTEx	<0.300	0.300	12/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	187	93.4	200	6.35	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	196	98.2	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 75.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.8 % 46.3-178

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/06/2022  
 Reported: 12/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226362 (7.21.22)  
 Project Location: DEVON - LEA CO NM

Sampling Date: 12/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 23 (4.5') (H225719-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/07/2022	ND	2.10	105	2.00	1.86		
Toluene*	<0.050	0.050	12/07/2022	ND	2.19	110	2.00	0.562		
Ethylbenzene*	<0.050	0.050	12/07/2022	ND	2.17	109	2.00	1.55		
Total Xylenes*	<0.150	0.150	12/07/2022	ND	6.71	112	6.00	1.82		
Total BTEx	<0.300	0.300	12/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	12/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	187	93.4	200	6.35	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	196	98.2	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 78.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.1 % 46.3-178

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/06/2022  
 Reported: 12/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226362 (7.21.22)  
 Project Location: DEVON - LEA CO NM

Sampling Date: 12/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 24 (4.5') (H225719-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/07/2022	ND	2.10	105	2.00	1.86		
Toluene*	<0.050	0.050	12/07/2022	ND	2.19	110	2.00	0.562		
Ethylbenzene*	<0.050	0.050	12/07/2022	ND	2.17	109	2.00	1.55		
Total Xylenes*	<0.150	0.150	12/07/2022	ND	6.71	112	6.00	1.82		
Total BTEx	<0.300	0.300	12/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	12/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	187	93.4	200	6.35	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	196	98.2	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 68.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 72.8 % 46.3-178

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/06/2022  
 Reported: 12/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226362 (7.21.22)  
 Project Location: DEVON - LEA CO NM

Sampling Date: 12/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 26 (8') (H225719-07)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/07/2022	ND	2.10	105	2.00	1.86		
Toluene*	<0.050	0.050	12/07/2022	ND	2.19	110	2.00	0.562		
Ethylbenzene*	<0.050	0.050	12/07/2022	ND	2.17	109	2.00	1.55		
Total Xylenes*	<0.150	0.150	12/07/2022	ND	6.71	112	6.00	1.82		
Total BTEx	<0.300	0.300	12/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	187	93.4	200	6.35	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	196	98.2	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 64.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 68.6 % 46.3-178

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/06/2022  
 Reported: 12/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226362 (7.21.22)  
 Project Location: DEVON - LEA CO NM

Sampling Date: 12/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 28 (4.5') (H225719-08)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/07/2022	ND	2.10	105	2.00	1.86		
Toluene*	<0.050	0.050	12/07/2022	ND	2.19	110	2.00	0.562		
Ethylbenzene*	<0.050	0.050	12/07/2022	ND	2.17	109	2.00	1.55		
Total Xylenes*	<0.150	0.150	12/07/2022	ND	6.71	112	6.00	1.82		
Total BTEx	<0.300	0.300	12/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	12/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	187	93.4	200	6.35	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	196	98.2	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 72.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.8 % 46.3-178

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/06/2022  
 Reported: 12/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226362 (7.21.22)  
 Project Location: DEVON - LEA CO NM

Sampling Date: 12/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 29 (4.5') (H225719-09)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/07/2022	ND	2.10	105	2.00	1.86		
Toluene*	<0.050	0.050	12/07/2022	ND	2.19	110	2.00	0.562		
Ethylbenzene*	<0.050	0.050	12/07/2022	ND	2.17	109	2.00	1.55		
Total Xylenes*	<0.150	0.150	12/07/2022	ND	6.71	112	6.00	1.82		
Total BTEX	<0.300	0.300	12/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	187	93.4	200	6.35	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	196	98.2	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 71.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.6 % 46.3-178

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/06/2022  
 Reported: 12/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226362 (7.21.22)  
 Project Location: DEVON - LEA CO NM

Sampling Date: 12/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 31 (8') (H225719-10)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2022	ND	2.10	105	2.00	1.86	
Toluene*	<0.050	0.050	12/07/2022	ND	2.19	110	2.00	0.562	
Ethylbenzene*	<0.050	0.050	12/07/2022	ND	2.17	109	2.00	1.55	
Total Xylenes*	<0.150	0.150	12/07/2022	ND	6.71	112	6.00	1.82	
Total BTEX	<0.300	0.300	12/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	187	93.4	200	6.35	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	196	98.2	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 64.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 68.5 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/06/2022  
 Reported: 12/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226362 (7.21.22)  
 Project Location: DEVON - LEA CO NM

Sampling Date: 12/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 32 (4.5') (H225719-11)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/07/2022	ND	2.10	105	2.00	1.86		
Toluene*	<0.050	0.050	12/07/2022	ND	2.19	110	2.00	0.562		
Ethylbenzene*	<0.050	0.050	12/07/2022	ND	2.17	109	2.00	1.55		
Total Xylenes*	<0.150	0.150	12/07/2022	ND	6.71	112	6.00	1.82		
Total BTEx	<0.300	0.300	12/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	12/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	187	93.4	200	6.35	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	196	98.2	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 75.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.3 % 46.3-178

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/06/2022  
 Reported: 12/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226362 (7.21.22)  
 Project Location: DEVON - LEA CO NM

Sampling Date: 12/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 38 (4.5') (H225719-12)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/07/2022	ND	2.10	105	2.00	1.86		
Toluene*	<0.050	0.050	12/07/2022	ND	2.19	110	2.00	0.562		
Ethylbenzene*	<0.050	0.050	12/07/2022	ND	2.17	109	2.00	1.55		
Total Xylenes*	<0.150	0.150	12/07/2022	ND	6.71	112	6.00	1.82		
Total BTEx	<0.300	0.300	12/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	12/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	187	93.4	200	6.35	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	196	98.2	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 79.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.2 % 46.3-178

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/06/2022  
 Reported: 12/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226362 (7.21.22)  
 Project Location: DEVON - LEA CO NM

Sampling Date: 12/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 39 (4.5') (H225719-13)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/07/2022	ND	2.10	105	2.00	1.86		
Toluene*	<0.050	0.050	12/07/2022	ND	2.19	110	2.00	0.562		
Ethylbenzene*	<0.050	0.050	12/07/2022	ND	2.17	109	2.00	1.55		
Total Xylenes*	<0.150	0.150	12/07/2022	ND	6.71	112	6.00	1.82		
Total BTEx	<0.300	0.300	12/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	12/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	187	93.4	200	6.35	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	196	98.2	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 67.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 70.6 % 46.3-178

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/06/2022  
 Reported: 12/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226362 (7.21.22)  
 Project Location: DEVON - LEA CO NM

Sampling Date: 12/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 40 (8') (H225719-14)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/07/2022	ND	2.10	105	2.00	1.86		
Toluene*	<0.050	0.050	12/07/2022	ND	2.19	110	2.00	0.562		
Ethylbenzene*	<0.050	0.050	12/07/2022	ND	2.17	109	2.00	1.55		
Total Xylenes*	<0.150	0.150	12/07/2022	ND	6.71	112	6.00	1.82		
Total BTEX	<0.300	0.300	12/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	187	93.4	200	6.35	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	196	98.2	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 77.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.5 % 46.3-178

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/06/2022  
 Reported: 12/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226362 (7.21.22)  
 Project Location: DEVON - LEA CO NM

Sampling Date: 12/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 44 (3') (H225719-15)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/07/2022	ND	2.10	105	2.00	1.86		
Toluene*	<0.050	0.050	12/07/2022	ND	2.19	110	2.00	0.562		
Ethylbenzene*	<0.050	0.050	12/07/2022	ND	2.17	109	2.00	1.55		
Total Xylenes*	<0.150	0.150	12/07/2022	ND	6.71	112	6.00	1.82		
Total BTEx	<0.300	0.300	12/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	12/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	187	93.4	200	6.35	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	196	98.2	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 77.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.6 % 46.3-178

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/06/2022  
 Reported: 12/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226362 (7.21.22)  
 Project Location: DEVON - LEA CO NM

Sampling Date: 12/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 46 (4.5') (H225719-16)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2022	ND	2.10	105	2.00	1.86	
Toluene*	<0.050	0.050	12/07/2022	ND	2.19	110	2.00	0.562	
Ethylbenzene*	<0.050	0.050	12/07/2022	ND	2.17	109	2.00	1.55	
Total Xylenes*	<0.150	0.150	12/07/2022	ND	6.71	112	6.00	1.82	
Total BTEx	<0.300	0.300	12/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	187	93.4	200	6.35	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	196	98.2	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 58.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 61.2 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/06/2022  
 Reported: 12/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226362 (7.21.22)  
 Project Location: DEVON - LEA CO NM

Sampling Date: 12/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 47 (4.5') (H225719-17)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/07/2022	ND	2.10	105	2.00	1.86		
Toluene*	<0.050	0.050	12/07/2022	ND	2.19	110	2.00	0.562		
Ethylbenzene*	<0.050	0.050	12/07/2022	ND	2.17	109	2.00	1.55		
Total Xylenes*	<0.150	0.150	12/07/2022	ND	6.71	112	6.00	1.82		
Total BTEx	<0.300	0.300	12/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	12/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	187	93.4	200	6.35	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	196	98.2	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 85.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.8 % 46.3-178

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/06/2022  
 Reported: 12/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226362 (7.21.22)  
 Project Location: DEVON - LEA CO NM

Sampling Date: 12/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 48 (4.5') (H225719-18)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2022	ND	2.10	105	2.00	1.86	
Toluene*	<0.050	0.050	12/07/2022	ND	2.19	110	2.00	0.562	
Ethylbenzene*	<0.050	0.050	12/07/2022	ND	2.17	109	2.00	1.55	
Total Xylenes*	<0.150	0.150	12/07/2022	ND	6.71	112	6.00	1.82	
Total BTEx	<0.300	0.300	12/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	12/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	187	93.4	200	6.35	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	196	98.2	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 84.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.2 % 46.3-178

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/06/2022  
 Reported: 12/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226362 (7.21.22)  
 Project Location: DEVON - LEA CO NM

Sampling Date: 12/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 49 (8') (H225719-19)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/07/2022	ND	2.10	105	2.00	1.86		
Toluene*	<0.050	0.050	12/07/2022	ND	2.19	110	2.00	0.562		
Ethylbenzene*	<0.050	0.050	12/07/2022	ND	2.17	109	2.00	1.55		
Total Xylenes*	<0.150	0.150	12/07/2022	ND	6.71	112	6.00	1.82		
Total BTEX	<0.300	0.300	12/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	12/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	201	100	200	5.42	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	194	96.9	200	0.287	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 78.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.6 % 46.3-178

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/06/2022  
 Reported: 12/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226362 (7.21.22)  
 Project Location: DEVON - LEA CO NM

Sampling Date: 12/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 51 (3') (H225719-20)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/07/2022	ND	2.10	105	2.00	1.86		
Toluene*	<0.050	0.050	12/07/2022	ND	2.19	110	2.00	0.562		
Ethylbenzene*	<0.050	0.050	12/07/2022	ND	2.17	109	2.00	1.55		
Total Xylenes*	<0.150	0.150	12/07/2022	ND	6.71	112	6.00	1.82		
Total BTEx	<0.300	0.300	12/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	12/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	201	100	200	5.42	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	194	96.9	200	0.287	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 89.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.8 % 46.3-178

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/06/2022  
 Reported: 12/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226362 (7.21.22)  
 Project Location: DEVON - LEA CO NM

Sampling Date: 12/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 56 (4.5') (H225719-21)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2022	ND	2.13	106	2.00	2.58	
Toluene*	<0.050	0.050	12/07/2022	ND	2.13	106	2.00	3.28	
Ethylbenzene*	<0.050	0.050	12/07/2022	ND	2.12	106	2.00	4.07	
Total Xylenes*	<0.150	0.150	12/07/2022	ND	6.47	108	6.00	1.54	
Total BTEx	<0.300	0.300	12/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	12/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	201	100	200	5.42	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	194	96.9	200	0.287	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 85.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.7 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/06/2022  
 Reported: 12/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226362 (7.21.22)  
 Project Location: DEVON - LEA CO NM

Sampling Date: 12/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 57 (4.5') (H225719-22)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2022	ND	2.13	106	2.00	2.58	
Toluene*	<0.050	0.050	12/07/2022	ND	2.13	106	2.00	3.28	
Ethylbenzene*	<0.050	0.050	12/07/2022	ND	2.12	106	2.00	4.07	
Total Xylenes*	<0.150	0.150	12/07/2022	ND	6.47	108	6.00	1.54	
Total BTEx	<0.300	0.300	12/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	201	100	200	5.42	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	194	96.9	200	0.287	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 88.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.9 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/06/2022  
 Reported: 12/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226362 (7.21.22)  
 Project Location: DEVON - LEA CO NM

Sampling Date: 12/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 58 (4.5') (H225719-23)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2022	ND	2.13	106	2.00	2.58	
Toluene*	<0.050	0.050	12/07/2022	ND	2.13	106	2.00	3.28	
Ethylbenzene*	<0.050	0.050	12/07/2022	ND	2.12	106	2.00	4.07	
Total Xylenes*	<0.150	0.150	12/07/2022	ND	6.47	108	6.00	1.54	
Total BTEx	<0.300	0.300	12/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	201	100	200	5.42	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	194	96.9	200	0.287	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 94.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/06/2022  
 Reported: 12/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226362 (7.21.22)  
 Project Location: DEVON - LEA CO NM

Sampling Date: 12/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 61 (4.5') (H225719-24)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2022	ND	2.13	106	2.00	2.58	
Toluene*	<0.050	0.050	12/07/2022	ND	2.13	106	2.00	3.28	
Ethylbenzene*	<0.050	0.050	12/07/2022	ND	2.12	106	2.00	4.07	
Total Xylenes*	<0.150	0.150	12/07/2022	ND	6.47	108	6.00	1.54	
Total BTEX	<0.300	0.300	12/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/07/2022	ND	416			7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	201	100	200	5.42	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	194	96.9	200	0.287	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 94.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/06/2022  
 Reported: 12/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226362 (7.21.22)  
 Project Location: DEVON - LEA CO NM

Sampling Date: 12/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 64 (4.5') (H225719-25)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2022	ND	2.13	106	2.00	2.58	
Toluene*	<0.050	0.050	12/07/2022	ND	2.13	106	2.00	3.28	
Ethylbenzene*	<0.050	0.050	12/07/2022	ND	2.12	106	2.00	4.07	
Total Xylenes*	<0.150	0.150	12/07/2022	ND	6.47	108	6.00	1.54	
Total BTEx	<0.300	0.300	12/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/07/2022	ND	416			7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	201	100	200	5.42	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	194	96.9	200	0.287	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 86.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.8 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/06/2022  
 Reported: 12/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226362 (7.21.22)  
 Project Location: DEVON - LEA CO NM

Sampling Date: 12/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 65 (4.5') (H225719-26)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2022	ND	2.13	106	2.00	2.58	
Toluene*	<0.050	0.050	12/07/2022	ND	2.13	106	2.00	3.28	
Ethylbenzene*	<0.050	0.050	12/07/2022	ND	2.12	106	2.00	4.07	
Total Xylenes*	<0.150	0.150	12/07/2022	ND	6.47	108	6.00	1.54	
Total BTEx	<0.300	0.300	12/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/07/2022	ND	416			7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	201	100	200	5.42	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	194	96.9	200	0.287	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 90.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.6 % 46.3-178

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/06/2022  
 Reported: 12/08/2022  
 Project Name: RAGIN CAJUN 13 - 1  
 Project Number: 226362 (7.21.22)  
 Project Location: DEVON - LEA CO NM

Sampling Date: 12/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 66 (4.5') (H225719-27)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2022	ND	2.13	106	2.00	2.58	
Toluene*	<0.050	0.050	12/07/2022	ND	2.13	106	2.00	3.28	
Ethylbenzene*	<0.050	0.050	12/07/2022	ND	2.12	106	2.00	4.07	
Total Xylenes*	<0.150	0.150	12/07/2022	ND	6.47	108	6.00	1.54	
Total BTEx	<0.300	0.300	12/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/07/2022	ND	416			7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	201	100	200	5.42	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	194	96.9	200	0.287	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 91.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.6 % 46.3-178

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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---

### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

## Chain of Custody

Work Order No: 1025719-1-27Page 1 of 3

Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Hwy
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	WesleyMathews@dv.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name:		Ragin Cajun 13-1 (7.21.22)		Turn Around		ANALYSIS REQUEST												Preservative Codes									
Project Number:		226362		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush		Pres. Code														None: NO DI Water: H <sub>2</sub> O							
Project Location		Eddy Co. NM		Due Date:		48hr																Cool: Cool MeOH: Me					
Sampler's Name:		Jordan Tyner		TAT starts the day received by the lab, if received by 4:30pm																HCL: HC HNO <sub>3</sub> : HN							
PO #:		21053206																		H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na							
SAMPLE RECEIPT		Temp Blank:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Wet Ice:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																H <sub>3</sub> PO <sub>4</sub> : HP			
Received Intact:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:		#113																NaHSO <sub>4</sub> : NABIS					
Cooler Custody Seals:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Correction Factor:		-0.66																Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>					
Sample Custody Seals:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Temperature Reading:		-12.6																Zn Acetate+NaOH: Zn					
Total Containers:		27		Corrected Temperature:		-12.6																NaOH+Ascorbic Acid: SAPC					
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont														Sample Comments	
CS-10 (4.5')		12/5/2022				X				Comp		1		X X X													
CS-20 (4.5')		12/5/2022				X				Comp		1		X X X													
CS-21 (4.5')		12/5/2022				X				Comp		1		X X X													
CS-22 (4.5')		12/5/2022				X				Comp		1		X X X													
CS-23 (4.5')		12/5/2022				X				Comp		1		X X X													
CS-24 (4.5')		12/5/2022				X				Comp		1		X X X													
CS-26 (8')		12/5/2022				X				Comp		1		X X X													
CS-28 (4.5')		12/5/2022				X				Comp		1		X X X													
CS-29 (4.5')		12/5/2022				X				Comp		1		X X X													
CS-31 (8')		12/5/2022				X				Comp		1		X X X													

Additional Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)		Received by: (Signature)		Date/Time		Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
1				12/12/22 1131		2					
3						4					
5						6					



## Chain of Custody

Work Order No: 1925719-127

Page 2 of 3

Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Hwy
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	WesleyMathews@dm.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name:		Ragin Cajun 13-1 (7.21.22)		Turn Around		ANALYSIS REQUEST										Preservative Codes					
Project Number:		226362		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush												None: NO DI Water: H <sub>2</sub> O					
Project Location:		Eddy Co. NM		Due Date:		48hr												Cool: Cool MeOH: Me			
Sampler's Name:		Jordan Tyner		TAT starts the day received by the lab, if received by 4:30pm												HCL: HC HNO <sub>3</sub> : HN					
PO #:		21053206														H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na					
SAMPLE RECEIPT		Temp Blank:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Wet Ice:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>												H <sub>3</sub> PO <sub>4</sub> : HP	
Received Intact:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:		#113												NaHSO <sub>4</sub> : NABIS			
Cooler Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Correction Factor:		-0.6												Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>			
Sample Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Temperature Reading:		-12.5												Zn Acetate+NaOH: Zn			
Total Containers:		27		Corrected Temperature:		-12.6												NaOH+Ascorbic Acid: SAPC			
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments			
CS-32 (4.5')		12/5/2022		X		Comp	1	X	X	X											
CS-38 (4.5')		12/5/2022		X		Comp	1	X	X	X											
CS-39 (4.5')		12/5/2022		X		Comp	1	X	X	X											
CS-40 (8')		12/5/2022		X		Comp	1	X	X	X											
CS-44 (3')		12/5/2022		X		Comp	1	X	X	X											
CS-46 (4.5')		12/5/2022		X		Comp	1	X	X	X											
CS-47 (4.5')		12/5/2022		X		Comp	1	X	X	X											
CS-48 (4.5')		12/5/2022		X		Comp	1	X	X	X											
CS-49 (8')		12/5/2022		X		Comp	1	X	X	X											
CS-51 (3')		12/5/2022		X		Comp	1	X	X	X											

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		12/6/22 1131	2		
3			4		
5			6		





## Chain of Custody

Work Order No: H25719-1-27

Page 3 of 3



Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Hwy
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	<a href="mailto:WesleyMathews@dv.com">WesleyMathews@dv.com</a>

Work Order Comments
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/> State of Project: Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:

[illegible]

Additional Comments:

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Relinquished by: (Signature)		Received by: (Signature)		Date/Time		Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
1				12/6/22	1131	2					
3						4					
5						6					

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

December 21, 2022

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: RAGIN CAJUN 13 - 1

Enclosed are the results of analyses for samples received by the laboratory on 12/06/22 11:31.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS - 67 (4.5')	H225718-01	Soil	05-Dec-22 00:00	06-Dec-22 11:31
CS - 71 (4.5')	H225718-02	Soil	05-Dec-22 00:00	06-Dec-22 11:31
CS - 72 (4.5')	H225718-03	Soil	05-Dec-22 00:00	06-Dec-22 11:31
CS - 73 (4.5')	H225718-04	Soil	05-Dec-22 00:00	06-Dec-22 11:31
CS - 74 (4.5')	H225718-05	Soil	05-Dec-22 00:00	06-Dec-22 11:31
CS - 75 (4.5')	H225718-06	Soil	05-Dec-22 00:00	06-Dec-22 11:31
CS - 76 (4.5')	H225718-07	Soil	05-Dec-22 00:00	06-Dec-22 11:31
SW - 31	H225718-08	Soil	05-Dec-22 00:00	06-Dec-22 11:31
SW - 32	H225718-09	Soil	05-Dec-22 00:00	06-Dec-22 11:31
SW - 33	H225718-10	Soil	05-Dec-22 00:00	06-Dec-22 11:31
SW - 34	H225718-11	Soil	05-Dec-22 00:00	06-Dec-22 11:31
SW - 35	H225718-12	Soil	05-Dec-22 00:00	06-Dec-22 11:31
SW - 36	H225718-13	Soil	05-Dec-22 00:00	06-Dec-22 11:31
SW - 37	H225718-14	Soil	05-Dec-22 00:00	06-Dec-22 11:31
SW - 38	H225718-15	Soil	05-Dec-22 00:00	06-Dec-22 11:31
SW - 39	H225718-16	Soil	05-Dec-22 00:00	06-Dec-22 11:31
SW - 40	H225718-17	Soil	05-Dec-22 00:00	06-Dec-22 11:31
SW - 41	H225718-18	Soil	05-Dec-22 00:00	06-Dec-22 11:31
SW - 42	H225718-19	Soil	05-Dec-22 00:00	06-Dec-22 11:31
SW - 43	H225718-20	Soil	05-Dec-22 00:00	06-Dec-22 11:31
SW - 44	H225718-21	Soil	05-Dec-22 00:00	06-Dec-22 11:31
SW - 45	H225718-22	Soil	05-Dec-22 00:00	06-Dec-22 11:31
SW - 46	H225718-23	Soil	05-Dec-22 00:00	06-Dec-22 11:31
SW - 47	H225718-24	Soil	05-Dec-22 00:00	06-Dec-22 11:31
SW - 48	H225718-25	Soil	05-Dec-22 00:00	06-Dec-22 11:31
SW - 49	H225718-26	Soil	05-Dec-22 00:00	06-Dec-22 11:31
SW - 50	H225718-27	Soil	05-Dec-22 00:00	06-Dec-22 11:31

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

12/21/22 - Client requested sample ID changes on 12/20/22 (see COC). This is the revised report and will replace the one sent on 12/08/22.

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**CS - 67 (4.5')**  
**H225718-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>224</b>		16.0	mg/kg	4	2120719	AC	07-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2120614	JH/	07-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2120614	JH/	07-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2120614	JH/	07-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2120614	JH/	07-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2120614	JH/	07-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140 2120614 JH/ 07-Dec-22 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2120633	MS	07-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2120633	MS	07-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2120633	MS	07-Dec-22	8015B	

Surrogate: 1-Chlorooctane 89.4 % 45.3-161 2120633 MS 07-Dec-22 8015B

Surrogate: 1-Chlorooctadecane 93.1 % 46.3-178 2120633 MS 07-Dec-22 8015B

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**CS - 71 (4.5')****H225718-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	2120719	AC	07-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2120631	MS	07-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2120631	MS	07-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2120631	MS	07-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2120631	MS	07-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2120631	MS	07-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %		69.9-140	2120631	MS	07-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2120633	MS	07-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2120633	MS	07-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2120633	MS	07-Dec-22	8015B	

Surrogate: 1-Chlorooctane			82.5 %		45.3-161	2120633	MS	07-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			86.1 %		46.3-178	2120633	MS	07-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**CS - 72 (4.5')****H225718-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2120719	AC	07-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2120631	MS	07-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2120631	MS	07-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2120631	MS	07-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2120631	MS	07-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2120631	MS	07-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140 2120631 MS 07-Dec-22 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2120633	MS	07-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2120633	MS	07-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2120633	MS	07-Dec-22	8015B	

Surrogate: 1-Chlorooctane 93.7 % 45.3-161 2120633 MS 07-Dec-22 8015B

Surrogate: 1-Chlorooctadecane 95.7 % 46.3-178 2120633 MS 07-Dec-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**CS - 73 (4.5')****H225718-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	2120719	AC	07-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2120631	MS	07-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2120631	MS	07-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2120631	MS	07-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2120631	MS	07-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2120631	MS	07-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140 2120631 MS 07-Dec-22 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2120633	MS	07-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2120633	MS	07-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2120633	MS	07-Dec-22	8015B	

Surrogate: 1-Chlorooctane 92.2 % 45.3-161 2120633 MS 07-Dec-22 8015B

Surrogate: 1-Chlorooctadecane 97.1 % 46.3-178 2120633 MS 07-Dec-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**CS - 74 (4.5')****H225718-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	2120719	AC	07-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2120631	MS	07-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2120631	MS	07-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2120631	MS	07-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2120631	MS	07-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2120631	MS	07-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	69.9-140		2120631	MS	07-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2120633	MS	07-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2120633	MS	07-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2120633	MS	07-Dec-22	8015B	

Surrogate: 1-Chlorooctane			89.1 %	45.3-161		2120633	MS	07-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			93.6 %	46.3-178		2120633	MS	07-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**CS - 75 (4.5')****H225718-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	2120719	AC	07-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2120631	MS	07-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2120631	MS	07-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2120631	MS	07-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2120631	MS	07-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2120631	MS	07-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %		69.9-140	2120631	MS	07-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	

Surrogate: 1-Chlorooctane			84.7 %		45.3-161	2120635	MS	07-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			95.8 %		46.3-178	2120635	MS	07-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**CS - 76 (4.5')****H225718-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	144		16.0	mg/kg	4	2120719	AC	07-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2120631	MS	07-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2120631	MS	07-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2120631	MS	07-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2120631	MS	07-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2120631	MS	07-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140 2120631 MS 07-Dec-22 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	

Surrogate: 1-Chlorooctane 83.0 % 45.3-161 2120635 MS 07-Dec-22 8015B

Surrogate: 1-Chlorooctadecane 97.9 % 46.3-178 2120635 MS 07-Dec-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**SW - 31****H225718-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	320		16.0	mg/kg	4	2120719	AC	07-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2120629	JH/	07-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	69.9-140		2120629	JH/	07-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	

Surrogate: 1-Chlorooctane			93.6 %	45.3-161		2120635	MS	07-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			109 %	46.3-178		2120635	MS	07-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**SW - 32****H225718-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	2120719	AC	07-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2120629	JH/	07-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140 2120629 JH/ 07-Dec-22 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	

Surrogate: 1-Chlorooctane 92.7 % 45.3-161 2120635 MS 07-Dec-22 8015B

Surrogate: 1-Chlorooctadecane 108 % 46.3-178 2120635 MS 07-Dec-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**SW - 33****H225718-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	320		16.0	mg/kg	4	2120719	AC	07-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2120629	JH/	07-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	69.9-140		2120629	JH/	07-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	

Surrogate: 1-Chlorooctane			85.8 %	45.3-161		2120635	MS	07-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			101 %	46.3-178		2120635	MS	07-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**SW - 34****H225718-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	2120724	AC	07-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2120629	JH/	07-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	69.9-140		2120629	JH/	07-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	

Surrogate: 1-Chlorooctane			86.4 %	45.3-161		2120635	MS	07-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			97.5 %	46.3-178		2120635	MS	07-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**SW - 35**  
**H225718-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>192</b>		16.0	mg/kg	4	2120724	AC	07-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2120629	JH/	07-Dec-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %		69.9-140	2120629	JH/	07-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			82.8 %		45.3-161	2120635	MS	07-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			96.1 %		46.3-178	2120635	MS	07-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**SW - 36**  
**H225718-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	2120724	AC	07-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2120629	JH/	07-Dec-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	69.9-140		2120629	JH/	07-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			91.4 %	45.3-161		2120635	MS	07-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			103 %	46.3-178		2120635	MS	07-Dec-22	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**SW - 37****H225718-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	304		16.0	mg/kg	4	2120724	AC	07-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2120629	JH/	07-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	69.9-140		2120629	JH/	07-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	

Surrogate: 1-Chlorooctane			88.4 %	45.3-161		2120635	MS	07-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			95.9 %	46.3-178		2120635	MS	07-Dec-22	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**SW - 38****H225718-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	256		16.0	mg/kg	4	2120724	AC	07-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2120629	JH/	07-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	69.9-140		2120629	JH/	07-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	

Surrogate: 1-Chlorooctane			90.7 %	45.3-161		2120635	MS	07-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			98.9 %	46.3-178		2120635	MS	07-Dec-22	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**SW - 39****H225718-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	2120724	AC	07-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2120629	JH/	07-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		109 %		69.9-140		2120629	JH/	07-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	

Surrogate: 1-Chlorooctane		82.7 %		45.3-161		2120635	MS	07-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane		93.1 %		46.3-178		2120635	MS	07-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**SW - 40****H225718-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	272		16.0	mg/kg	4	2120724	AC	07-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2120629	JH/	07-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %		69.9-140	2120629	JH/	07-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	

Surrogate: 1-Chlorooctane			93.2 %		45.3-161	2120635	MS	07-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			104 %		46.3-178	2120635	MS	07-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**SW - 41****H225718-18 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	144		16.0	mg/kg	4	2120724	AC	07-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2120629	JH/	07-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9-140		2120629	JH/	07-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	

Surrogate: 1-Chlorooctane			93.2 %	45.3-161		2120635	MS	07-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			104 %	46.3-178		2120635	MS	07-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**SW - 42****H225718-19 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2120724	AC	07-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2120629	JH/	07-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	69.9-140		2120629	JH/	07-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	

Surrogate: 1-Chlorooctane			85.3 %	45.3-161		2120635	MS	07-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			96.2 %	46.3-178		2120635	MS	07-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**SW - 43****H225718-20 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	2120724	AC	07-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2120629	JH/	07-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	69.9-140		2120629	JH/	07-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	

Surrogate: 1-Chlorooctane			91.6 %	45.3-161		2120635	MS	07-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			103 %	46.3-178		2120635	MS	07-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**SW - 44****H225718-21 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	2120724	AC	07-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2120629	JH/	07-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9-140		2120629	JH/	07-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	

Surrogate: 1-Chlorooctane			89.9 %	45.3-161		2120635	MS	07-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			100 %	46.3-178		2120635	MS	07-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**SW - 45****H225718-22 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	96.0		16.0	mg/kg	4	2120724	AC	07-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2120629	JH/	07-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	69.9-140		2120629	JH/	07-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	

Surrogate: 1-Chlorooctane			91.0 %	45.3-161		2120635	MS	07-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			102 %	46.3-178		2120635	MS	07-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**SW - 46****H225718-23 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	2120724	AC	07-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2120629	JH/	07-Dec-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			109 %		69.9-140	2120629	JH/	07-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			81.3 %		45.3-161	2120635	MS	07-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			93.7 %		46.3-178	2120635	MS	07-Dec-22	8015B	
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**SW - 47****H225718-24 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	256		16.0	mg/kg	4	2120724	AC	07-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2120629	JH/	07-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	69.9-140		2120629	JH/	07-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	

Surrogate: 1-Chlorooctane			90.9 %	45.3-161		2120635	MS	07-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			104 %	46.3-178		2120635	MS	07-Dec-22	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**SW - 48****H225718-25 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>160</b>		16.0	mg/kg	4	2120724	AC	07-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2120629	JH/	07-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %		69.9-140	2120629	JH/	07-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2120635	MS	07-Dec-22	8015B	

Surrogate: 1-Chlorooctane			87.0 %		45.3-161	2120635	MS	07-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			99.9 %		46.3-178	2120635	MS	07-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**SW - 49****H225718-26 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2120724	AC	07-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2120629	JH/	07-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %		69.9-140	2120629	JH/	07-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2120636	MS	07-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2120636	MS	07-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2120636	MS	07-Dec-22	8015B	

Surrogate: 1-Chlorooctane			80.1 %		45.3-161	2120636	MS	07-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			85.8 %		46.3-178	2120636	MS	07-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**SW - 50****H225718-27 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2120724	AC	07-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2120629	JH/	07-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2120629	JH/	07-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	69.9-140		2120629	JH/	07-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2120636	MS	07-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2120636	MS	07-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2120636	MS	07-Dec-22	8015B	

Surrogate: 1-Chlorooctane			85.1 %	45.3-161		2120636	MS	07-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			90.6 %	46.3-178		2120636	MS	07-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2120719 - 1:4 DI Water****Blank (2120719-BLK1)**

Prepared &amp; Analyzed: 07-Dec-22

Chloride	ND	16.0	mg/kg							
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**LCS (2120719-BS1)**

Prepared &amp; Analyzed: 07-Dec-22

Chloride	432	16.0	mg/kg	400		108	80-120			
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**LCS Dup (2120719-BSD1)**

Prepared &amp; Analyzed: 07-Dec-22

Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
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**Batch 2120724 - 1:4 DI Water****Blank (2120724-BLK1)**

Prepared &amp; Analyzed: 07-Dec-22

Chloride	ND	16.0	mg/kg							
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**LCS (2120724-BS1)**

Prepared &amp; Analyzed: 07-Dec-22

Chloride	432	16.0	mg/kg	400		108	80-120			
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**LCS Dup (2120724-BSD1)**

Prepared &amp; Analyzed: 07-Dec-22

Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2120614 - Volatiles****Blank (2120614-BLK1)**

Prepared &amp; Analyzed: 06-Dec-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0550		mg/kg	0.0500		110	69.9-140			

**LCS (2120614-BS1)**

Prepared &amp; Analyzed: 06-Dec-22

Benzene	2.16	0.050	mg/kg	2.00		108	83.4-122			
Toluene	2.19	0.050	mg/kg	2.00		110	84.2-126			
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	84.2-121			
m,p-Xylene	4.46	0.100	mg/kg	4.00		112	89.9-126			
o-Xylene	2.09	0.050	mg/kg	2.00		104	84.3-123			
Total Xylenes	6.55	0.150	mg/kg	6.00		109	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0531		mg/kg	0.0500		106	69.9-140			

**LCS Dup (2120614-BSD1)**

Prepared &amp; Analyzed: 06-Dec-22

Benzene	1.91	0.050	mg/kg	2.00		95.7	83.4-122	12.1	12.6	
Toluene	1.92	0.050	mg/kg	2.00		96.1	84.2-126	13.0	13.3	
Ethylbenzene	1.90	0.050	mg/kg	2.00		95.0	84.2-121	11.0	13.9	
m,p-Xylene	4.01	0.100	mg/kg	4.00		100	89.9-126	10.7	13.6	
o-Xylene	1.87	0.050	mg/kg	2.00		93.7	84.3-123	10.8	14.1	
Total Xylenes	5.88	0.150	mg/kg	6.00		98.0	89.1-124	10.8	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0534		mg/kg	0.0500		107	69.9-140			

**Batch 2120629 - Volatiles****Blank (2120629-BLK1)**

Prepared: 06-Dec-22 Analyzed: 07-Dec-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2120629 - Volatiles****Blank (2120629-BLK1)**

Prepared: 06-Dec-22 Analyzed: 07-Dec-22

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0538		mg/kg	0.0500		108	69.9-140			

**LCS (2120629-BS1)**

Prepared: 06-Dec-22 Analyzed: 07-Dec-22

Benzene	2.16	0.050	mg/kg	2.00		108	83.4-122			
Toluene	2.16	0.050	mg/kg	2.00		108	84.2-126			
Ethylbenzene	2.13	0.050	mg/kg	2.00		106	84.2-121			
m,p-Xylene	4.53	0.100	mg/kg	4.00		113	89.9-126			
o-Xylene	2.13	0.050	mg/kg	2.00		107	84.3-123			
Total Xylenes	6.66	0.150	mg/kg	6.00		111	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0549		mg/kg	0.0500		110	69.9-140			

**LCS Dup (2120629-BSD1)**

Prepared: 06-Dec-22 Analyzed: 07-Dec-22

Benzene	2.17	0.050	mg/kg	2.00		109	83.4-122	0.609	12.6	
Toluene	2.19	0.050	mg/kg	2.00		109	84.2-126	1.05	13.3	
Ethylbenzene	2.13	0.050	mg/kg	2.00		106	84.2-121	0.0787	13.9	
m,p-Xylene	4.45	0.100	mg/kg	4.00		111	89.9-126	1.79	13.6	
o-Xylene	2.11	0.050	mg/kg	2.00		105	84.3-123	1.11	14.1	
Total Xylenes	6.56	0.150	mg/kg	6.00		109	89.1-124	1.57	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0527		mg/kg	0.0500		105	69.9-140			

**Batch 2120631 - Volatiles****Blank (2120631-BLK1)**

Prepared: 06-Dec-22 Analyzed: 07-Dec-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0539		mg/kg	0.0500		108	69.9-140			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2120631 - Volatiles****LCS (2120631-BS1)**

Prepared: 06-Dec-22 Analyzed: 07-Dec-22

Benzene	2.13	0.050	mg/kg	2.00		106	83.4-122			
Toluene	2.13	0.050	mg/kg	2.00		106	84.2-126			
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	84.2-121			
m,p-Xylene	4.35	0.100	mg/kg	4.00		109	89.9-126			
o-Xylene	2.12	0.050	mg/kg	2.00		106	84.3-123			
Total Xylenes	6.47	0.150	mg/kg	6.00		108	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0502		mg/kg	0.0500		100	69.9-140			

**LCS Dup (2120631-BSD1)**

Prepared: 06-Dec-22 Analyzed: 07-Dec-22

Benzene	2.18	0.050	mg/kg	2.00		109	83.4-122	2.58	12.6	
Toluene	2.20	0.050	mg/kg	2.00		110	84.2-126	3.28	13.3	
Ethylbenzene	2.21	0.050	mg/kg	2.00		110	84.2-121	4.07	13.9	
m,p-Xylene	4.48	0.100	mg/kg	4.00		112	89.9-126	2.99	13.6	
o-Xylene	2.09	0.050	mg/kg	2.00		104	84.3-123	1.50	14.1	
Total Xylenes	6.57	0.150	mg/kg	6.00		109	89.1-124	1.54	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0508		mg/kg	0.0500		102	69.9-140			

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch 2120633 - General Prep - Organics****Blank (2120633-BLK1)**

Prepared: 06-Dec-22 Analyzed: 07-Dec-22

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	48.1		mg/kg	50.0		96.2	45.3-161			
Surrogate: 1-Chlorooctadecane	47.9		mg/kg	50.0		95.8	46.3-178			

**LCS (2120633-BS1)**

Prepared &amp; Analyzed: 06-Dec-22

GRO C6-C10	203	10.0	mg/kg	200		101	76.8-124			
DRO >C10-C28	205	10.0	mg/kg	200		103	74.9-127			
Total TPH C6-C28	408	10.0	mg/kg	400		102	77.5-124			
Surrogate: 1-Chlorooctane	51.4		mg/kg	50.0		103	45.3-161			
Surrogate: 1-Chlorooctadecane	48.4		mg/kg	50.0		96.9	46.3-178			

**LCS Dup (2120633-BS1)**

Prepared &amp; Analyzed: 06-Dec-22

GRO C6-C10	216	10.0	mg/kg	200		108	76.8-124	6.32	17.2	
DRO >C10-C28	229	10.0	mg/kg	200		114	74.9-127	10.9	18.6	
Total TPH C6-C28	444	10.0	mg/kg	400		111	77.5-124	8.66	17.6	
Surrogate: 1-Chlorooctane	53.2		mg/kg	50.0		106	45.3-161			
Surrogate: 1-Chlorooctadecane	55.6		mg/kg	50.0		111	46.3-178			

**Batch 2120635 - General Prep - Organics****Blank (2120635-BLK1)**

Prepared: 06-Dec-22 Analyzed: 07-Dec-22

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	47.2		mg/kg	50.0		94.4	45.3-161			
Surrogate: 1-Chlorooctadecane	53.9		mg/kg	50.0		108	46.3-178			

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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch 2120635 - General Prep - Organics****LCS (2120635-BS1)**

Prepared &amp; Analyzed: 06-Dec-22

GRO C6-C10	198	10.0	mg/kg	200		99.0	76.8-124			
DRO >C10-C28	192	10.0	mg/kg	200		95.9	74.9-127			
Total TPH C6-C28	390	10.0	mg/kg	400		97.4	77.5-124			
Surrogate: 1-Chlorooctane	49.9		mg/kg	50.0		99.9	45.3-161			
Surrogate: 1-Chlorooctadecane	60.0		mg/kg	50.0		120	46.3-178			

**LCS Dup (2120635-BS1)**

Prepared: 06-Dec-22 Analyzed: 07-Dec-22

GRO C6-C10	217	10.0	mg/kg	200		109	76.8-124	9.32	17.2	
DRO >C10-C28	214	10.0	mg/kg	200		107	74.9-127	10.8	18.6	
Total TPH C6-C28	431	10.0	mg/kg	400		108	77.5-124	10.0	17.6	
Surrogate: 1-Chlorooctane	52.1		mg/kg	50.0		104	45.3-161			
Surrogate: 1-Chlorooctadecane	60.4		mg/kg	50.0		121	46.3-178			

**Batch 2120636 - General Prep - Organics****Blank (2120636-BLK1)**

Prepared: 06-Dec-22 Analyzed: 07-Dec-22

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	38.3		mg/kg	50.0		76.7	45.3-161			
Surrogate: 1-Chlorooctadecane	41.8		mg/kg	50.0		83.6	46.3-178			

**LCS (2120636-BS1)**

Prepared: 06-Dec-22 Analyzed: 07-Dec-22

GRO C6-C10	187	10.0	mg/kg	200		93.4	76.8-124			
DRO >C10-C28	196	10.0	mg/kg	200		98.2	74.9-127			
Total TPH C6-C28	383	10.0	mg/kg	400		95.8	77.5-124			
Surrogate: 1-Chlorooctane	44.5		mg/kg	50.0		89.1	45.3-161			
Surrogate: 1-Chlorooctadecane	51.3		mg/kg	50.0		103	46.3-178			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: RAGIN CAJUN 13 - 1  
Project Number: 226363 (9.13.22)  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-22 12:32

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch 2120636 - General Prep - Organics****LCS Dup (2120636-BSD1)**

Prepared: 06-Dec-22 Analyzed: 07-Dec-22

GRO C6-C10	199	10.0	mg/kg	200		99.5	76.8-124	6.35	17.2	
DRO >C10-C28	208	10.0	mg/kg	200		104	74.9-127	5.52	18.6	
Total TPH C6-C28	406	10.0	mg/kg	400		102	77.5-124	5.93	17.6	
Surrogate: 1-Chlorooctane	47.5		mg/kg	50.0		95.0	45.3-161			
Surrogate: 1-Chlorooctadecane	50.6		mg/kg	50.0		101	46.3-178			

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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



## Chain of Custody

Work Order No: H25718-1-2

Page 1 of 3

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Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Hwy
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	WesleyMathews@dmv.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting: Level II	<input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/> ADaPT <input type="checkbox"/> Other:

Project Name:		Turn Around		ANALYSIS REQUEST												Preservative Codes		
Project Number:	226363	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code														None: NO	DI Water: H <sub>2</sub> O
Project Location	Eddy Co. NM	Due Date:	48hr	Parameters	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	HOLD									Cool: Cool	MeOH: Me
Sampler's Name:	Jordan Tyner	TAT starts the day received by the lab, if received by 4:30pm															HCL: HC	HNO <sub>3</sub> : HN
PO #:	21073110																H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A		Correction Factor:	-0.62	Temperature Reading:	-12.2	NaHSO <sub>4</sub> : NABIS										
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A		Temperature Reading:	-12.2	Corrected Temperature:	-12.0	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>										
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A						Zn Acetate+NaOH: Zn										
Total Containers:	27							NaOH+Ascorbic Acid: SAPC										
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments	
CS-67 (4.5')	12/5/2022		X		Comp	1	X	X	X									
CS-71 (4.5')	12/5/2022		X		Comp	1	X	X	X									
CS-72 (4.5')	12/5/2022		X		Comp	1	X	X	X									
CS-73 (4.5')	12/5/2022		X		Comp	1	X	X	X									
CS-74 (4.5')	12/5/2022		X		Comp	1	X	X	X									
CS-75 (4.5')	12/5/2022		X		Comp	1	X	X	X									
CS-76 (4.5')	12/5/2022		X		Comp	1	X	X	X									
SW-40 31	12/5/2022		X		Comp	1	X	X	X									
SW-19 32	12/5/2022		X		Comp	1	X	X	X									
SW-20 33	12/5/2022		X		Comp	1	X	X	X									

## Additional Comments:

\*customer requested sample ID changes. SR 12/20/22

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1		12/6/22 1131	2		
3			4		
5			6		



## Chain of Custody



Work Order No: #225718-1-2

Page 2 of 3

Page 40 of 41

Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Hwy
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	WesleyMathews@devon.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name:	Ragin Cajun 13-1 (9.13.22)		Turn Around		Pres. Code	ANALYSIS REQUEST																Preservative Codes					
Project Number:	226363		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			Parameters	BTEX 8021B TPH 8015M (GRO + DRO + MRO) Chloride 4500																None: NO DI Water: H <sub>2</sub> O				
Project Location:	Eddy Co. NM		Due Date: 48hr																				Cool: Cool MeOH: Me				
Sampler's Name:	Jordan Tyner		TAT starts the day received by the lab, if received by 4:30pm																				HCL: HC HNO <sub>3</sub> : HN				
PO #:	21073110																					H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na					
SAMPLE RECEIPT			Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	HOLD H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC																Sample Comments				
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID: #113																									
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor: -0.6°C																									
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading: -12°C																									
Total Containers:	27		Corrected Temperature: -12.6°C																								
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont																					
SW-21-34	12/5/2022		X		Comp	1	X	X	X																		
SW-22-35	12/5/2022		X		Comp	1	X	X	X																		
SW-23-36	12/5/2022		X		Comp	1	X	X	X																		
SW-27-37	12/5/2022		X		Comp	1	X	X	X																		
SW-30-38	12/5/2022		X		Comp	1	X	X	X																		
SW-31-39	12/5/2022		X		Comp	1	X	X	X																		
SW-32-40	12/5/2022		X		Comp	1	X	X	X																		
SW-33-41	12/5/2022		X		Comp	1	X	X	X																		
SW-34-42	12/5/2022		X		Comp	1	X	X	X																		
SW-35-43	12/5/2022		X		Comp	1	X	X	X																		

## Additional Comments:

\*customer requested sample ID changes. SR 12/30/22

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1		12/6/22 11:31	2		
3			4		
5			6		

Revised Date 05/01/2020 Rev. 2020.1





## Chain of Custody

Work Order No: H025718-1-2

Page 3 of 3

Page 41 of 41

Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Hwy
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	<a href="mailto:WesleyMathews@dvn.com">WesleyMathews@dvn.com</a>

Work Order Comments			
Program: UST/PST	<input type="checkbox"/> PRP	<input type="checkbox"/> Brownfields	<input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:			
Reporting: Level II	<input type="checkbox"/> Level III	<input type="checkbox"/> PST/UST	<input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/> ADaPT	<input type="checkbox"/> Other:	

[illegible]

Additional Comments:

Comments: \* customer requested sample #0 changes. SR 12/20/22

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	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			12/6/22 11:31	2		
3				4		
5				6		

Revised Date 05/12/2020 Rev. 2020

Revised Date 05/12/2020 Rev. 2020.1





Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Ethan Sessums  
NT Global

701 Tradewinds Blvd  
Midland, Texas 79706

Generated 2/3/2023 11:15:46 AM

## JOB DESCRIPTION

Ragin Cajun 13-1  
SDG NUMBER 226363

## JOB NUMBER

890-3917-1

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad NM 88220




# Eurofins Carlsbad

## Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



Generated  
2/3/2023 11:15:46 AM

Authorized for release by  
Jessica Kramer, Project Manager  
[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)  
(432)704-5440

Client: NT Global  
Project/Site: Ragin Cajun 13-1

Laboratory Job ID: 890-3917-1  
SDG: 226363

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Definitions/Glossary

Client: NT Global  
Project/Site: Ragin Cajun 13-1

Job ID: 890-3917-1  
SDG: 226363

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

## Case Narrative

Client: NT Global  
Project/Site: Ragin Cajun 13-1

Job ID: 890-3917-1  
SDG: 226363

**Job ID: 890-3917-1**

**Laboratory: Eurofins Carlsbad**

### Narrative

#### Job Narrative 890-3917-1

#### Receipt

The sample was received on 1/20/2023 4:25 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 15.4°C

#### Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: CS-62 (4.5) (890-3917-1).

#### GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-45260 and analytical batch 880-45231 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-44707 and analytical batch 880-44800 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

## Client Sample Results

Client: NT Global  
Project/Site: Ragin Cajun 13-1

Job ID: 890-3917-1  
SDG: 226363

Client Sample ID: CS-62 (4.5)

Lab Sample ID: 890-3917-1

Date Collected: 01/20/23 15:00

Matrix: Solid

Date Received: 01/20/23 16:25

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/02/23 12:47	02/03/23 04:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/02/23 12:47	02/03/23 04:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/02/23 12:47	02/03/23 04:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/02/23 12:47	02/03/23 04:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/02/23 12:47	02/03/23 04:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/02/23 12:47	02/03/23 04:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130				02/02/23 12:47	02/03/23 04:09	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130				02/02/23 12:47	02/03/23 04:09	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/03/23 09:11	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/02/23 16:03	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/02/23 09:29	02/02/23 14:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/02/23 09:29	02/02/23 14:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/02/23 09:29	02/02/23 14:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				02/02/23 09:29	02/02/23 14:33	1
o-Terphenyl	80		70 - 130				02/02/23 09:29	02/02/23 14:33	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			01/26/23 11:47	1

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## Surrogate Summary

Client: NT Global  
Project/Site: Ragin Cajun 13-1

Job ID: 890-3917-1  
SDG: 226363

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-23958-A-1-E MS	Matrix Spike	98	96
880-23958-A-1-F MSD	Matrix Spike Duplicate	96	106
890-3917-1	CS-62 (4.5)	83	67 S1-
LCS 880-45260/1-A	Lab Control Sample	106	101
LCSD 880-45260/2-A	Lab Control Sample Dup	96	110
MB 880-45241/5-A	Method Blank	75	92
MB 880-45260/5-A	Method Blank	69 S1-	91
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-24224-A-1-E MS	Matrix Spike	98	104
880-24224-A-1-F MSD	Matrix Spike Duplicate	94	100
890-3917-1	CS-62 (4.5)	74	80
LCS 880-45238/2-A	Lab Control Sample	75	79
LCSD 880-45238/3-A	Lab Control Sample Dup	73	79
MB 880-45238/1-A	Method Blank	110	135 S1+
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

## QC Sample Results

Client: NT Global  
Project/Site: Ragin Cajun 13-1

Job ID: 890-3917-1  
SDG: 226363

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45241/5-A

Matrix: Solid

Analysis Batch: 45231

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45241

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/02/23 09:35	02/02/23 11:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/02/23 09:35	02/02/23 11:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/02/23 09:35	02/02/23 11:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/02/23 09:35	02/02/23 11:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/02/23 09:35	02/02/23 11:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/02/23 09:35	02/02/23 11:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	02/02/23 09:35	02/02/23 11:46	1
1,4-Difluorobenzene (Surr)	92		70 - 130	02/02/23 09:35	02/02/23 11:46	1

Lab Sample ID: MB 880-45260/5-A

Matrix: Solid

Analysis Batch: 45231

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45260

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/02/23 12:47	02/02/23 22:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/02/23 12:47	02/02/23 22:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/02/23 12:47	02/02/23 22:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/02/23 12:47	02/02/23 22:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/02/23 12:47	02/02/23 22:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/02/23 12:47	02/02/23 22:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130	02/02/23 12:47	02/02/23 22:21	1
1,4-Difluorobenzene (Surr)	91		70 - 130	02/02/23 12:47	02/02/23 22:21	1

Lab Sample ID: LCS 880-45260/1-A

Matrix: Solid

Analysis Batch: 45231

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45260

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1073		mg/Kg		107	70 - 130
Toluene	0.100	0.09934		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.1045		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2173		mg/Kg		109	70 - 130
o-Xylene	0.100	0.1087		mg/Kg		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-45260/2-A

Matrix: Solid

Analysis Batch: 45231

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45260

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1234		mg/Kg		123	70 - 130	14	35

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## QC Sample Results

Client: NT Global  
Project/Site: Ragin Cajun 13-1

Job ID: 890-3917-1  
SDG: 226363

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-45260/2-A

Matrix: Solid

Analysis Batch: 45231

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45260

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Toluene	0.100	0.1051		mg/Kg		105	70 - 130		6	35
Ethylbenzene	0.100	0.1023		mg/Kg		102	70 - 130		2	35
m-Xylene & p-Xylene	0.200	0.2062		mg/Kg		103	70 - 130		5	35
o-Xylene	0.100	0.1025		mg/Kg		103	70 - 130		6	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 880-23958-A-1-E MS

Matrix: Solid

Analysis Batch: 45231

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 45260

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Benzene	<0.00201	U F1	0.0996	0.06296	F1	mg/Kg		63	70 - 130	
Toluene	<0.00201	U F1	0.0996	0.06104	F1	mg/Kg		61	70 - 130	
Ethylbenzene	<0.00201	U F1	0.0996	0.07124		mg/Kg		72	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F1	0.199	0.1314	F1	mg/Kg		66	70 - 130	
o-Xylene	<0.00201	U F1	0.0996	0.06715	F1	mg/Kg		67	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-23958-A-1-F MSD

Matrix: Solid

Analysis Batch: 45231

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 45260

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits			
Benzene	<0.00201	U F1	0.100	0.07982		mg/Kg		80	70 - 130		24	35
Toluene	<0.00201	U F1	0.100	0.06423	F1	mg/Kg		64	70 - 130		5	35
Ethylbenzene	<0.00201	U F1	0.100	0.06510	F1	mg/Kg		65	70 - 130		9	35
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1272	F1	mg/Kg		63	70 - 130		3	35
o-Xylene	<0.00201	U F1	0.100	0.06595	F1	mg/Kg		66	70 - 130		2	35

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-45238/1-A

Matrix: Solid

Analysis Batch: 45228

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45238

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/02/23 09:29	02/02/23 08:59	1

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## QC Sample Results

Client: NT Global  
Project/Site: Ragin Cajun 13-1

Job ID: 890-3917-1  
SDG: 226363

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-45238/1-A

Matrix: Solid

Analysis Batch: 45228

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45238

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/02/23 09:29	02/02/23 08:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/02/23 09:29	02/02/23 08:59	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				02/02/23 09:29	02/02/23 08:59	1
o-Terphenyl	135	S1+	70 - 130				02/02/23 09:29	02/02/23 08:59	1

Lab Sample ID: LCS 880-45238/2-A

Matrix: Solid

Analysis Batch: 45228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45238

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	999	879.4		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	999	947.2		mg/Kg		95	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	75		70 - 130				
o-Terphenyl	79		70 - 130				

Lab Sample ID: LCSD 880-45238/3-A

Matrix: Solid

Analysis Batch: 45228

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45238

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	999	761.5		mg/Kg		76	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	999	932.5		mg/Kg		93	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	73		70 - 130						
o-Terphenyl	79		70 - 130						

Lab Sample ID: 880-24224-A-1-E MS

Matrix: Solid

Analysis Batch: 45228

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 45238

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1239		mg/Kg		122	70 - 130
Diesel Range Organics (Over C10-C28)	80.3		1000	945.9		mg/Kg		87	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	98		70 - 130						
o-Terphenyl	104		70 - 130						

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## QC Sample Results

Client: NT Global  
Project/Site: Ragin Cajun 13-1

Job ID: 890-3917-1  
SDG: 226363

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-24224-A-1-F MSD

Matrix: Solid

Analysis Batch: 45228

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 45238

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1179		mg/Kg		116	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	80.3		998	896.5		mg/Kg		82	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	94		70 - 130								
o-Terphenyl	100		70 - 130								

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44707/1-A

Matrix: Solid

Analysis Batch: 44800

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/26/23 09:07	1

Lab Sample ID: LCS 880-44707/2-A

Matrix: Solid

Analysis Batch: 44800

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	271.9		mg/Kg		109	90 - 110

Lab Sample ID: LCSD 880-44707/3-A

Matrix: Solid

Analysis Batch: 44800

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	271.0		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 890-3911-A-1-B MS

Matrix: Solid

Analysis Batch: 44800

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<4.96	U F1	248	293.3	F1	mg/Kg		117	90 - 110

Lab Sample ID: 890-3911-A-1-C MSD

Matrix: Solid

Analysis Batch: 44800

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<4.96	U F1	248	293.7	F1	mg/Kg		117	90 - 110	0	20

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QC Association Summary

Client: NT Global  
Project/Site: Ragin Cajun 13-1

Job ID: 890-3917-1  
SDG: 226363

GC VOA

Analysis Batch: 45231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3917-1	CS-62 (4.5)	Total/NA	Solid	8021B	45260
MB 880-45241/5-A	Method Blank	Total/NA	Solid	8021B	45241
MB 880-45260/5-A	Method Blank	Total/NA	Solid	8021B	45260
LCS 880-45260/1-A	Lab Control Sample	Total/NA	Solid	8021B	45260
LCSD 880-45260/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45260
880-23958-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	45260
880-23958-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	45260

Prep Batch: 45241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-45241/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 45260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3917-1	CS-62 (4.5)	Total/NA	Solid	5035	
MB 880-45260/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45260/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45260/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-23958-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-23958-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 45331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3917-1	CS-62 (4.5)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 45228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3917-1	CS-62 (4.5)	Total/NA	Solid	8015B NM	45238
MB 880-45238/1-A	Method Blank	Total/NA	Solid	8015B NM	45238
LCS 880-45238/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45238
LCSD 880-45238/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45238
880-24224-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	45238
880-24224-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	45238

Prep Batch: 45238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3917-1	CS-62 (4.5)	Total/NA	Solid	8015NM Prep	
MB 880-45238/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45238/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45238/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24224-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-24224-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3917-1	CS-62 (4.5)	Total/NA	Solid	8015 NM	



QC Association Summary

Client: NT Global  
Project/Site: Ragin Cajun 13-1

Job ID: 890-3917-1  
SDG: 226363

HPLC/IC

Leach Batch: 44707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3917-1	CS-62 (4.5)	Soluble	Solid	DI Leach	
MB 880-44707/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44707/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44707/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3911-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3911-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 44800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3917-1	CS-62 (4.5)	Soluble	Solid	300.0	44707
MB 880-44707/1-A	Method Blank	Soluble	Solid	300.0	44707
LCS 880-44707/2-A	Lab Control Sample	Soluble	Solid	300.0	44707
LCSD 880-44707/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44707
890-3911-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	44707
890-3911-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	44707

Lab Chronicle

Client: NT Global  
Project/Site: Ragin Cajun 13-1

Job ID: 890-3917-1  
SDG: 226363

Client Sample ID: CS-62 (4.5)  
Date Collected: 01/20/23 15:00  
Date Received: 01/20/23 16:25

Lab Sample ID: 890-3917-1  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	45260	02/02/23 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45231	02/03/23 04:09	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			45331	02/03/23 09:11	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45285	02/02/23 16:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45238	02/02/23 09:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45228	02/02/23 14:33	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	44707	01/25/23 09:29	KS	EET MID
Soluble	Analysis	300.0		1			44800	01/26/23 11:47	CH	EET MID

Laboratory References:  
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: NT Global  
Project/Site: Ragin Cajun 13-1

Job ID: 890-3917-1  
SDG: 226363

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: NT Global  
Project/Site: Ragin Cajun 13-1

Job ID: 890-3917-1  
SDG: 226363

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

- EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: NT Global  
Project/Site: Ragin Cajun 13-1

Job ID: 890-3917-1  
SDG: 226363

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-3917-1	CS-62 (4.5)	Solid	01/20/23 15:00	01/20/23 16:25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14





## Eurofins Carlsbad

1089 N Canal St.

Carlsbad, NM 88220

Phone 575-988-3199 Fax: 575-988-3199

## Chain of Custody Record



## Environment Testing

2/3/2023

[illegible]

## Login Sample Receipt Checklist

Client: NT Global

Job Number: 890-3917-1

SDG Number: 226363

Login Number: 3917

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

## Login Sample Receipt Checklist

Client: NT Global

Job Number: 890-3917-1

SDG Number: 226363

Login Number: 3917

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 01/24/23 12:14 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS  
  
Action 355669

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 355669
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2220947571
Incident Name	NAPP2220947571 RAGIN CAJUN 13 FEDERAL #001 @ 0
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	RAGIN CAJUN 13 FEDERAL #001
Date Release Discovered	07/21/2022
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Other   Other (Specify)   Crude Oil   Released: 15 BBL   Recovered: 4 BBL   Lost: 11 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 355669

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	355669
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 06/18/2024
--	--

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QUESTIONS, Page 3

Action 355669

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 355669
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (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	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 100 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**Remediation Plan**

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

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

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

Chloride	(EPA 300.0 or SM4500 Cl B)	13700
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	275
GRO+DRO	(EPA SW-846 Method 8015M)	223
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	10/03/2022
On what date will (or did) the final sampling or liner inspection occur	01/20/2023
On what date will (or was) the remediation complete(d)	02/17/2023
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	19250
What is the estimated volume (in cubic yards) that will be remediated	3371

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

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



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QUESTIONS, Page 4

Action 355669

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	355669
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Remediation Plan (continued)**

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.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

(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	LEA LAND LANDFILL [fEEM0112342028]
<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.

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 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: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 06/18/2024
--	--

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

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QUESTIONS, Page 5  
  
Action 355669

QUESTIONS (continued)

Operator:  DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:  6137
	Action Number:  355669
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 355669

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	355669
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	355689
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/20/2023
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	19250

**Remediation Closure Request**

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	19250
What was the total volume (cubic yards) remediated	3371
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	SEE REPORT

*The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 06/18/2024
--	--

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Phone:(505) 476-3470 Fax:(505) 476-3462

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

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Action 355669

QUESTIONS (continued)

Operator:  DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:  6137
	Action Number:  355669
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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

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

CONDITIONS  
  
Action 355669

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
nvelez	None	8/13/2024