



402 East Wood Avenue
Carlsbad, New Mexico 88220
Tel. 432-701-2159
www.ntgenvironmental.com

February 17, 2023

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

**Re: Site Characterization and Closure Request
Ragin Cajun 12 Federal #001H
Devon Energy, LLC
Site Location: Unit O, S12, T26S, R34E
(Lat 32.050663 °, Long -103.420562 °)
Lea County, New Mexico
Incident ID: nAPP2225822313**

1. Introduction

Mr. Bratcher:

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 12 Federal #001H (Site). The Site is 12.91 miles East of Bennet, New Mexico located in Unit Letter O, Section 12 of Township 26 South and Range 34 East in Lea County, New Mexico. The GPS coordinates for the release site are 32.050663° N latitude and 103.420562° 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 September 13, 2022, as a result of packing failure on the well head. Approximately 16.23 barrels (bbls) of crude oil were released, of which 15 bbls were recovered, a net loss of 1.23 bbls of oil. Upon discovery, the well was shut-in, and area secured. The release is shown on Figure 3. The initial C-141 form is attached.

3. Groundwater and Site Characterization

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there are no known depth to groundwater sources within a ½-mile radius of the location. No other receptors (water wells, playas, wetlands, waterways, lakebeds, or ordinance boundaries) were located within each specific boundary or distance from the Site. The site characterization documentation is attached. NTGE characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, from New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12).

Mr. Mike Bratcher
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General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft)
No Receptors Found	unknown

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

Regulatory Standard	Chloride	TPH (GRO+DRO+MR)	TPH (GRO+MRO)	BTEX	Benzene
19.15.29.12 Remediation and Closure	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. 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 showed none of the sample points exhibited TPH or BTEX concentrations exceeding 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. Three test pits were then installed in areas near S-1, S-2, and S-3 for further delineation and soil samples (TP-1, TP-2, TP-3) 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, with only TP-1 exceeded the regulatory limits for chlorides.

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 was sent to Cardinal Laboratories for analysis. Analytical results show that all samples exhibited TPH, BTEX, and Chloride levels below regulatory limits. See Table 1.

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.

A total of eighty-five (85) confirmation samples were collected on November 3rd, 2022 from the excavation base (i.e., CS1 – CS85) and 30 confirmation samples were collected from the excavation sidewalls (i.e., SW1 – SW30) to ensure impacted soils were successfully removed. Analytical results indicated that thirty-five (35) of the confirmation base samples (CS) and eight (8) of the confirmation sidewalls samples (SW) were above the regulatory limits and the area would require further excavation. The impacted areas are listed below.

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- CS-10, CS-20 – CS-24, CS-26, CS-28, CS-29, CS-31, CS-32, CS-38 – CS-40, CS-44, CS-46 – CS-49, CS-51, CS-56 – CS-58, CS-61, CS-62, CS-64 – CS-67, and CS-71 – CS-76.
- SW-16, SW-19 – SW-23, SW-27, and SW-30.

After further excavation the impacted areas listed above were re-sampled on December 5th, 2022 and 20 additional confirmation sidewall samples (i.e., SW-31 – SW-50) A photographic log documenting site conditions during confirmation sampling activities is attached.

The confirmation samples were collected every 200 square feet and submitted to the lab under proper chain of custody protocol for analysis. The samples were analyzed for the following:

- TPH (EPA method 8015 modified),
- BTEX (EPA Method 8021B), and
- Chloride (method SM4500Cl-B).

Analytical results indicated the extent of impacted soils had been removed and no further excavation was required. The excavation was backfilled and returned to near-natural grade. The final excavation extent and confirmation sample locations are shown on Figure 4 and 4 cont. Analytical results of the confirmation samples are included in Table 2.

6. Closing Request

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

Sincerely,
NTG Environmental

Attachments:

C-141 Documentation
Site Characterization Documentation
Table 1
Figures
Photographic Log
Laboratory Reports and Chain-of-Custody Documents

INITIAL AND FINAL 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

State of New Mexico
Oil Conservation Division

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: _____ Title: _____ Signature: <u>Kendra Ruiz</u> Date: _____ email: _____ Telephone: _____
<u>OCD Only</u> Received by: <u>Jocelyn Harimon</u> Date: <u>09/29/2022</u>

Spill Volume(Bbls) Calculator	
<i>Inputs in blue, Outputs in red</i>	
<i>Contaminated Soil measurement</i>	
Area (square feet)	Depth(inches)
<u>1618.687</u>	<u>0.500</u>
Cubic Feet of Soil Impacted	<u>67.445</u>
Barrels of Soil Impacted	<u>12.02</u>
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	<u>1.80</u>
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	1.80
<i>Free Standing Fluid Only</i>	
Area (square feet)	Depth(inches)
<u>1618.687</u>	<u>0.600</u>
Standing fluid	<u>14.427</u>
Total fluids spilled	16.230

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

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

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

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

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

State of New Mexico
Oil Conservation Division

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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: EHS Professional

Signature: *Dale Woodall* Date: 2/23/2023

email: Dale.Woodall@dvn.com Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 02/23/2023

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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: Dale Woodall Title: EHS Professional
 Signature: Dale Woodall Date: 2/23/2023
 email: Dale.Woodall@dvn.com Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 02/23/2023

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

Incident ID	NAPP2225822313
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: EHS Professional
 Signature: *Dale Woodall* Date: 2/23/2023
 email: Dale.Woodall@dvn.com Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 02/23/2023

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: *Jennifer Nobui* Date: 03/02/2023
 Printed Name: Jennifer Nobui Title: Environmental Specialist A

Kellan Smith

From: Ethan Sessums
Sent: Wednesday, February 22, 2023 10:19 AM
To: Kellan Smith
Subject: FW: Sampling Notification

Ethan Sessums
Project Manager
NTG Environmental New Mexico
402 E Wood Ave, Carlsbad, NM 88220
M: 254-266-5456 W: 432-701-2159
Email: esessums@ntglobal.com
<http://www.ntgenvironmental.com/>



From: Ethan Sessums
Sent: Thursday, December 1, 2022 10:24 AM
To: ocd.enviro@state.nm.us
Cc: Jordan Tyner <JTyner@ntglobal.com>
Subject: Sampling Notification

nAPP2222431222	Ragin Cajun 13-1	7/21/2022
napp2225822313	Ragin Cajun 13-1	9/13/2022

We will be confirmation sampling this site on behalf of DEVON on 15/5/2022 around 10 a.m.

Ethan Sessums
Project Manager
NTG Environmental New Mexico
402 E Wood Ave, Carlsbad, NM 88220
M: 254-266-5456 W: 432-701-2159
Email: esessums@ntglobal.com
<http://www.ntgenvironmental.com/>



Kellan Smith

From: Ethan Sessums
Sent: Wednesday, February 22, 2023 10:20 AM
To: Kellan Smith
Subject: FW: Sampling Notification

Ethan Sessums
Project Manager
NTG Environmental New Mexico
402 E Wood Ave, Carlsbad, NM 88220
M: 254-266-5456 W: 432-701-2159
Email: esessums@ntglobal.com
<http://www.ntgenvironmental.com/>



From: Ethan Sessums
Sent: Wednesday, January 18, 2023 12:40 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: Sampling Notification

We will be conducting the final extent of sample collection of the Ragin Cajun 13-1 nAPP2222431222/napp2225822313 On Friday the 20th at 1 p.m.

Ethan Sessums
Project Manager
NTG Environmental New Mexico
402 E Wood Ave, Carlsbad, NM 88220
M: 254-266-5456 W: 432-701-2159
Email: esessums@ntglobal.com
<http://www.ntgenvironmental.com/>



Kellan Smith

From: Ethan Sessums
Sent: Wednesday, February 22, 2023 10:45 AM
To: Kellan Smith
Subject: FW: [EXTERNAL] Sampling Event

Ethan Sessums
Project Manager
NTG Environmental New Mexico
402 E Wood Ave, Carlsbad, NM 88220
M: 254-266-5456 W: 432-701-2159
Email: esessums@ntglobal.com
<http://www.ntgenvironmental.com/>



From: Jordan Tyner <JTtyner@ntglobal.com>
Sent: Wednesday, February 22, 2023 10:45 AM
To: Ethan Sessums <ESessums@ntglobal.com>
Subject: Fwd: [EXTERNAL] Sampling Event

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From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Sent: Monday, October 31, 2022 4:27:11 PM
To: Jordan Tyner <JTtyner@ntglobal.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Sampling Event

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Jordan

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,
Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Monday, October 31, 2022 4:24 PM
To: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Sampling Event

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@state.nm.us
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Jordan Tyner <JTyner@ntglobal.com>
Sent: Monday, October 31, 2022 3:39 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Ethan Sessums <ESessums@ntglobal.com>
Subject: [EXTERNAL] Sampling Event

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

We will be conducting a sampling event on behalf of Devon on November 3, 2022 around 10am

napp2225822313	Ragin Cajun 13 Fed 1H	9/13/2022
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Jordan Tyner
Project Scientist
NTG Environmental New Mexico
402 E Wood Ave, Carlsbad, NM 88220
M: (903) 309-8358 W: (432) 813-0263
Email: jtyner@ntglobal.com
<http://www.ntgenvironmental.com/>



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recipients(s) is not intended in any way to waive confidentiality. If you have received this transmission in error, please alert the sender by reply e-mail; we also request that you immediately delete this message and its attachments, if any.

SITE CHARACTERIZATION INFORMATION

Devon Energy - Ragin Cajun 12-1
Sec 13 T26S R34E Unit N
32.050663, -103.420562
Lea County, New Mexico

Site Characterization

-No water features within specified distances of 1/2 mile radius, drilled within 25 years

-Low Karst

-USGS Groundwater is 198' below surface, 1.28 miles East of the site, 1961 Drilled, Section 19, T26S, R35E

RRALs due to insufficient *RECENT* groundwater data

-Chlorides 600 mg/kg

-TPH GRO+DRO+MRO 100 mg/kg

-BTEX 50 mg/kg

-Benzene 10 mg/kg

Low Karst

Devon Energy
Lea County, New Mexico
32.0369835, -103.4278412

Legend

-  CRIT
-  HIGH
-  LOW
-  MEDIUM
-  Site Location



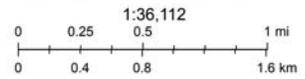
Ragin Cajun 13-1



New Mexico NFHL Data



November 14, 2022



FEMA, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community. Source: Esri, Maxar, Earthstar Geographics, and the GIS

nmlfood.org is made possible through a collaboration with NMDHSEM.

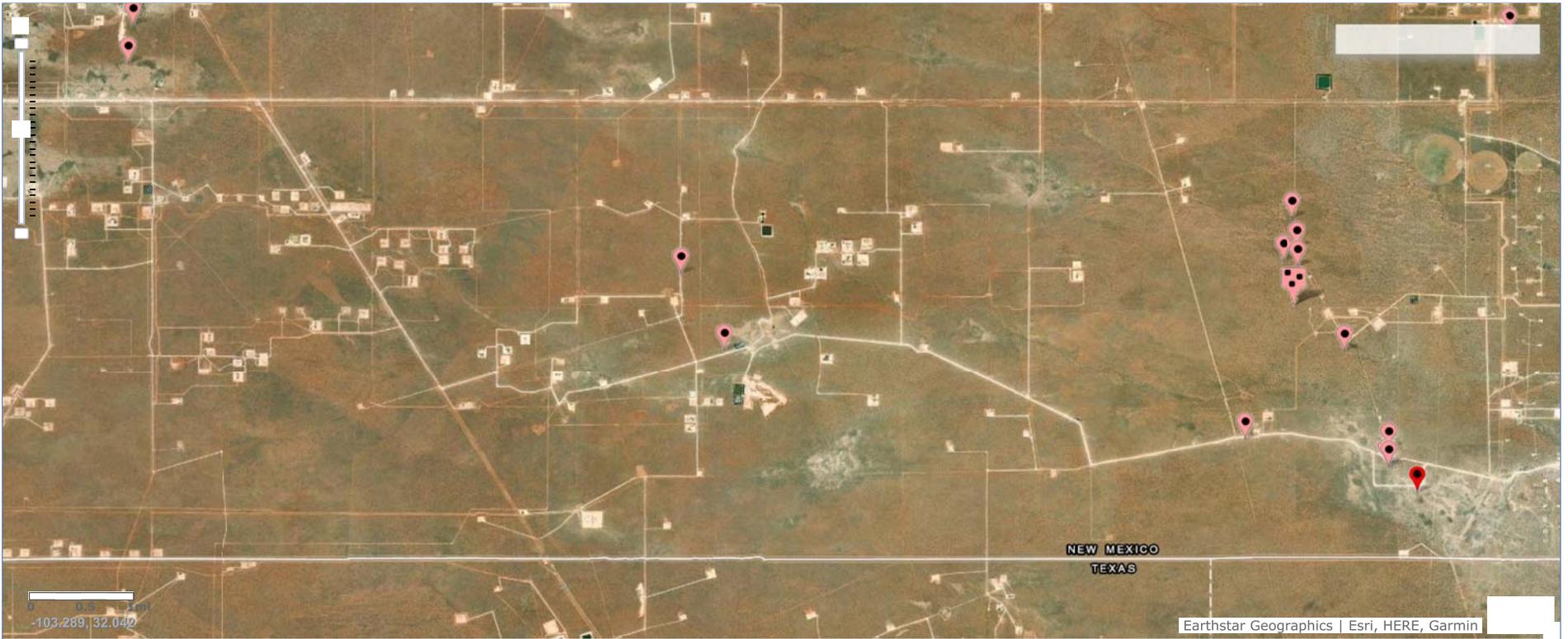
This is a non-regulatory product for informational use only. Please consult your local floodplain administrator for further information.



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National Water Information System: Mapper

[Help](#) [Info](#)

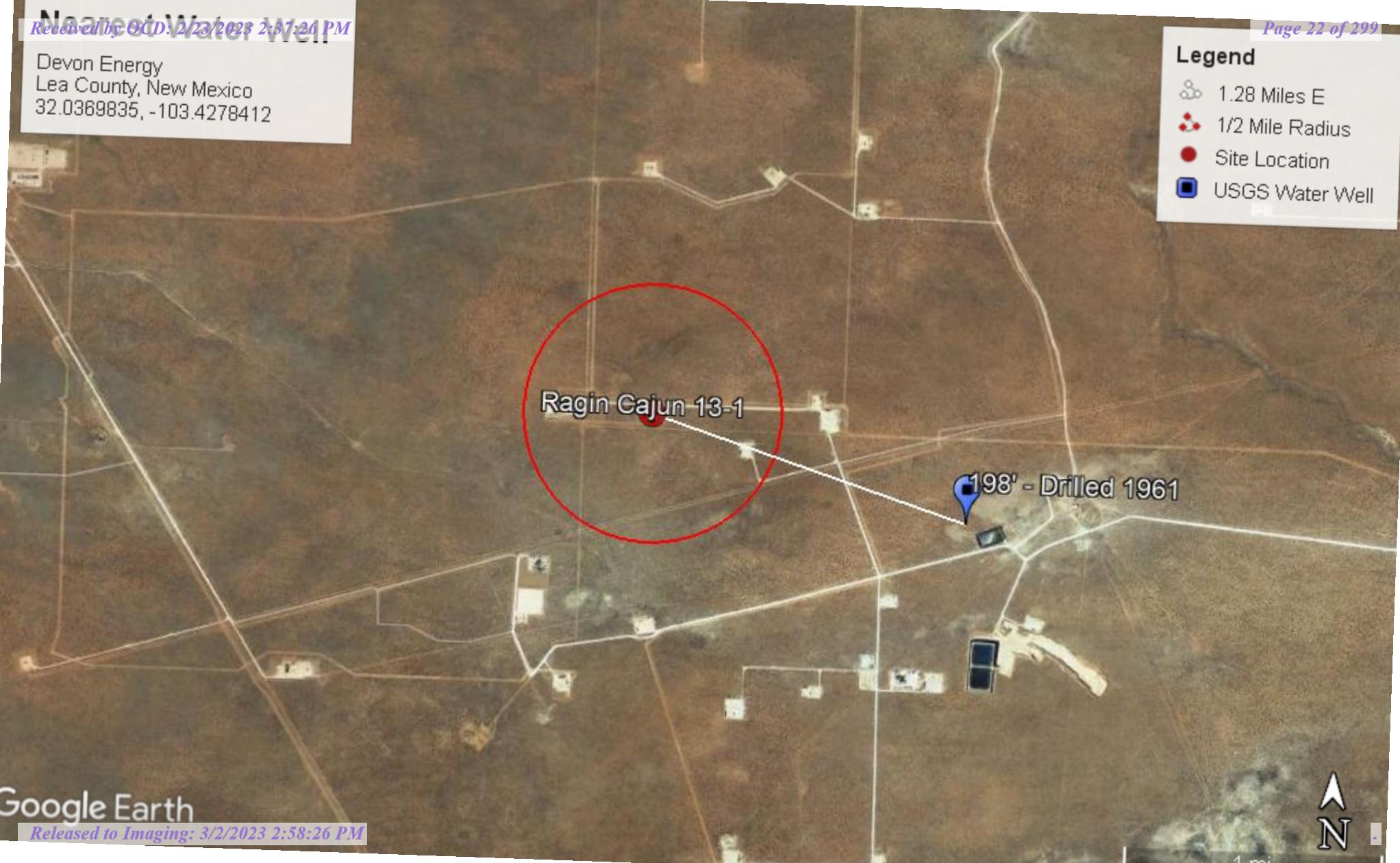


Site Information

Devon Energy
Lea County, New Mexico
32.0369835, -103.4278412

Legend

-  1.28 Miles E
-  1/2 Mile Radius
-  Site Location
-  USGS Water Well



Ragin Cajun 13-1

198' - Drilled 1961





USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater Geographic Area: New Mexico

Click to hideNews Bulletins

- Effective October 24, 2022 hyperlinks to legacy Current Condition pages will automatically redirect users to the corresponding Monitoring Location page. Please see the [Water Data For The Nation Blog](#) for full details, including how to navigate back to the legacy Current Condition page, if desired.
- Explore the NEW [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320150103235501

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 320150103235501 26S.35E.19.142

Lea County, New Mexico
Latitude 32°01'53", Longitude 103°24'25" NAD27
Land-surface elevation 3,190 feet above NGVD29
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source measu
1961-12-20			D	62610	2992.00	NGVD29	1	O	USGS	
1961-12-20			D	62611	2993.51	NAVD88	1	O	USGS	
1961-12-20			D	72019	198.00		1	O	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929

Section	Code	Description
Status	1	Static
Method of measurement	0	Observed.
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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TABLES

**Table 1 - Soil Delineation Samples
Devon Energy Production Company
Ragin Cajun 12 Federal #001H
Lea County, New Mexico**

Sample ID	Date	Sample Depth	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX	Chlorides (mg/kg)	
			DRO	GRO	MRO	Total							
H-1	9/29/2022	N/A	37.9	<10.0	19.9	57.8	<0.050	<0.050	<0.050	<0.150	<0.300	128	
H-2	9/29/2022	N/A	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	448	
H-3	9/29/2022	N/A	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320	
H-4	9/29/2022	N/A	25.6	<10.0	12.5	38.1	<0.050	<0.050	<0.050	<0.150	<0.300	160	
H-5	9/29/2022	N/A	25.1	<10.0	<10.0	25.1	<0.050	<0.050	<0.050	<0.150	<0.300	64	
H-6	9/29/2022	N/A	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96	
H-7	9/29/2022	N/A	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176	
H-8	9/29/2022	N/A	27.4	<10.0	10.8	38.2	<0.050	<0.050	<0.050	<0.150	<0.300	208	
H-9	9/29/2022	N/A	42	<10.0	16.8	58.8	<0.050	<0.050	<0.050	<0.150	<0.300	176	
H-10	9/29/2022	N/A	46.3	<10.0	18.8	65.1	<0.050	<0.050	<0.050	<0.150	<0.300	192	
S-1	9/29/2022	1-1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144	
	9/29/2022	2-2.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	928	
S-2	9/29/2022	1-1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	640	
	9/29/2022	2-2.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3840	
S-3	9/29/2022	1-1.5	22.6	<10.0	17.5	40.1	<0.050	<0.050	<0.050	<0.150	<0.300	272	
	9/29/2022	2-2.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	864	
	9/29/2022	3-3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3960	
S-4	9/29/2022	1-1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64	
S-5	9/29/2022	2-2.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96	
S-6	9/29/2022	3-3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160	
TP-1	10/27/2022	7'	<10.0	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.075	<0.150	2120	
TP-1	10/27/2022	8'	<10.0	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.075	<0.150	560	
TP-2	10/27/2022	6'	<10.0	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.075	<0.150	176	
TP-3	10/27/2022	6'	<10.0	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.075	<0.150	464	
TP-3	10/27/2022	7'	<10.0	35.9	<10.0	35.9	<0.025	<0.025	<0.025	<0.075	<0.150	320	
Regulatory Limits ^A							100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed
^A - Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH- total petroleum hydrocarbons
ft-feet
 - exceeds regulatory limits

**Table 2 - Soil Confirmation Samples
Devon Energy Production Company
Ragin Cajun 12 Federal #001H
Lea County, New Mexico**

Sample ID	Date	Sample Depth	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX	Chlorides (mg/kg)	
			DRO	GRO	MRO	Total							
CS-1	11/3/2022	3'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208	
CS-2	11/3/2022	3'	41.1	<10.0	<10.0	41.1	<0.050	<0.050	<0.050	<0.150	<0.300	432	
CS-3	11/3/2022	3'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	512	
CS-4	11/3/2022	3'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80	
CS-5	11/3/2022	3'	30.9	<10.0	<10.0	30.9	<0.050	<0.050	<0.050	<0.150	<0.300	80	
CS-6	11/3/2022	3'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48	
CS-7	11/3/2022	3'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224	
CS-8	11/3/2022	3'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64	
CS-9	11/3/2022	3'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	336	
CS-10	11/3/2022	3'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	668	
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32	
CS-11	11/3/2022	3'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	352	
CS-12	11/3/2022	3'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144	
CS-13	11/3/2022	3'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96	
CS-14	11/3/2022	3'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80	
CS-15	11/3/2022	3'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48	
CS-16	11/3/2022	3'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32	
CS-17	11/3/2022	3'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176	
CS-18	11/3/2022	3'	27.2	<10.0	<10.0	27.2	<0.050	<0.050	<0.050	<0.150	<0.300	64	
CS-19	11/3/2022	3'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48	
CS-20	11/3/2022	3.5'	44.4	<10.0	14.2	58.6	<0.050	<0.050	<0.050	<0.150	<0.300	5360	
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128	
CS-21	11/3/2022	3.5'	223	<10.0	51.6	274.6	<0.050	<0.050	<0.050	<0.150	<0.300	2480	
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128	
CS-22	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3480	
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0	
CS-23	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	5080	
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	352	
CS-24	11/3/2022	3.5'	18.8	<10.0	<10.0	18.8	<0.050	<0.050	<0.050	<0.150	<0.300	928	
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272	
CS-25	11/3/2022	7'	40.8	<10.0	<10.0	40.8	<0.050	<0.050	<0.050	<0.150	<0.300	464	
CS-26	11/3/2022	7'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	880	
	12/5/2022	8'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80	
CS-27	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80	
CS-28	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	784	
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96	
CS-29	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1420	
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80	
CS-30	11/3/2022	3.5'	18	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64	
CS-31	11/3/2022	7'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	944	
	12/5/2022	8'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16	
CS-32	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	752	
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160	
CS-33	11/3/2022	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64	
CS-34	11/3/2022	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80	
CS-35	11/3/2022	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80	
CS-36	11/3/2022	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64	
CS-37	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64	
CS-38	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1340	
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144	
CS-39	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	844	
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208	
Regulatory Limits ^A							100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed
^A - Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH- total petroleum hydrocarbons
ft-feet
 - exceeds regulatory limits

**Table 2 - Soil Confirmation Samples
Devon Energy Production Company
Ragin Cajun 12 Federal #001H
Lea County, New Mexico**

Sample ID	Date	Sample Depth	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX	Chlorides (mg/kg)
			DRO	GRO	MRO	Total						
CS-40	11/3/2022	7'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	10500
	12/5/2022	8'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32
CS-41	11/3/2022	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80
CS-42	11/3/2022	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80
CS-43	11/3/2022	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96
CS-44	11/3/2022	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1970
	12/5/2022	3'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
CS-45	11/3/2022	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
CS-46	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	9860
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32
CS-47	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3520
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
CS-48	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	13700
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
CS-49	11/3/2022	7'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2210
	12/5/2022	8'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
CS-50	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	368
CS-51	11/3/2022	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1230
	12/5/2022	3'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
CS-52	11/3/2022	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80
CS-53	11/3/2022	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	288
CS-54	11/3/2022	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
CS-55	11/3/2022	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64
CS-56	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1420
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
CS-57	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	6160
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80
CS-58	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	11600
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32
CS-59	11/3/2022	6'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	400
CS-60	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
CS-61	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	640
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32
CS-62	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	928
	1/20/2023	4.5'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<4.98
CS-63	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	496
CS-64	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2120
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64
CS-65	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1580
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
CS-66	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1500
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
CS-67	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2040
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
CS-68	11/3/2022	6'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
CS-69	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
CS-70	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
CS-71	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2260
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16
CS-72	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1010
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32
CS-73	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1170
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16
Regulatory Limits ^A						100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg	

(-) Not Analyzed
^A - Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH- total petroleum hydrocarbons
ft-feet
 - exceeds regulatory limits

**Table 2 - Soil Confirmation Samples
Devon Energy Production Company
Ragin Cajun 12 Federal #001H
Lea County, New Mexico**

Sample ID	Date	Sample Depth	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX	Chlorides (mg/kg)
			DRO	GRO	MRO	Total						
CS-74	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1310
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80
CS-75	11/3/2022	3.5'	44.2	<10.0	<10.0	44.2	<0.050	<0.050	<0.050	<0.150	<0.300	3120
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
CS-76	11/3/2022	3.5'	22.2	<10.0	<10.0	22.2	<0.050	<0.050	<0.050	<0.150	<0.300	1630
	12/5/2022	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
CS-77	11/3/2022	6'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	288
CS-78	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	352
CS-79	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	336
CS-80	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
CS-81	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	560
CS-82	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
CS-83	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
CS-84	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	304
CS-85	11/3/2022	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
SW-1	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64
SW-2	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80
SW-3	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-4	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16
SW-5	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48
SW-6	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	576
SW-7	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-8	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	352
SW-9	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
SW-10	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SW-11	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
SW-12	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	288
SW-13	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80
SW-14	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	384
SW-15	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	480
SW-16	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2800
SW-17	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
SW-18	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	352
SW-19	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	6320
SW-20	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1800
SW-21	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1380
SW-22	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	848
SW-23	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2920
SW-24	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	544
SW-25	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
SW-26	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
SW-27	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1700
SW-28	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	288
SW-29	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
SW-30	11/3/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2000
SW-31	12/5/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
SW-32	12/5/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
SW-33	12/5/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
SW-34	12/5/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80
SW-35	12/5/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
SW-36	12/5/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16
SW-37	12/5/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	304
SW-38	12/5/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
Regulatory Limits ^A						100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg	

(-) Not Analyzed
^A - Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH- total petroleum hydrocarbons
ft-feet
- exceeds regulatory limits

**Table 2 - Soil Confirmation Samples
Devon Energy Production Company
Ragin Cajun 12 Federal #001H
Lea County, New Mexico**

Sample ID	Date	Sample Depth	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX	Chlorides (mg/kg)
			DRO	GRO	MRO	Total						
SW-39	12/5/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80
SW-40	12/5/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
SW-41	12/5/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SW-42	12/5/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32
SW-43	12/5/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
SW-44	12/5/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64
SW-45	12/5/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96
SW-46	12/5/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80
SW-47	12/5/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
SW-48	12/5/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-49	12/5/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32
SW-50	12/5/2022		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32
Regulatory Limits ^A						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

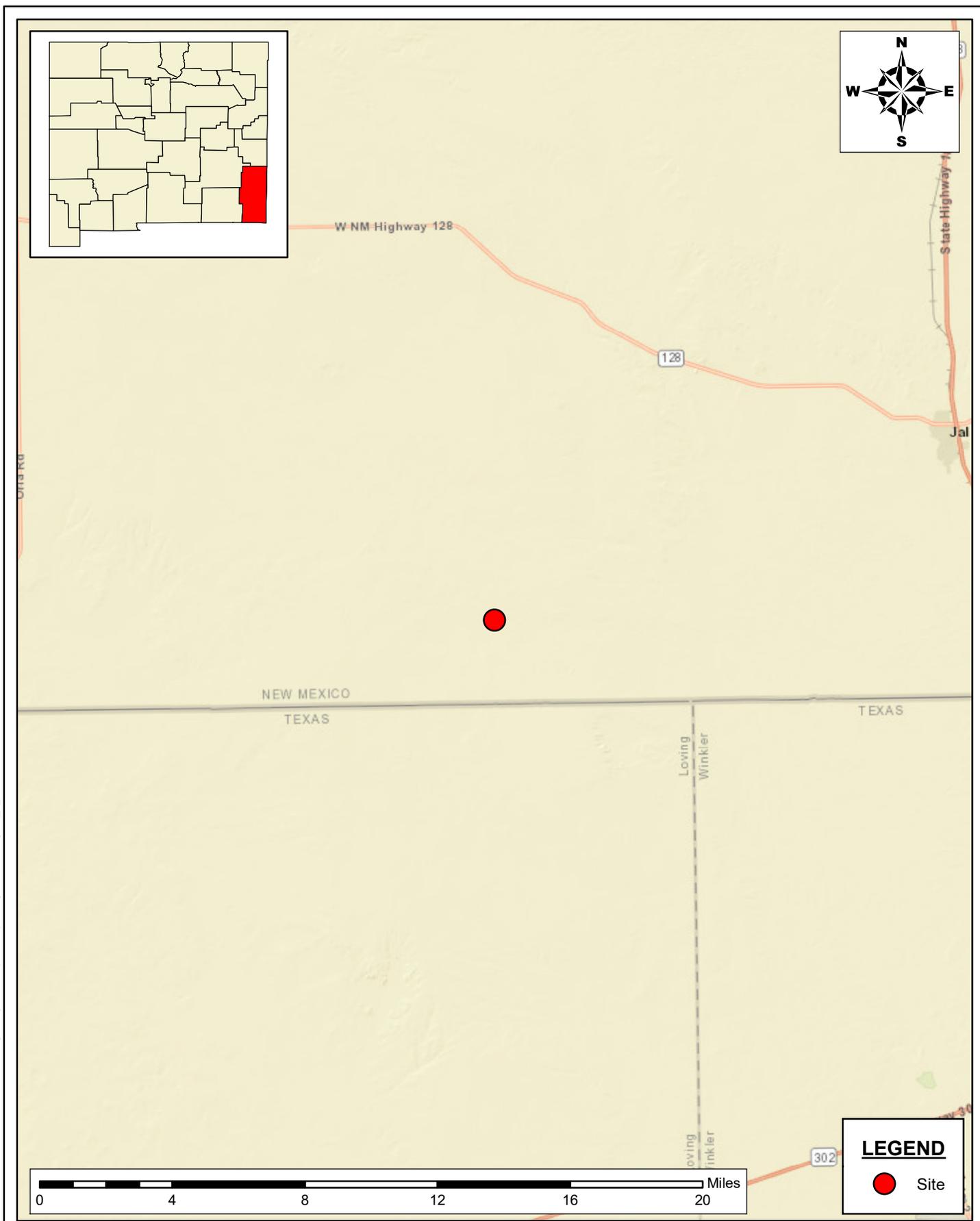
TPH- total petroleum hydrocarbons

ft-feet

- exceeds regulatory limits

FIGURES

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**SITE LOCATION MAP
CLOSURE REPORT**
 RAGIN CAJUN 12 Federal #001H
 DEVON ENERGY PRODUCTION COMPANY, LLC
 LEA COUNTY, NEW MEXICO

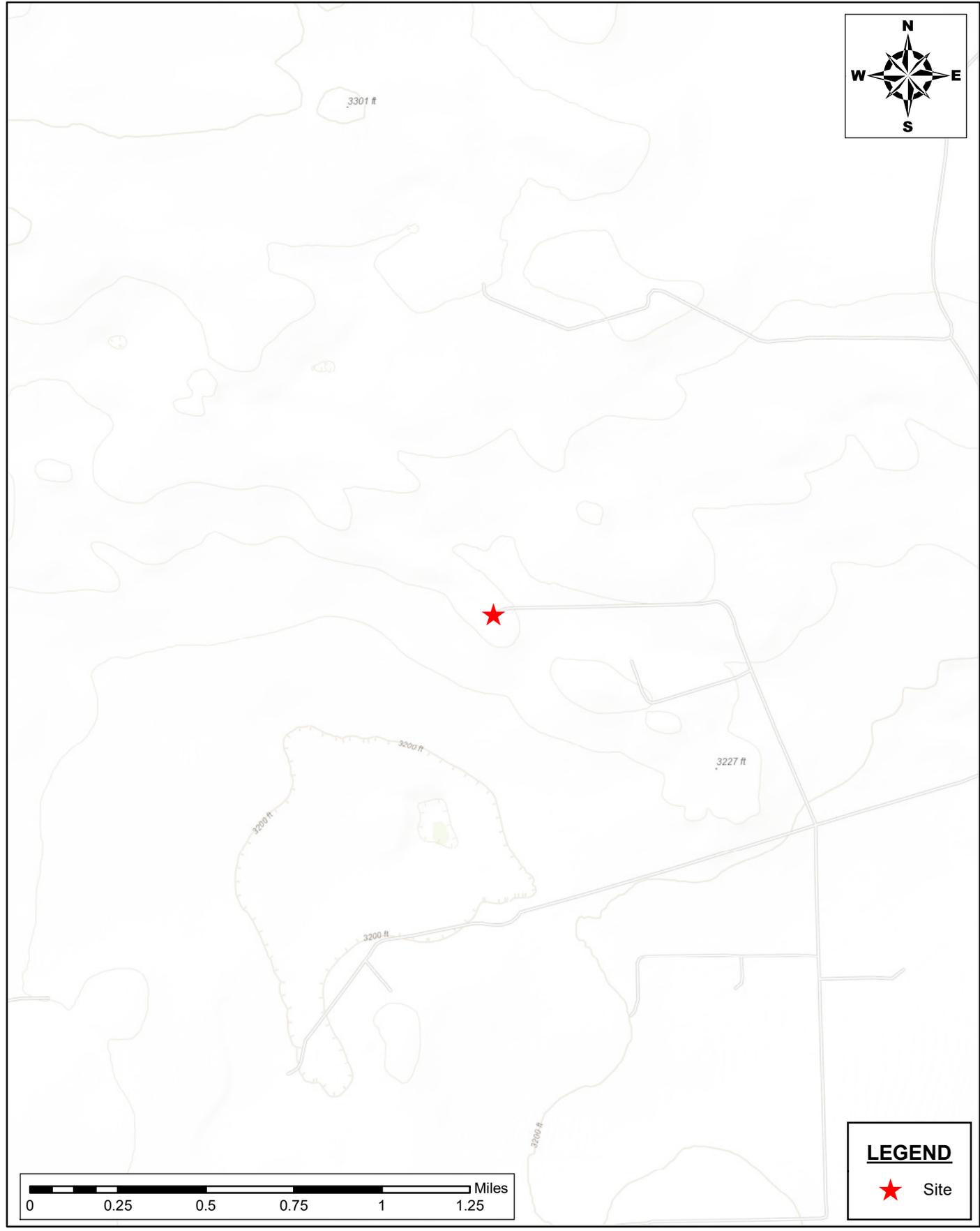
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New Tech Global Environmental, LLC
 911 Regional Park Drive
 Houston, Texas 77060
 T - 281.872.9300
 F - 281.872.4521
 Web: www.ntgenviroinmental.com

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 12 Federal #001H
 DEVON ENERGY PRODUCTION COMPANY, LLC
 LEA COUNTY, NEW MEXICO

SCALE: As Shown Date: 2/13/2023 PROJECT #: 226363

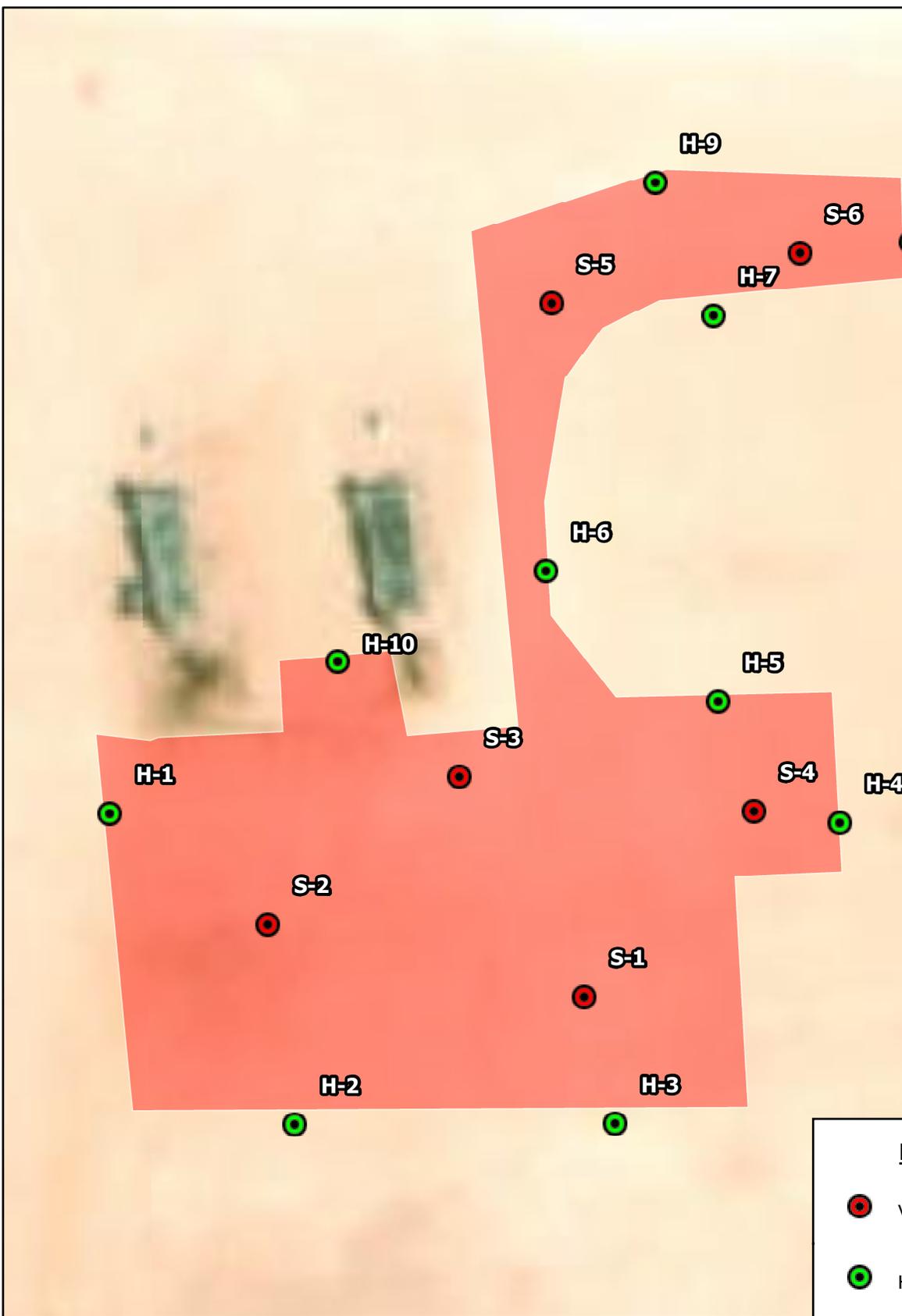
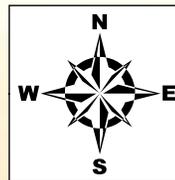
 **NTG**
 ENVIRONMENTAL

New Tech Global Environmental, LLC
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NOTES:
 1. Base Image: ESRI Maps & Data 2013
 2. Map Projection: NAD 1983

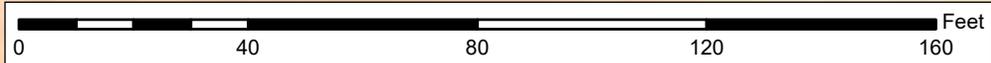
DRAWING NUMBER:
FIGURE 2

SHEET NUMBER:
1 of 1



LEGEND

-  Vertical Samples
-  Horizontal Samples
-  Area of Concern



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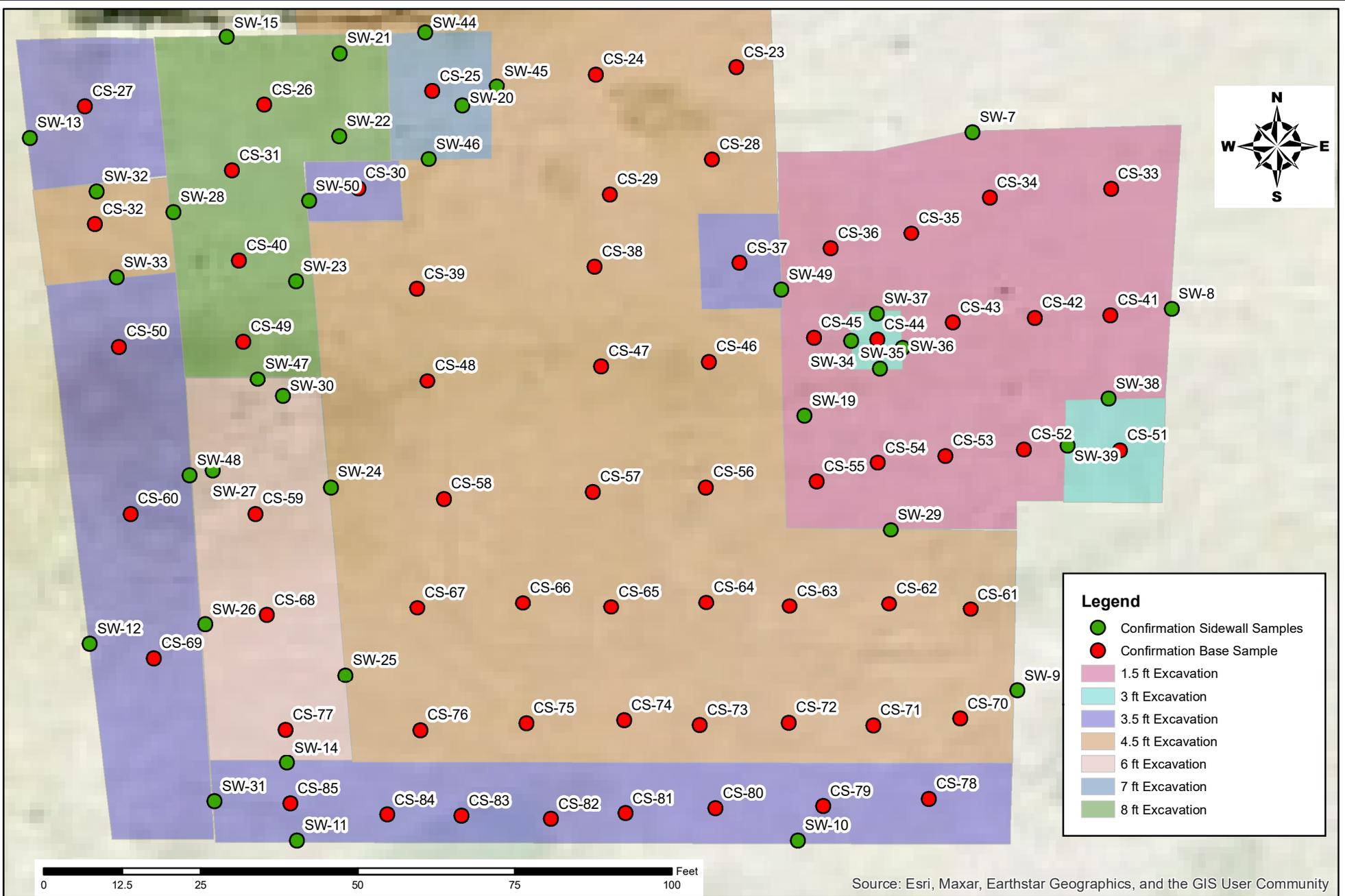
**SITE DELINEATION MAP
CLOSURE REPORT**
 RAGIN CAJUN 12 Federal #001H
 DEVON ENERGY PRODUCTION COMPANY
 LEA COUNTY, NEW MEXICO

SCALE: As Shown Date: 2/6/2023 PROJECT #: 226363


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

DRAWING NUMBER:
FIGURE 3
 SHEET NUMBER:
1 of 1



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Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

DRAWING NUMBER
FIGURE 1

SHEET NUMBER
1 of 2

CONFIRMATION SAMPLE MAP
SITE CLOSURE REPORT
DEVON ENERGY PRODUCTION COMPANY
 Ragin Cajun 12 Federal #001H
 Lea County, New Mexico

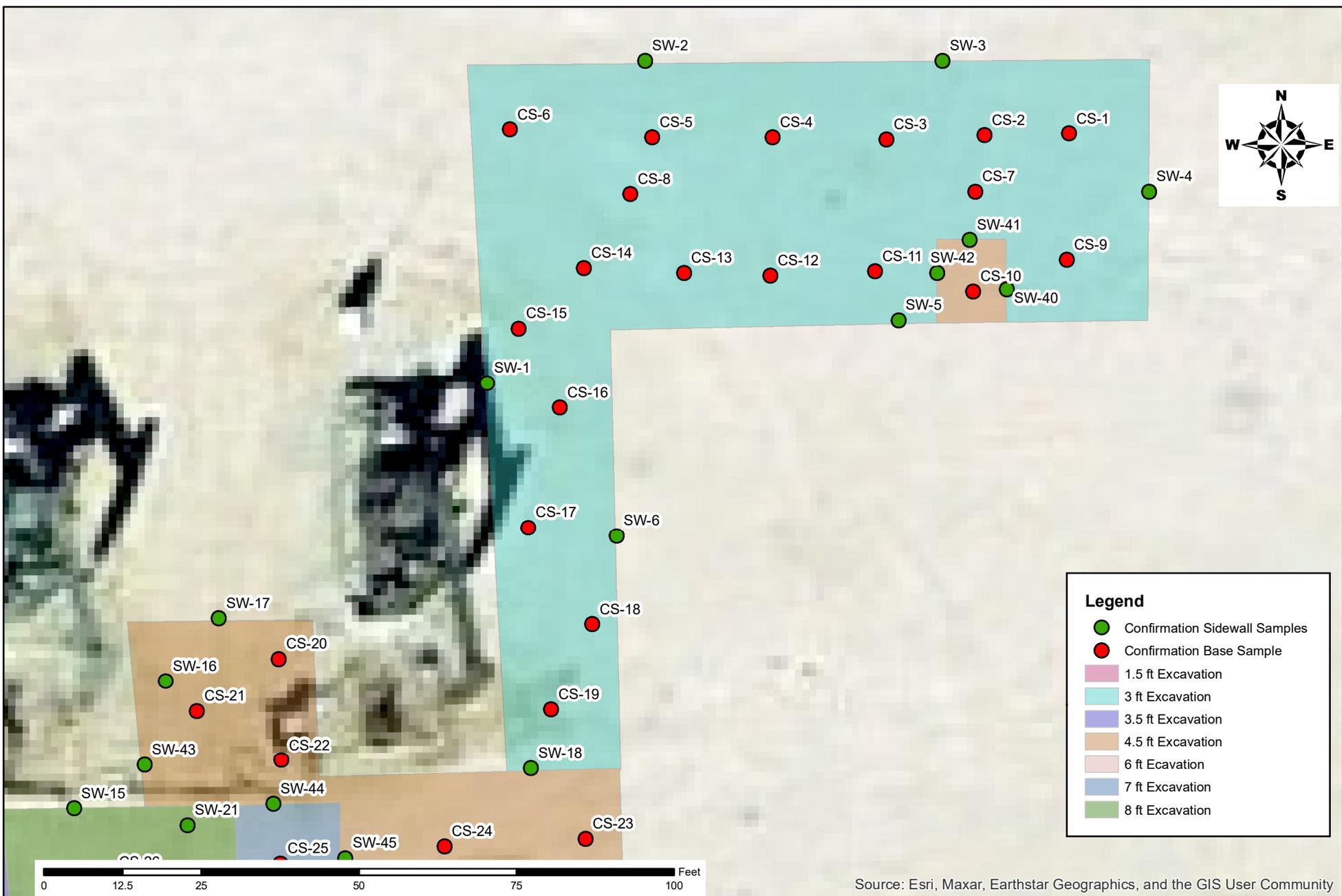
SCALE: As Shown Date: 2/13/2023 PROJECT #: 226363

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NOTES:

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



Legend

- Confirmation Sidewall Samples
- Confirmation Base Sample
- 1.5 ft Excavation
- 3 ft Excavation
- 3.5 ft Excavation
- 4.5 ft Excavation
- 6 ft Excavation
- 7 ft Excavation
- 8 ft Excavation

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

DRAWING NUMBER
FIGURE 1
 SHEET NUMBER
2 of 2

CONFIRMATION SAMPLE MAP
SITE CLOSURE REPORT
DEVON ENERGY PRODUCTION COMPANY
 Ragin Cajun 12 Federal #001H
 Lea County, New Mexico

SCALE: As Shown Date: 2/13/2023 PROJECT #: 226363

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 Web: www.ntgenvironmental.com



NOTES:

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

PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG

Devon Energy Production Company

Photograph No. 1

Facility: Ragin Cajun 12 Federal #001H

County: Lea County, New Mexico

Description:
View of Excavation.



Photograph No. 2

Facility: Ragin Cajun 12 Federal #001H

County: Lea County, New Mexico

Description:
View of Excavation.



Photograph No. 3

Facility: Ragin Cajun 12 Federal #001H

County: Lea County, New Mexico

Description:
View of Excavation.



PHOTOGRAPHIC LOG

Devon Energy Production Company

Photograph No. 4

Facility: Ragin Cajun 12 Federal #001H

County: Lea County, New Mexico

Description:
View of Excavation.



Photograph No. 5

Facility: Ragin Cajun 12 Federal #001H

County: Lea County, New Mexico

Description:
View of Excavation.

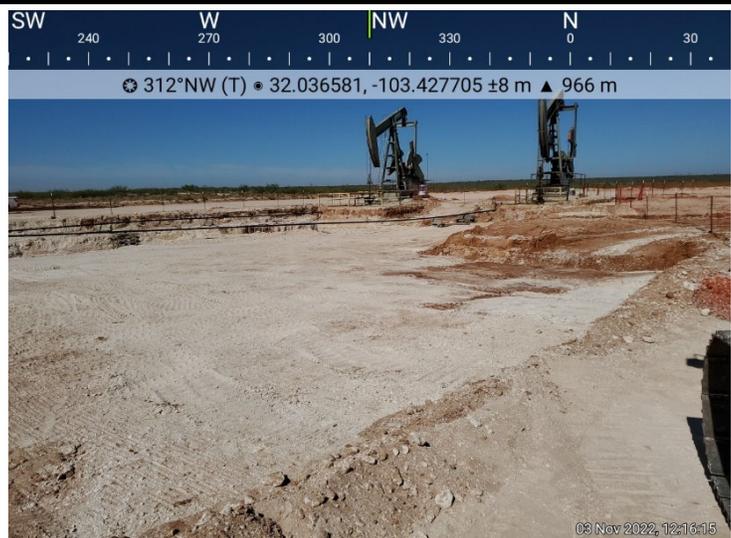


Photograph No. 6

Facility: Ragin Cajun 12 Federal #001H

County: Lea County, New Mexico

Description:
View of Excavation.



PHOTOGRAPHIC LOG

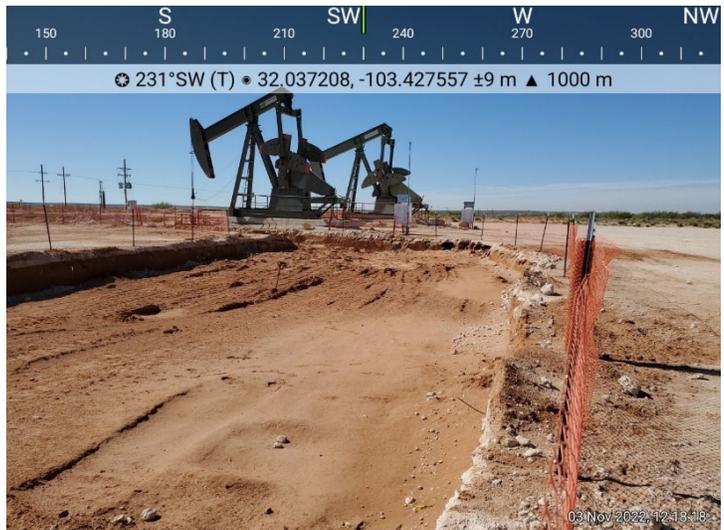
Devon Energy Production Company

Photograph No. 7

Facility: Ragin Cajun 12 Federal #001H

County: Lea County, New Mexico

Description:
View of Excavation.

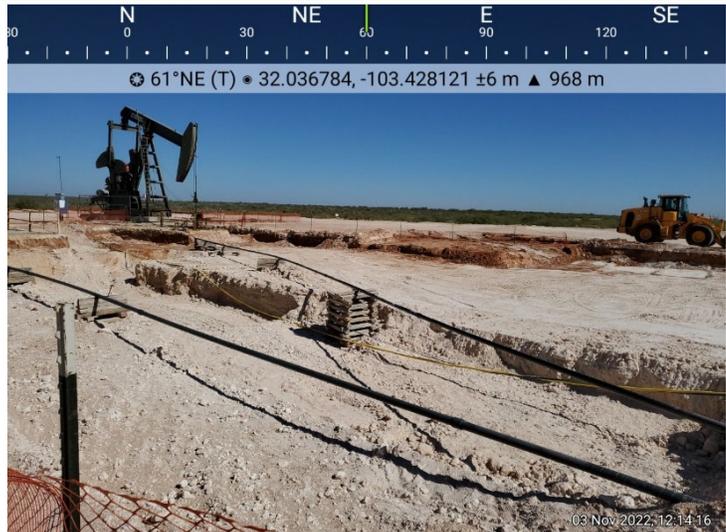


Photograph No. 8

Facility: Ragin Cajun 12 Federal #001H

County: Lea County, New Mexico

Description:
View of Excavation.

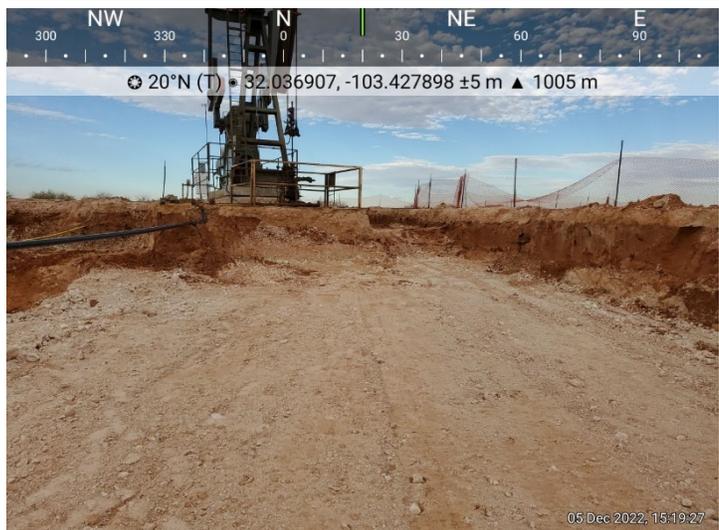


Photograph No. 9

Facility: Ragin Cajun 12 Federal #001H

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.

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,

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	Sampling Date:	09/27/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226038	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: H - 1 (H224539-01)

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	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	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



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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 - 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

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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:	09/29/2022	Sampling Date:	09/27/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226038	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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

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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	Sampling Date:	09/27/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226038	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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

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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	Sampling Date:	09/27/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226038	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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

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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	Sampling Date:	09/27/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226038	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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



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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	Sampling Date:	09/27/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226038	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, 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	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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* = 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:	09/29/2022	Sampling Date:	09/27/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226038	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, 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*	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	Sampling Date:	09/27/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226038	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, 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	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	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226038	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226038	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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Analytical Results For:

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

Received:	09/29/2022	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226038	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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

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	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	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	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226038	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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

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	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	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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Analytical Results For:

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

Received:	09/29/2022	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226038	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, 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	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	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226038	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, SM4500CI-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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Analytical Results For:

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

Received:	09/29/2022	Sampling Date:	09/27/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226038	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226038	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, 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*	<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	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226038	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, 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 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	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226038	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No: 1224539-1

Page 2 of 2

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: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund	
State of Project:	
Reporting Level: <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRP <input type="checkbox"/> Level IV	
Deliverables: <input type="checkbox"/> 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:		<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush								None: NO	
Project Location:	Lea Co, NM	Due Date:	48Hr								DI Water: H ₂ O	
Sampler's Name:	Jordan Tyner	TAT starts the day received by the lab, if received by 4:30pm									Cool: Cool	
PO #:	21053206										HCL: HC	
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 ₂ SO ₄ : H ₂
Received In tact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:										H ₃ PO ₄ : HP
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:										NAHSO ₄ : NABIS
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:										Na ₂ S ₂ O ₃ : NaSO ₃
Total Containers:	20	Corrected Temperature:										Zn Acetate+NaOH: Zn
												NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	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:

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 \$95.00 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
		9/29-22 1458			



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.

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".

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	Sampling Date:	10/27/2022
Reported:	10/31/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	** (See Notes)
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, SM4500CI-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

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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	Sampling Date:	10/27/2022
Reported:	10/31/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	** (See Notes)
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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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	Sampling Date:	10/27/2022
Reported:	10/31/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	** (See Notes)
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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

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 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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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	Sampling Date:	10/27/2022
Reported:	10/31/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	** (See Notes)
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	10/27/2022
Reported:	10/31/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	** (See Notes)
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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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

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No: HA2566

Page 1 of 4

Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Matthews
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.Matthews@dvn.com

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

Project Name:	Regin Cyn 13-1	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush
Project Number:	226363	Due Date:	Same Day
Project Location:	Ken ID, MN	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Kenny Hen		
PO #:	21053206		

SAMPLE RECEIPT	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received Intact:	Thermometer ID:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Cooler Custody Seals:	Correction Factor:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample Custody Seals:	Temperature Reading:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Total Containers:	Corrected Temperature:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Parameters	Pres. Code
BTEX 8021B	
TPH 8015M (GRO + DRO + MRO)	
Chloride 4500	
HOLD	
Preservative Codes	
None: NO	DI Water: H ₂ O
Cool: Cool	MeOH: Me
HCL: HC	HNO ₃ : HN
H ₂ SO ₄ : H ₂	NaOH: Na
H ₃ PO ₄ : HP	
NaHSO ₄ : NABIS	
Na ₂ S ₂ O ₃ : NASO ₃	
Zn Acetate+NaOH: Zn	
NaOH+Ascorbic Acid: SAPC	

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	ANALYSIS REQUEST	Preservative Codes
TP-1	7/1	10:27	↓	↓	G	1		
TP-2	8/1	8:30	↓	↓		1		
TP-2	6/1		↓	↓		1		
TP-3	6/1		↓	↓		1		
TP-3	7/1		↓	↓		1		

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 \$95.00 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
<i>[Signature]</i>	<i>[Signature]</i>	10-27-22 11:18			



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.

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.

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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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

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	11/04/2022	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) 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

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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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, SM4500CI-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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, 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	11/04/2022	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



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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, 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	11/05/2022	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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, 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	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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, 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	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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, 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	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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, 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	11/07/2022	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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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

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	11/05/2022	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, 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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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

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	11/05/2022	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) 99.1 % 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	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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, SM4500CI-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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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

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	11/04/2022	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) 83.4 % 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	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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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

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	11/04/2022	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) 83.4 % 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	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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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

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) 87.0 % 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	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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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

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) 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	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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, 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*	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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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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, SM4500Cl-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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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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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



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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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, SM4500Cl-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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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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, SM4500CI-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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, 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 101 % 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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, 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 96.1 % 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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, 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	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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, SM4500CI-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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, SM4500CI-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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, SM4500Cl-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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, 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	11/08/2022	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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, 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	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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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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, 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	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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, 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	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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, SM4500Cl-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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, SM4500Cl-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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, SM4500CI-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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, SM4500CI-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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, SM4500Cl-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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: CS - 68 (6') (H225227-68)

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	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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, SM4500Cl-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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: CS - 71 (3.5') (H225227-71)

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	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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, SM4500Cl-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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, SM4500Cl-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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, SM4500Cl-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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, SM4500Cl-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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: CS - 79 (3.5') (H225227-79)

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) 90.8 % 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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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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: CS - 80 (3.5') (H225227-80)

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	11/08/2022	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 BTEX	<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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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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: CS - 81 (3.5') (H225227-81)

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	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 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	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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, 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 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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, 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 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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, SM4500CI-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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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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: SW - 5 (H225227-90)

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	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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No: 1425227

Page 3 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@dvn.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund
State of Project:	
Reporting Level II	<input type="checkbox"/> Level III <input type="checkbox"/> bST/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:	Project Number:	Project Location:	Sampler's Name:	PO #:	Turn Around		Pres. Code	ANALYSIS REQUEST			Preservative Codes	
					<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush		Due Date:	48 Hr	BTEX 8021B		TPH 8015M (GRO + DRO + MRO)
Ragin Cajun 13-1	226363	Lea Co. NM	Kenny Han	21073110								
SAMPLE RECEIPT				Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	113	Parameters			
Received In tact:				Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A	Correction Factor:	-0.06%				
Sample Custody Seals:				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A	Temperature Reading:	5.06%					
Total Containers:				115	Corrected Temperature:	4.4%						
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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<i>[Signature]</i>	<i>[Signature]</i>	11-4-22 12:45			



Chain of Custody

Work Order No: H225227

Page 4 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@dvn.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund
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:	Project Number:	Project Location:	Sampler's Name:	PO #:	Turn Around		Pres. Code	ANALYSIS REQUEST			Preservative Codes	
					<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush		Due Date:	48 Hr			
Ragin Cajun 13-1	226363	Lea Co. NM	Kenny Han	21073110								
SAMPLE RECEIPT				Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Parameters				
Received In tact:				Thermometer ID:	113	BTEX 8021B						
Cooler Custody Seals:				Correction Factor:	-0.06	TPH 8015M (GRO + DRO + MRO)						
Sample Custody Seals:				Temperature Reading:	5.02	Chloride 4500						
Total Containers:				Corrected Temperature:	4.42							
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont						
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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Chain of Custody

Work Order No: HAAS02

Page 8 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@dev.com

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

Project Name:	Ragin Cajun 13-1	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	
Project Number:	226363	Due Date:	48 Hr		
Project Location:	Lea Co. NM	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Kenny Han				
PO #:	21073110				

SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	-0.62
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	5.02		
Total Containers:	115	Corrected Temperature:	4.42		

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters			Sample Comments
							BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	
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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<i>[Signature]</i>	<i>[Signature]</i>	11-4-22 12:45			



Chain of Custody

Work Order No: H28522

Page 9 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@dev.com

Work Order Comments	
Program: <input type="checkbox"/> PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund	State of Project:
Reporting Level: <input type="checkbox"/> II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	Deliverables: <input type="checkbox"/> 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				
Project Location:	Lea Co. NM	Due Date:	48 Hr				
Sampler's Name:	Kenny Han	TAT starts the day received by the lab, if received by 4:30pm					
PO #:	21073110	Temp Blank:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Thermometer ID:			
SAMPLE RECEIPT		Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:			
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	Temperature Reading:			
Total Containers:	115	Corrected Temperature:	4.4°C				

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters			Sample Comments
							BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	
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
<i>[Signature]</i>	<i>[Signature]</i>	11-4-22 12:45			



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.

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.

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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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



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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, 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 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, 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	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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, SM4500Cl-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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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



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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, 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	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

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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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, 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	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



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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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, SM4500CI-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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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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*=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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, SM4500CI-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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, 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	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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Analytical Results For:

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

Received:	11/04/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226363	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

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, SM4500CI-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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No: 11-4-22-1345

Page 10 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@dev.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund
State of Project:	
Reporting Level:	<input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV
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 ₂ O Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ NaOH: Na H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC	
Project Location:	Lea Co. NM	Due Date:	48 Hr				
Sampler's Name:	Kenny Han	TAT starts the day received by the lab, if received by 4:30pm					
PO #:	21073110						

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters			Sample Comments
							BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	
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:

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
<i>[Signature]</i>	<i>[Signature]</i>	11-4-22 1345			



Chain of Custody

Work Order No:

4225228

Project Manager: Ethan Sessums
 Company Name: NTG Environmental
 Address: 402 E Wood Ave
 City, State ZIP: Carlsbad, NM 88220
 Phone: 254-266-5456
 Email: Wesley.Mathews@dmv.com

Bill to: (if different) Wesley Mathews
 Company Name: Devon Energy
 Address: 6488 Seven Rivers Highway
 City, State ZIP: Artesia, NM 88210

Program: UST/PST PRP Brownfields RRC Superfund
 State of Project: Level II Level III PST/UST TRRP Level IV
 Deliverables: EDD ADAPT Other:

Project Name: Ragin Cajun 13-1
 Project Number: 226363
 Project Location: Lea Co. NM
 Sampler's Name: Kenny Han
 PO #: 21073110

Temp Blank: Yes No
 Thermometer ID: Yes No
 Cooler Custody Seals: Yes No
 Sample Custody Seals: Yes No
 Total Containers: 115

Turn Around: Routine Rush
 Due Date: 48 Hr
 TAT starts the day received by the lab, if received by 4:30pm

Wet Ice: Yes No
 Correction Factor: -0.016
 Temperature Reading: 5.0°C
 Corrected Temperature: 4.4°C

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters			Preservative Codes
							BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	
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:

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

Revised Date 05/1/2020 Rev. 2020.1



Chain of Custody

Work Order No: HA2522

Page 12 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@devn.com

Work Order Comments	
Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund	State of Project:
Reporting Level: <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV	Deliverables: <input type="checkbox"/> 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				
Project Location:	Lee Co. NM	Due Date:	48 Hr				
Sampler's Name:	Kenny Han	TAT starts the day received by the lab, if received by 4:30pm					
PO #:	21073110						
SAMPLE RECEIPT	Temp Blank:	Yes	<input checked="" type="checkbox"/> No	Thermometer ID:			
Received Intact:	Yes	<input checked="" type="checkbox"/> No		Wet Ice:	Yes	<input checked="" type="checkbox"/> No	
Cooler Custody Seals:	Yes	<input checked="" type="checkbox"/> No		Correction Factor:	-0.6%		
Sample Custody Seals:	Yes	<input checked="" type="checkbox"/> No		Temperature Reading:	5.0°C		
Total Containers:	115	Corrected Temperature:	4.4°C				

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	Sample Comments
SW-26	11/3/2022	1pm	X		Comp	1	BTEX 8021B	
SW-27	11/3/2022	1pm	X		Comp	1	TPH 8015M (GRO + DRO + MRO)	
SW-28	11/3/2022	1pm	X		Comp	1	Chloride 4500	
SW-29	11/3/2022	1pm	X		Comp	1		
SW-30	11/3/2022	1pm	X		Comp	1		

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time



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.

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 "Mike Snyder". The signature is fluid and cursive, written in a professional style.

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	Sampling Date:	12/05/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226362 (7.21.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

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

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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	Sampling Date:	12/05/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226362 (7.21.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

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, 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 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	Sampling Date:	12/05/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226362 (7.21.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

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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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	Sampling Date:	12/05/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226362 (7.21.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

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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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	Sampling Date:	12/05/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226362 (7.21.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

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, SM4500Cl-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	Sampling Date:	12/05/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226362 (7.21.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	12/05/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226362 (7.21.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

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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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	Sampling Date:	12/05/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226362 (7.21.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

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, SM4500Cl-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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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	Sampling Date:	12/05/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226362 (7.21.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

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



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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	Sampling Date:	12/05/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226362 (7.21.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

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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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	Sampling Date:	12/05/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226362 (7.21.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

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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Analytical Results For:

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

Received:	12/06/2022	Sampling Date:	12/05/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226362 (7.21.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

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, SM4500Cl-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	Sampling Date:	12/05/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226362 (7.21.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

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, SM4500Cl-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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Analytical Results For:

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

Received:	12/06/2022	Sampling Date:	12/05/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226362 (7.21.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

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



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	Sampling Date:	12/05/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226362 (7.21.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

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	Sampling Date:	12/05/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226362 (7.21.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

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, 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 58.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 61.2 % 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	Sampling Date:	12/05/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226362 (7.21.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

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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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	Sampling Date:	12/05/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226362 (7.21.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

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, SM4500Cl-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	Sampling Date:	12/05/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226362 (7.21.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

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, 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	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	Sampling Date:	12/05/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226362 (7.21.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

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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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, 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	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	Sampling Date:	12/05/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226362 (7.21.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

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, 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	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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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	Sampling Date:	12/05/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226362 (7.21.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

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, 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	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



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	Sampling Date:	12/05/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226362 (7.21.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

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



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	Sampling Date:	12/05/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226362 (7.21.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

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

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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	Sampling Date:	12/05/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226362 (7.21.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

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, 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	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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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	Sampling Date:	12/05/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 13 - 1	Sampling Condition:	Cool & Intact
Project Number:	226362 (7.21.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

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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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No: 1025719-127

Page 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@dvn.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund
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
Deliverables: EDD	<input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:	Turn Around		Pres. Code	ANALYSIS REQUEST			Preservative Codes
	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush					
Project Number:	226362	Due Date:	48hr				None: NO DI Water: H ₂ O
Project Location:	Eddy Co. NM	TAT starts the day received by the lab, if received by 4:30pm					Cool: Cool MeOH: Me
Sampler's Name:	Jordan Tyner	Well Ice: <u>Yes</u> <input checked="" type="checkbox"/> <u>No</u> <input type="checkbox"/>					HCL: HC HNO ₃ : HN
PO #:	21053206	Thermometer ID: <u>#113</u>					H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT		Temp Blank:	<u>Yes</u> <input checked="" type="checkbox"/> <u>No</u> <input type="checkbox"/>				H ₃ PO ₄ : HP
Received In tact:	<u>Yes</u> <input checked="" type="checkbox"/> <u>No</u> <input type="checkbox"/>	Correction Factor:	<u>-0.06E</u>				NaHSO ₄ : NABIS
Cooler Custody Seals:	<u>Yes</u> <input checked="" type="checkbox"/> <u>No</u> <input type="checkbox"/>	Temperature Reading:	<u>-12.6C</u>				Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	<u>Yes</u> <input checked="" type="checkbox"/> <u>No</u> <input type="checkbox"/>	Corrected Temperature:	<u>-12.6C</u>				Zn Acetate+NaOH: Zn
Total Containers:	27						NaOH+Ascorbic Acid: S APC
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Sample Comments
CS-10 (4.5')	12/5/2022		X		Comp	1	
CS-20 (4.5')	12/5/2022		X		Comp	1	
CS-21 (4.5')	12/5/2022		X		Comp	1	
CS-22 (4.5')	12/5/2022		X		Comp	1	
CS-23 (4.5')	12/5/2022		X		Comp	1	
CS-24 (4.5')	12/5/2022		X		Comp	1	
CS-26 (8')	12/5/2022		X		Comp	1	
CS-28 (4.5')	12/5/2022		X		Comp	1	
CS-29 (4.5')	12/5/2022		X		Comp	1	
CS-31 (8')	12/5/2022		X		Comp	1	

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
<i>[Signature]</i>	<i>[Signature]</i>	12/13/21			

Received by OCD: 2/23/2023 2:37:26 PM



Chain of Custody

Work Order No: 19A5719-1-27

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@dvn.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund
State of Project:	
Reporting Level:	<input type="checkbox"/> 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 (7.21.22)	Turn Around		Pres. Code	ANALYSIS REQUEST			Preservative Codes
		<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush		BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	
Project Number:	226362	Due Date: 48hr						
Project Location:	Eddy Co. NM	TAT starts the day received by the lab, if received by 4:30pm						
Sampler's Name:	Jordan Tyner							
PO #:	21053206							
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 In tact:	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:	0.06					
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading:	-18.2					
Total Containers:	27	Corrected Temperature:	-18.0					
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Sample Comments	
CS-32 (4.5')	12/5/2022		X		Comp	1		
CS-38 (4.5')	12/5/2022		X		Comp	1		
CS-39 (4.5')	12/5/2022		X		Comp	1		
CS-40 (8')	12/5/2022		X		Comp	1		
CS-44 (3')	12/5/2022		X		Comp	1		
CS-46 (4.5')	12/5/2022		X		Comp	1		
CS-47 (4.5')	12/5/2022		X		Comp	1		
CS-48 (4.5')	12/5/2022		X		Comp	1		
CS-49 (8')	12/5/2022		X		Comp	1		
CS-51 (3')	12/5/2022		X		Comp	1		

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



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.

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.

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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
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**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

Chloride	224		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	
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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			89.4 %		45.3-161	2120633	MS	07-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			93.1 %		46.3-178	2120633	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
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**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

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	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			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	

<i>Surrogate: 1-Chlorooctane</i>			82.5 %	45.3-161		2120633	MS	07-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			86.1 %	46.3-178		2120633	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
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**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	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			109 %	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	

<i>Surrogate: 1-Chlorooctane</i>			93.7 %	45.3-161		2120633	MS	07-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			95.7 %	46.3-178		2120633	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
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**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	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			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	

<i>Surrogate: 1-Chlorooctane</i>			92.2 %		45.3-161	2120633	MS	07-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			97.1 %		46.3-178	2120633	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
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**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-CI-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	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			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	

<i>Surrogate: 1-Chlorooctane</i>			89.1 %	45.3-161		2120633	MS	07-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			93.6 %	46.3-178		2120633	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
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**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-CI-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	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			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	

<i>Surrogate: 1-Chlorooctane</i>			84.7 %	45.3-161		2120635	MS	07-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			95.8 %	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
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**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-CI-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	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			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	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>			83.0 %	45.3-161		2120635	MS	07-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			97.9 %	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
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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	

<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>			93.6 %		45.3-161	2120635	MS	07-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			109 %		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
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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-CI-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>			103 %	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>			92.7 %	45.3-161		2120635	MS	07-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			108 %	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
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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-CI-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>			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	

<i>Surrogate: 1-Chlorooctane</i>			85.8 %	45.3-161		2120635	MS	07-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			101 %	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
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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-CI-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>			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	

<i>Surrogate: 1-Chlorooctane</i>			86.4 %	45.3-161		2120635	MS	07-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			97.5 %	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
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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

Chloride	192		16.0	mg/kg	4	2120724	AC	07-Dec-22	4500-CI-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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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
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**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

Chloride	16.0		16.0	mg/kg	4	2120724	AC	07-Dec-22	4500-CI-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
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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-CI-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>			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	

<i>Surrogate: 1-Chlorooctane</i>			88.4 %	45.3-161		2120635	MS	07-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			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
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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-CI-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>			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	

<i>Surrogate: 1-Chlorooctane</i>			90.7 %	45.3-161		2120635	MS	07-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			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
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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-CI-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>			82.7 %	45.3-161		2120635	MS	07-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			93.1 %	46.3-178		2120635	MS	07-Dec-22	8015B	
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Cardinal Laboratories

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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
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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-CI-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>			93.2 %	45.3-161		2120635	MS	07-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			104 %	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
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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-CI-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>			93.2 %	45.3-161		2120635	MS	07-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			104 %	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
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**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-CI-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>			85.3 %	45.3-161		2120635	MS	07-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			96.2 %	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
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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-CI-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>			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	

<i>Surrogate: 1-Chlorooctane</i>			91.6 %	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
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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-CI-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>			89.9 %	45.3-161		2120635	MS	07-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			100 %	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
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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-CI-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>			91.0 %	45.3-161		2120635	MS	07-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			102 %	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
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**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

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	

<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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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
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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	

<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>			90.9 %	45.3-161		2120635	MS	07-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			104 %	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
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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

Chloride	160		16.0	mg/kg	4	2120724	AC	07-Dec-22	4500-CI-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>			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	

<i>Surrogate: 1-Chlorooctane</i>			87.0 %		45.3-161	2120635	MS	07-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			99.9 %		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
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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-CI-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	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	

<i>Surrogate: 1-Chlorooctane</i>			80.1 %	45.3-161		2120636	MS	07-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			85.8 %	46.3-178		2120636	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
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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-CI-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	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	

<i>Surrogate: 1-Chlorooctane</i>			85.1 %	45.3-161		2120636	MS	07-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			90.6 %	46.3-178		2120636	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
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2120719 - 1:4 DI Water										
Blank (2120719-BLK1)										
Prepared & Analyzed: 07-Dec-22										
Chloride	ND	16.0	mg/kg							
LCS (2120719-BS1)										
Prepared & Analyzed: 07-Dec-22										
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (2120719-BSD1)										
Prepared & Analyzed: 07-Dec-22										
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
Batch 2120724 - 1:4 DI Water										
Blank (2120724-BLK1)										
Prepared & Analyzed: 07-Dec-22										
Chloride	ND	16.0	mg/kg							
LCS (2120724-BS1)										
Prepared & Analyzed: 07-Dec-22										
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (2120724-BSD1)										
Prepared & 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 & 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 & 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-BS1)

Prepared & 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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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
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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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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
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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

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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
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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 & 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 & 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
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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
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Batch 2120635 - General Prep - Organics

LCS (2120635-BS1)		Prepared & 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-BSD1)		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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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
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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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Chain of Custody

Work Order No: 1825718-1-a

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@dyn.com

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

ANALYSIS REQUEST

Project Name:	Ragin Cajun 13-1 (9.13.22)	Turn Around	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush	Pres. Code	
Project Number:	226363	Due Date:	48hr			
Project Location:	Eddy Co. NM	TAT starts the day received by the lab, if received by 4:30pm				
Sampler's Name:	Jordan Tyrner	Wet Ice:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
PO #:	21073110	Thermometer ID:	#113			
SAMPLE RECEIPT	Temp Blank:	Yes	<input checked="" type="checkbox"/> No			
Received Intact:	Yes	<input checked="" type="checkbox"/> No				
Cooler Custody Seals:	Yes	<input checked="" type="checkbox"/> No				
Sample Custody Seals:	Yes	<input checked="" type="checkbox"/> No				
Total Containers:	27	Temperature Reading:	-18.1°C			
		Corrected Temperature:	-18.1°C			

Parameters	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	Preservative Codes
None: NO				DI Water: H ₂ O
Cool: Cool				MeOH: Me
HCL: HC				HNO ₃ : HN
H ₂ SO ₄ : H ₂				NaOH: Na
H ₃ PO ₄ : HP				
NaHSO ₄ : NABIS				
Na ₂ S ₂ O ₃ : NaSO ₃				
Zn Acetate+NaOH: Zn				
NaOH+Ascorbic Acid: SAPP				

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Sample Comments
SW-21-34	12/5/2022		X		Comp	1	
SW-22-35	12/5/2022		X		Comp	1	
SW-23-30	12/5/2022		X		Comp	1	
SW-27-37	12/5/2022		X		Comp	1	
SW-30-38	12/5/2022		X		Comp	1	
SW-31-39	12/5/2022		X		Comp	1	
SW-32-40	12/5/2022		X		Comp	1	
SW-33-41	12/5/2022		X		Comp	1	
SW-34-42	12/5/2022		X		Comp	1	
SW-35-43	12/5/2022		X		Comp	1	

Additional Comments:
 *customer requested sample ID changes. See photos

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time

Revised Date 05/01/2020 Rev. 2020.1



Chain of Custody

Work Order No: 199578-1-2

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:	WesleyMathews@dvn.com

Program:	UST/PST	<input type="checkbox"/> PRP	<input type="checkbox"/> Brownfields	<input type="checkbox"/> RRC	<input type="checkbox"/> Superfund
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
Deliverables:	EDD	<input type="checkbox"/> ADAPT	<input type="checkbox"/> Other:		

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters			Pres. Code	ANALYSIS REQUEST	Preservative Codes
							BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500			
SW-36-44	12/5/2022		X		Comp	1	X	X	X			None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NAHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
SW-37-45	12/5/2022		X		Comp	1	X	X	X			
SW-38-41P	12/5/2022		X		Comp	1	X	X	X			
SW-39-47	12/5/2022		X		Comp	1	X	X	X			
SW-40-48	12/5/2022		X		Comp	1	X	X	X			
SW-44-49	12/5/2022		X		Comp	1	X	X	X			
SW-42-50	12/5/2022		X		Comp	1	X	X	X			

Additional Comments: * customer requested sample TO change. SP 12/30/22

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
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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

See page two for job notes and contact information.



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



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2/3/2023 11:15:46 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

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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.
α	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

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	DFBZ1
		(70-130)	(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

Surrogate Legend

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	OTPH1
		(70-130)	(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+

Surrogate Legend

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 Limits	RPD	RPD Limit	
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	
LCSD LCSD										
Surrogate	%Recovery	Qualifier	Limits							
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	
MS MS										
Surrogate	%Recovery	Qualifier	Limits							
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 Limits	RPD	RPD Limit
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
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
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 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	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
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	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
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	Limits
Diesel Range Organics (Over C10-C28)	999	947.2		mg/Kg		95	70 - 130
Surrogate	LCS	LCS	Limits				
	%Recovery	Qualifier					
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	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	LCSD	Limits						
	%Recovery	Qualifier							
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	Limits
Diesel Range Organics (Over C10-C28)	80.3		1000	945.9		mg/Kg		87	70 - 130
Surrogate	MS	MS	Limits						
	%Recovery	Qualifier							
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	%Recovery	MSD Qualifier									
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	

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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

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- 11
- 12
- 13
- 14

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)

Lab Sample ID: 890-3917-1

Date Collected: 01/20/23 15:00

Matrix: Solid

Date Received: 01/20/23 16:25

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

- 1
- 2
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- 14

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
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Chain of Custody

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- 12
- 13
- 14

Work Order No: _____

Page 1 of 1

Project Manager: Ethan Sessums
 Company Name: NTG Environmental
 Address: 402 E Wood Ave
 City, State ZIP: Carlsbad, NM 88220
 Phone: 254-266-5456
 Email: Wesley.Mathews@dvn.com

Project Name: Ragin Cajun 13-1
 Project Number: 226363
 Project Location: Lea Co, NM
 Samplers Name: Jordan Tyner
 PO #: 21073110

Turn Around: Routine Rush
 Due Date: TAT starts the day received by the lab, if received by 4:30pm

Company Name: Bill to: (if different)
 Address:
 City, State ZIP:

Program: UST/PST PRR Brownfields RRC Superfund
 State of Project: Level II Level III PST/UST RRP Level IV
 Reporting: Level II Level III PST/UST RRP Level IV
 Deliverables: EDD ADAPT Other:

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
CS-62 (4.5)	1/20/2023		X		Comp	1	BTEX 8021B TPH 8015M (GRO + DRO + MRO) Chloride 4500	 890-3917 Chain of Custody	None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₅ : NASO ₅ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC	

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
<i>[Signature]</i>	<i>[Signature]</i>	1-20-23 16:35	<i>[Signature]</i>	<i>[Signature]</i>	

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	

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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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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 189957

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 189957
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	3/2/2023