

Incident ID	nAPP2201726174
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	198' (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.

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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: Env. Professional

Signature: *Dale Woodall* Date: 5/22/2023

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

OCD Only

Received by: _____ Date: _____

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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.

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Printed Name: Dale Woodall Title: 575-748-1838
 Signature: Dale Woodall Date: 5/22/2023
 email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

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Closure

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

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

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

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

Printed Name: Dale Woodall Title: Env. Professional
 Signature: *Dale Woodall* Date: 5/22/2023
 email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: *Nelson Velez* Date: 08/11/2023
 Printed Name: Nelson Velez Title: Environmental Specialist – Adv



402 E. Wood Avenue
Carlsbad, New Mexico 88220
Tel. 432.701.2159
www.ntgenvironmental.com

April 21, 2022

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

Re: Closure Report
Ragin Cajun 12 Federal #001H
Unit O, S12, T26S, R34E
Site Coordinates: 32.050663, -103.420562
Lea County, New Mexico
Incident ID: nAPP2201726174

Mr. Bratcher:

On behalf of Devon Energy Production Company (Devon), New Tech Global Environmental, LLC (NTGE) has prepared this letter to document site assessment and remedial action activities at the Ragin Cajun 12 Federal #001H (Site). The Site is located approximately 13 miles southwest of Jal, New Mexico in Lea County (Figures 1 and 2).

Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on January 14, 2022. The release was a result of wellhead equipment failure. The failure resulted in the release of approximately 9.51 barrels (bbls) of crude oil of which 7 bbls were recovered. Upon discovery, the well was shut-in and area was secured. The release is shown on Figure 3. The initial C-141 form is attached.

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 water sources within a ½ mile radius of the location. The nearest identified well is located 1.54 mile southeast of the Site in S19 T26S R35E. The well was drilled in 1961 and the reported depth to groundwater is 198' feet below ground surface (ft bgs). A copy of the site characterization information and the associated USGS summary report is attached.

Regulatory Criteria

In accordance with the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria are applicable to the Site.

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH (GRO + DRO + MRO): 100 mg/kg.
- Chloride: 600 mg/kg

Mr. Mike Bratcher
April 21, 2022
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Site Assessment

On January 27, 2022, NTGE conducted site assessment activities to assess the horizontal and vertical extent of impacts at the Site. A total of 3 sample points (S-1 through S-3) were installed within the release area to characterize the impacts. Additionally, 4 horizontal delineation sample points (H-1 through H-4) were installed to define the extent of impacts. Soil samples were collected in 0.5 to 1 ft depth intervals from depths ranging from 0 – 1 ft bgs with a geotechnical handauger. The handauger was decontaminated with Alconox and deionized water between soil borings to prevent cross-contamination. Sample locations are shown on Figure 3.

Soil samples were placed directly into laboratory provided samples containers, placed on ice, and transported under proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico for chemical analysis. Soil samples were analyzed for TPH (EPA method 8015 modified), BTEX (EPA Method 8021B), and chloride (method SM4500Cl-B). The analytical results are included in Table 1. Laboratory reports containing analytical methods and chain-of-custody documents are attached.

Analytical results identified elevated TPH and/or chloride concentrations across the release area (S1 – S3). Soil impacts were not vertically within the release area; however, additional sampling conducted following the remedial action activities described in a subsequent section of this letter were successful in defining the vertical extent of impacts. Analytical results from the horizontal delineation sample point H-4 exhibited chloride concentrations above the regulatory limit and required further delineation which was also achieved during the remedial action activities. All other horizontal delineation sample points exhibited constituent concentrations below the regulatory limits.

Remedial Action Activities and Confirmation Sampling

Based on the analytical results, Devon proceeded with remedial action activities at the Site to include the excavation and disposal of impacted soils above the regulatory limits. The entire release area was excavated to a depth of 3 ft bgs and the excavation was expanded to encompass the area of H4. The excavation area is illustrated on Figure 4.

The soils were field screened during excavation activities to aide in determining final excavation depths, primarily in the areas of S1 – S3 and H4, where the vertical and horizontal delineation of impacts was not achieved during site assessment activities. A total of 5 confirmation samples were collected from the excavation base (CS-1 - CS-5) and 9 confirmation samples were collected from the excavation sidewalls (SW-1 - SW-9) were collected from the excavation sidewalls to ensure impacted soil was removed.

The confirmation samples were collected every 200 square feet and analyzed for TPH (EPA method 8015 modified), BTEX (EPA Method 8021B), and chloride (method SM4500Cl-B). Following receipt of the analytical results, analytical results indicated further excavation in the area of CS-1 was required. The excavation was extended to a depth of 3.5 ft bgs in this area. A total of 1 confirmation sample was collected from the excavation base (CS-1) and 4 confirmation samples were collected from the excavation sidewalls (SW-10 - SW-14) to ensure impacted soil was removed. The excavation was backfilled and returned to near-natural grade. The final excavation extent and confirmation sample locations are shown on Figure 4. Analytical results of the confirmation samples are included in Table 2

Closing

Based on the assessment and subsequent remedial action activities, the Site is in compliance with the regulatory limits and no further actions are required at the site. A copy of the final C- 141 is attached

Mr. Mike Bratcher
April 21, 2022
Page 3 of 3

and Devon formally request a no further action designation for the Site. If you have any questions regarding this report or need additional information, please contact us at 432-701-2159.

Sincerely,
NTG Environmental



Ethan Sessums
Jr. Project Manager

Attachments:

- Initial And Final C-141
- Site Characterization Information
- Tables
- 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

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

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Incident ID	
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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

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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 DeHoyos</u> Date: _____ email: _____ Telephone: _____
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>2/15/2022</u>

NAPP2201726174

Spill Volume(Bbls) Calculator	
<i>Inputs in blue , Outputs in red</i>	
Contaminated Soil measurement	
Area (square feet)	Depth(inches)
<u>1114.326</u>	<u>0.500</u>
Cubic Feet of Soil Impacted	<u>46.430</u>
Barrels of Soil Impacted	<u>8.28</u>
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	<u>1.24</u>
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	1.24
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
<u>1114.326</u>	<u>0.500</u>
Standing fluid	<u>8.276</u>
Total fluids spilled	9.518

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Site Assessment/Characterization

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Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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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 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
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- Laboratory data including chain of custody

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Signature: *Dale Woodall* Date: 5/22/2023

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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)

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 Signature: Dale Woodall Date: 5/22/2023
 email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

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- Description of remediation activities

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Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

SITE CHARACTERIZATION INFORMATION

Devon Energy - Ragin Cajun 12 Federal #001H
Sec 12 T26S R34E Unit B
32.0505981°N, -103.4205627°W
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, 1.54 miles Southeast of the site, 1961 Drilled, Section 19

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

Legend

-  LOW
-  Ragin Cajun 12 Federal #001H



Ragin Cajun 12 Federal #001H



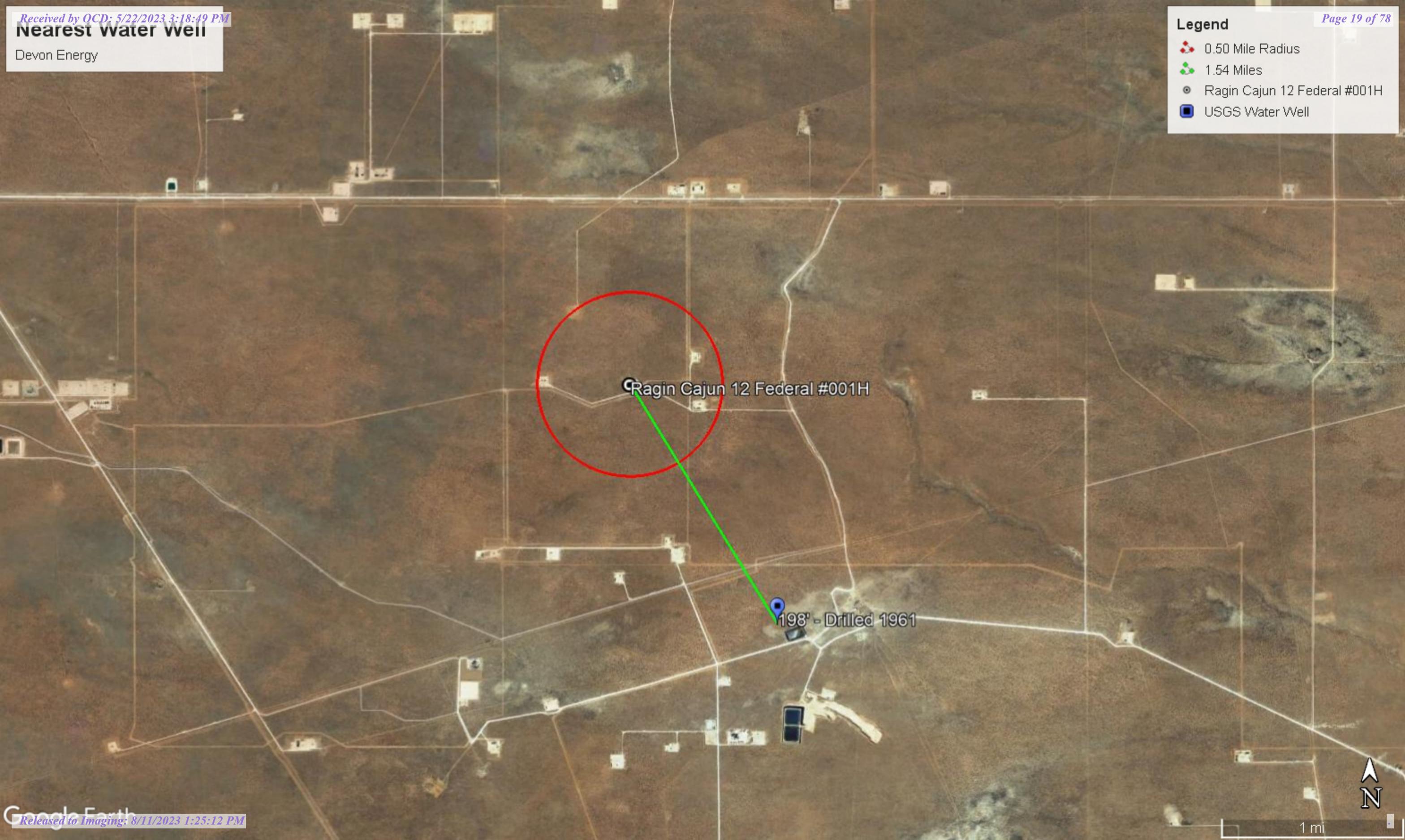
1 mi

Nearest Water Well

Devon Energy

Legend

-  0.50 Mile Radius
-  1.54 Miles
-  Ragin Cajun 12 Federal #001H
-  USGS Water Well

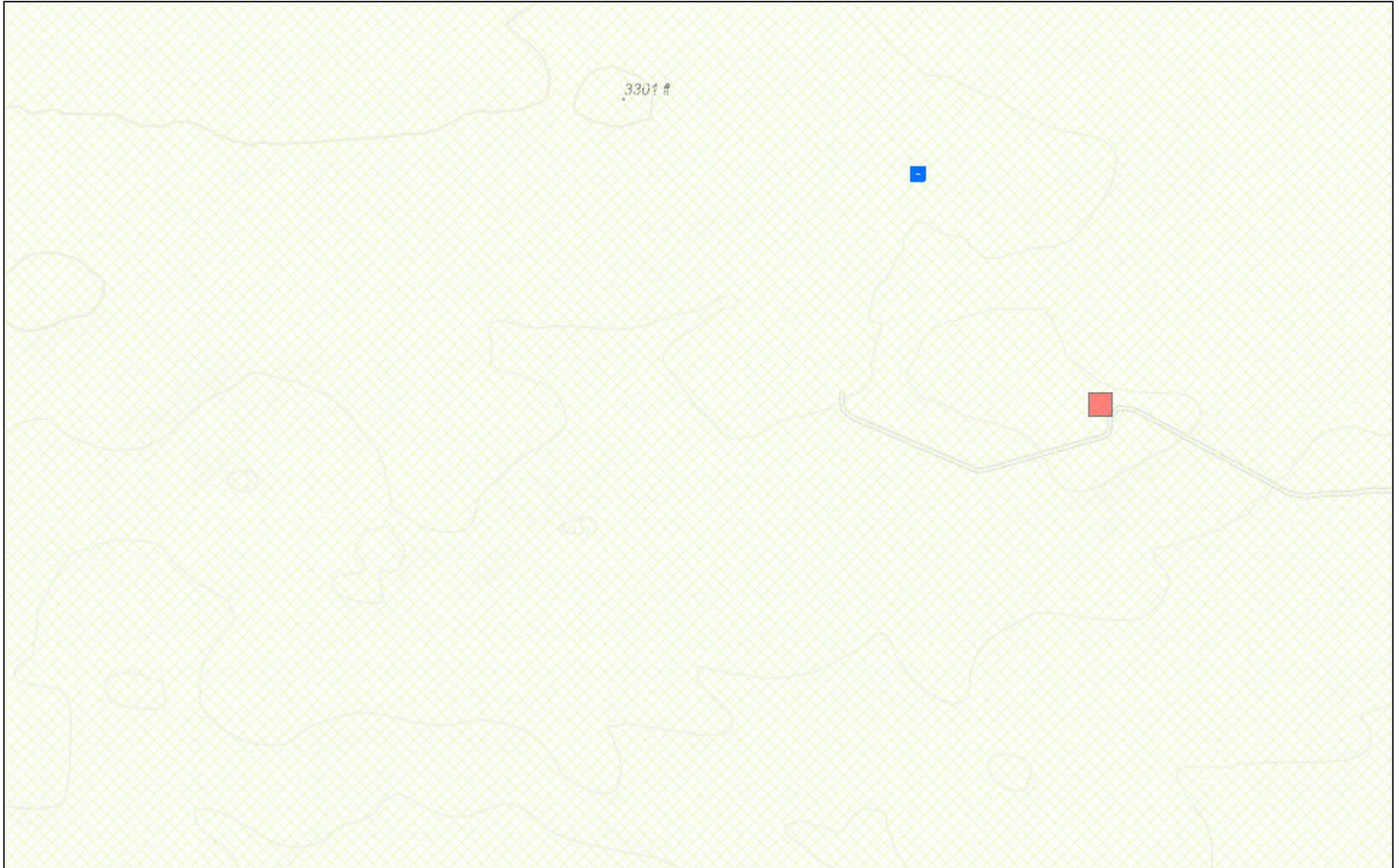


Ragin Cajun 12 Federal #001H

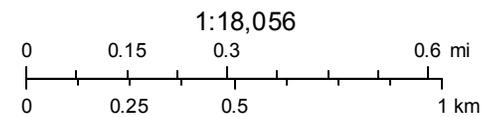
198' - Drilled 1961



New Mexico NFHL Data



January 28, 2022



FEMA
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,



USGS
science for a changing world

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater Geographic Area: New Mexico GO

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

Groundwater levels for New Mexico

Click to hide state-specific text

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 of measurement	Water-level approval status
1961-12-20		D	62610		2992.00	NGVD29	1	O	USGS	S	A
1961-12-20		D	62611		2993.51	NAVD88	1	O	USGS	S	A
1961-12-20		D	72019	198.00			1	O	USGS	S	A

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
Status	1	Static
Method of measurement	O	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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Title: Groundwater for New Mexico: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>



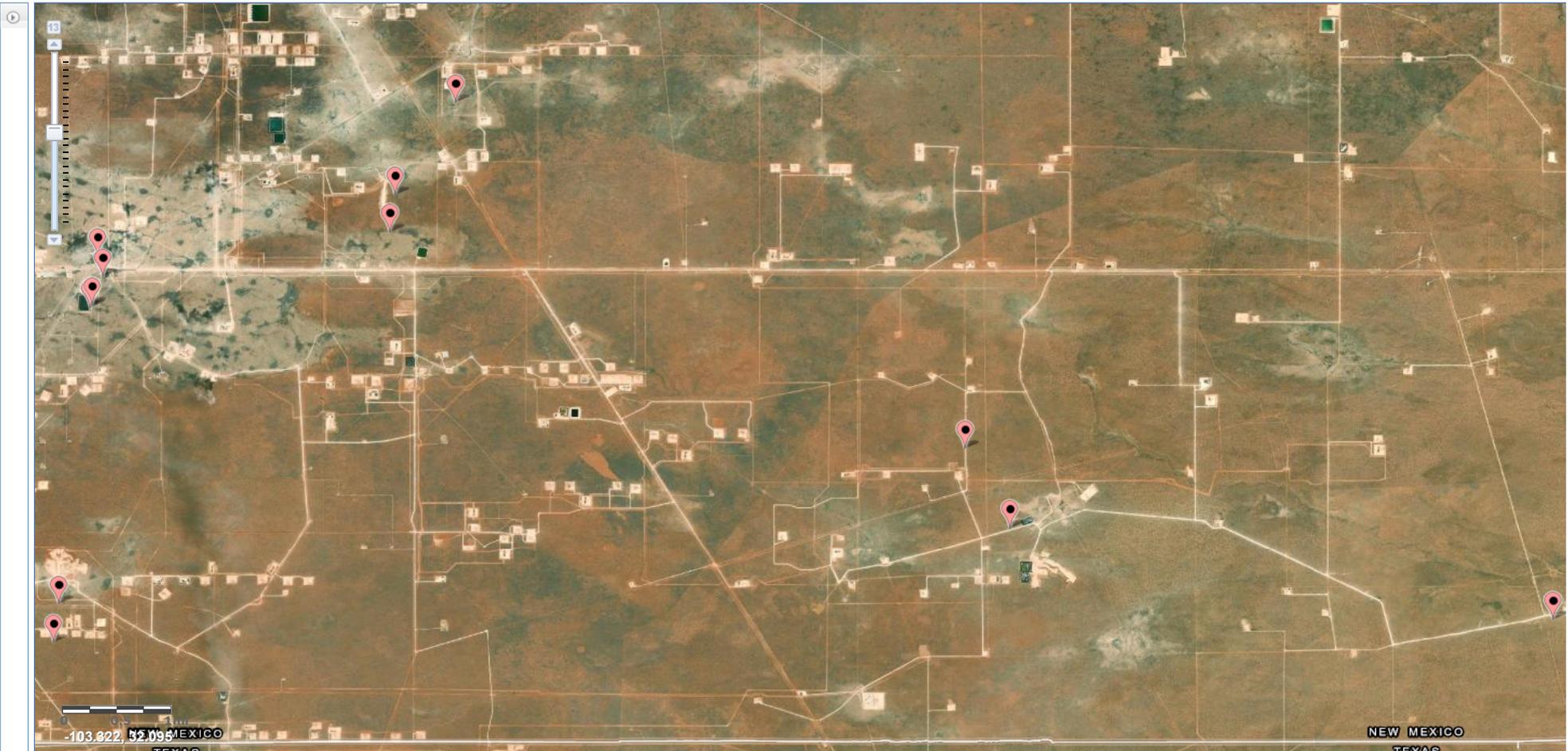
Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2022-01-28 11:04:32 EST

0.32 0.28 nadww01



National Water Information System: Mapper



Site Information



New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 649114.33

Northing (Y): 3547115.89

Radius: 5500

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

TABLES

Table 1
Devon Energy
Ragin Cajun 12 Federal #001H
Lea County, New Mexico

Sample ID	Date	Sample Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			DRO	GRO	MRO	Total						
S-1	1/27/2022	0-1'	26.5	<10.0	<10.0	26.5	<0.050	<0.050	<0.050	<0.150	<0.300	11,200
		1-1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	7,860
S-2	1/27/2022	0-1'	2,810	78.8	524	3,413	<0.050	0.480	0.808	3.83	5.12	17,100
S-3	1/27/2022	0-1'	1,930	38.2	191	2,159	<0.050	0.073	0.238	1.26	1.57	15,200
H-1	1/27/2022	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
H-2	1/27/2022	0-0.5'	11.2	<10.0	<10.0	11.2	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
H-3	1/27/2022	0-0.5'	31.5	<10.0	<10.0	31.5	<0.050	<0.050	<0.050	<0.150	<0.300	368
H-4	1/27/2022	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,800
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 limit

Table 2
 Devon Energy
 Ragin Cajun 12 Federal #001H
 Lea County, New Mexico

Sample ID	Date	Sample Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)	
			DRO	GRO	MRO	Total							
SW-1	3/29/2022	N/A	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48	
SW-2	3/29/2022	N/A	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64	
SW-3	3/29/2022	N/A	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32	
SW-4	3/29/2022	N/A	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272.0	
SW-5	3/29/2022	N/A	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0	
SW-6	3/29/2022	N/A	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160.0	
SW-7	3/29/2022	N/A	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0	
SW-8	3/29/2022	N/A	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0	
SW-9	3/29/2022	N/A	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0	
SW-10	4/4/2022	N/A	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64	
SW-11	4/4/2022	N/A	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64	
SW-12	4/4/2022	N/A	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64	
SW-13	4/4/2022	N/A	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64	
CS-1	3/29/2022	3'	112	<10.0	32.1	144.1	<0.050	<0.050	<0.050	<0.150	<0.300	1,230	
CS-1	4/4/2022	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0	
CS-2	3/29/2022	3'	10.6	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144.0	
CS-3	3/29/2022	3'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0	
CS-4	3/29/2022	3'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0	
CS-5	3/29/2022	3'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144.0	
Regulatory Limits ^A			N/A				100 mg/kg	10 mg/kg	N/A			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A - Table 1 - 19.15.29 NMAC

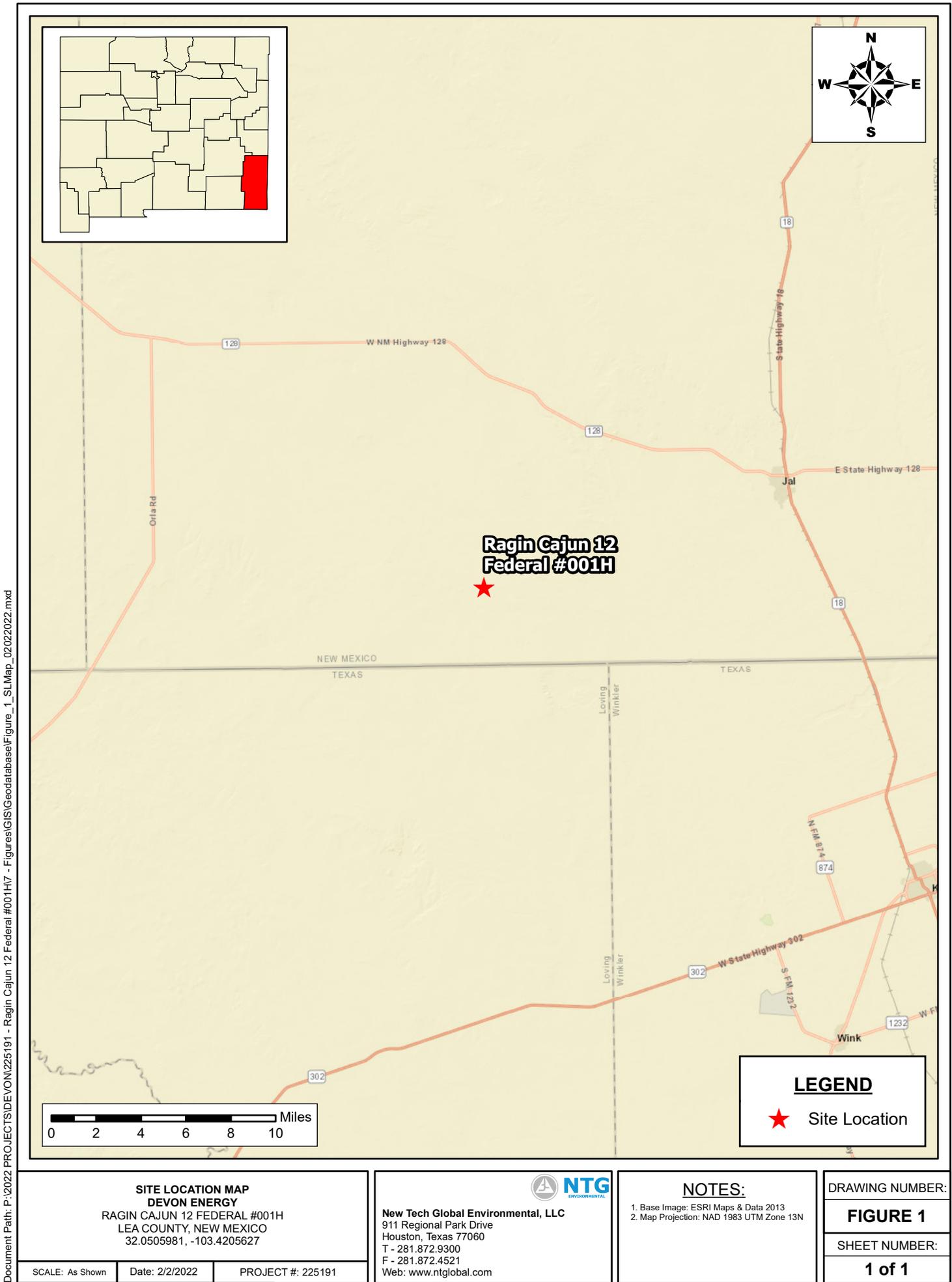
mg/kg - milligram per kilogram

TPH - total petroleum hydrocarbons

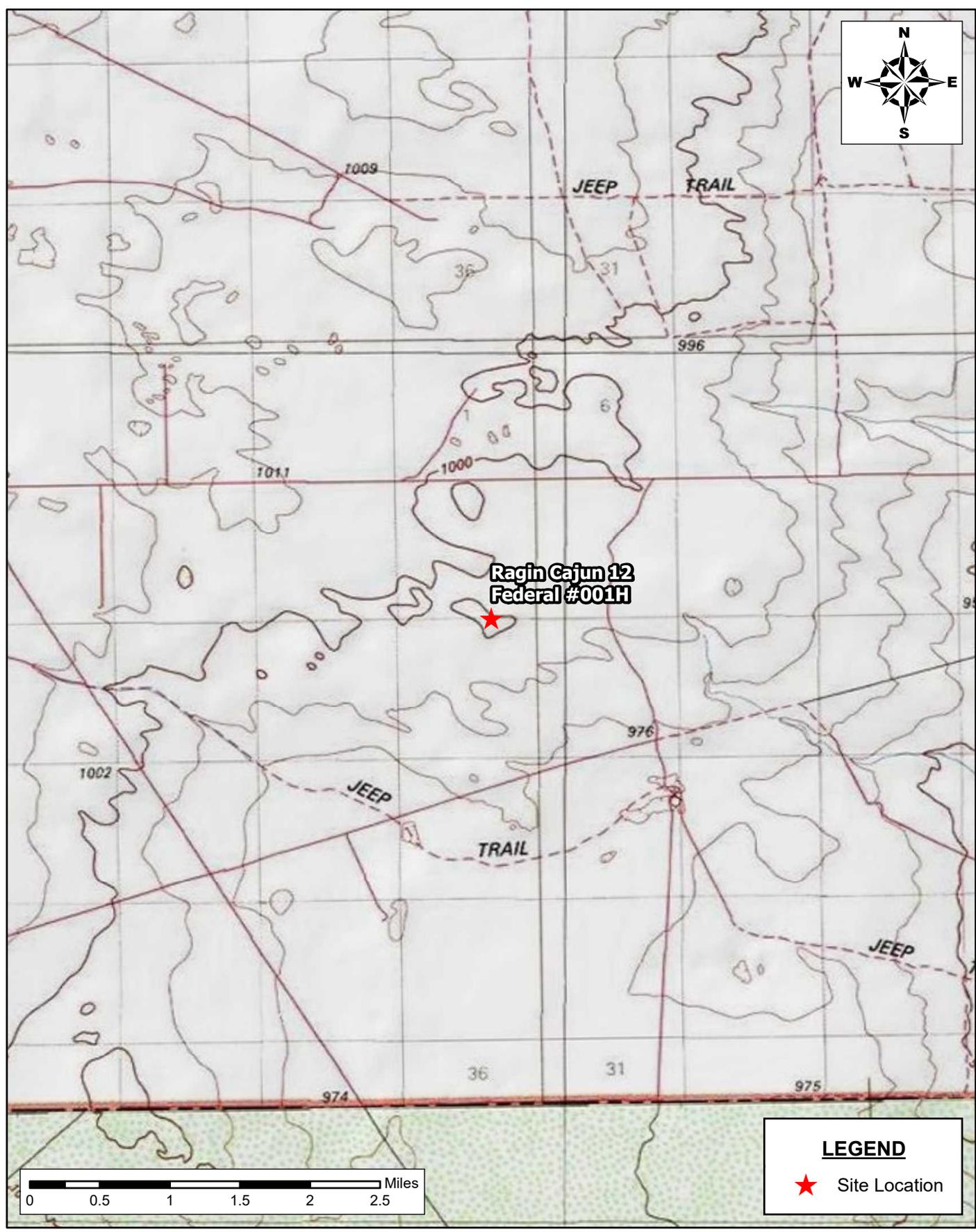
ft-feet

- exceeds regulatory limit; however, was later excavated

FIGURES



Document Path: P:\2022 PROJECTS\DEVON\225191 - Ragin Cajun 12 Federal #001H17 - Figures\GIS\Geodatabase\Figure_2_AREA Map_02022022.mxd



AREA MAP
DEVON ENERGY
 RAGIN CAJUN 12 FEDERAL #001H
 LEA COUNTY, NEW MEXICO
 32.0505981, -103.4205627

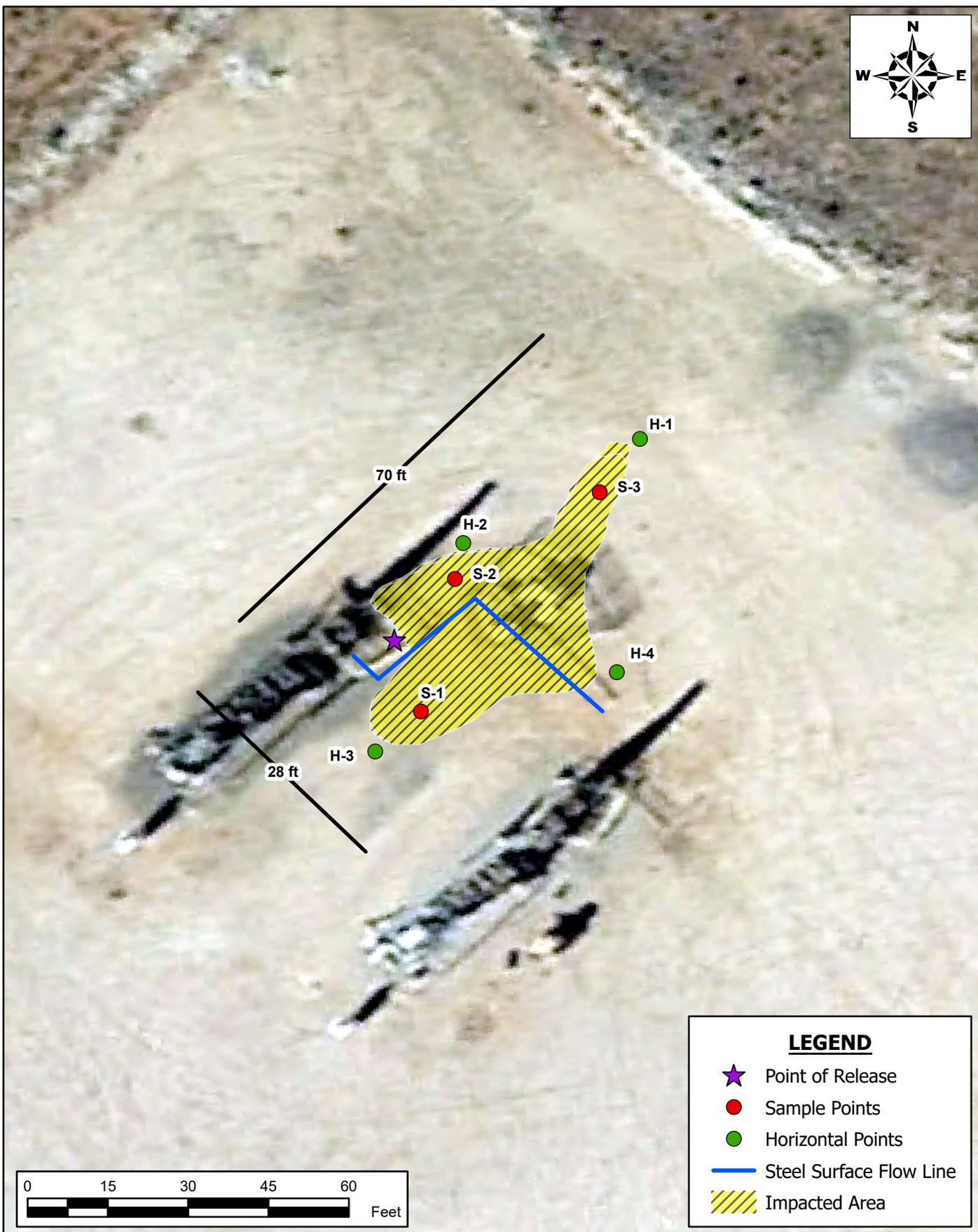
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New Tech Global Environmental, LLC
 911 Regional Park Drive
 Houston, Texas 77060
 T - 281.872.9300
 F - 281.872.4521
 Web: www.ntglobal.com

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

DRAWING NUMBER:
FIGURE 2
 SHEET NUMBER:
1 of 1

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**SAMPLE LOCATION MAP
DEVON ENERGY**

RAGIN CAJUN 12 FEDERAL #001H
LEA COUNTY, NEW MEXICO
32.0505981, -103.4205627



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

NOTES:

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

DRAWING NUMBER:

FIGURE 3

SHEET NUMBER:

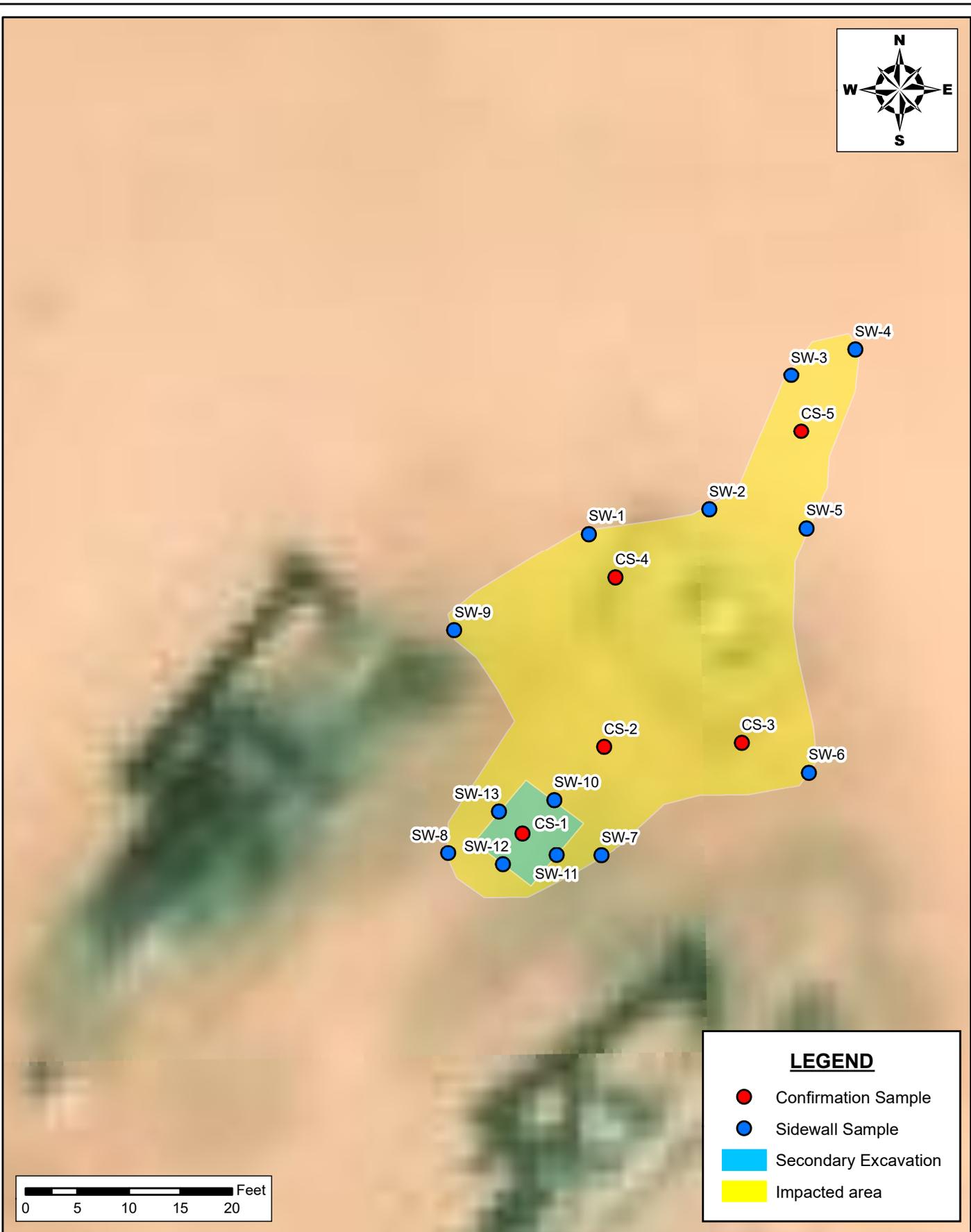
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Date: 2/3/2022

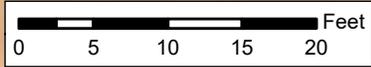
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LEGEND

- Confirmation Sample
- Sidewall Sample
- Secondary Excavation
- Impacted area



AREA MAP
DEVON ENERGY
 RAGIN CAJUN 12 FEDERAL #001H
 LEA COUNTY, NEW MEXICO
 32.0505981, -103.4205627

SCALE: As Shown Date: 4/19/2022 PROJECT #: 225191

NTG
 ENVIRONMENTAL

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

NOTES:

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

DRAWING NUMBER:
FIGURE 4

SHEET NUMBER:
1 of 1

PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG

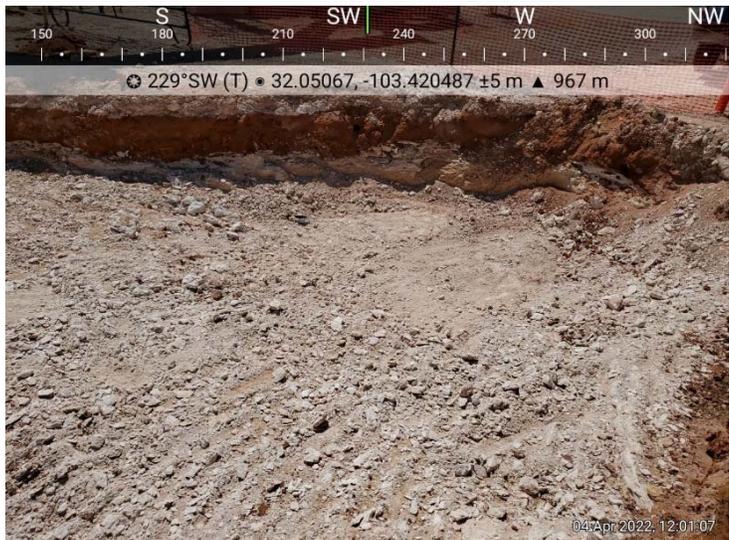
Devon Energy Production Company

Photograph No. 1

Facility: Ragin Cajun 12 Federal 1H

County: Lea County, New Mexico

Description:
View of Excavation.



Photograph No. 2

Facility: Ragin Cajun 12 Federal 1H

County: Lea County, New Mexico

Description:
View of Excavation.

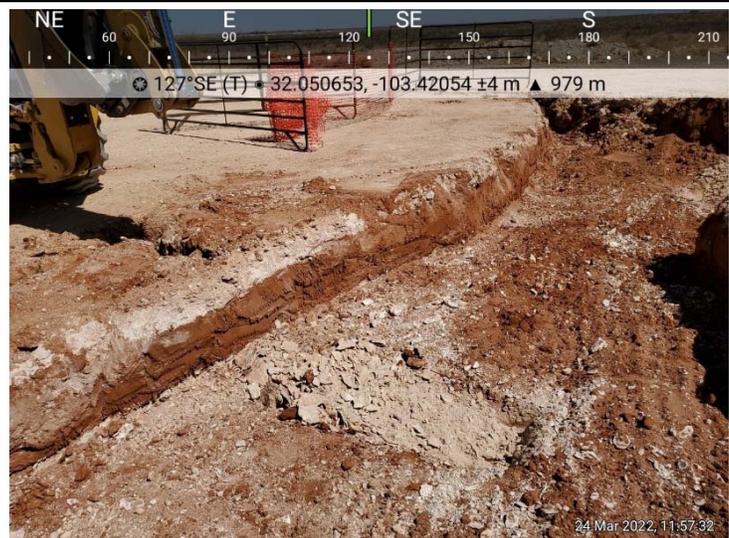


Photograph No. 3

Facility: Ragin Cajun 12 Federal 1H

County: Lea County, New Mexico

Description:
View of Excavation.



PHOTOGRAPHIC LOG

Devon Energy Production Company

Photograph No. 4

Facility: Ragin Cajun 12 Federal 1H

County: Lea County, New Mexico

Description:
View of Excavation.



Photograph No. 5

Facility: Ragin Cajun 12 Federal 1H

County: Lea County, New Mexico

Description:
View of Excavation.

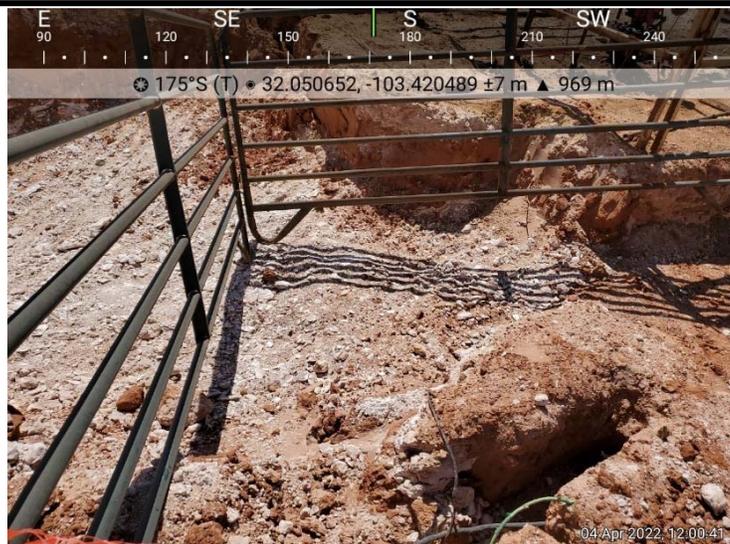


Photograph No. 6

Facility: Ragin Cajun 12 Federal 1H

County: Lea County, New Mexico

Description:
View of Excavation.



LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS



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

February 01, 2022

CLINT MERRITT

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: RAGIN CAJUN 12 FEDERAL #001H

Enclosed are the results of analyses for samples received by the laboratory on 01/27/22 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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
 CLINT MERRITT
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2022	Sampling Date:	01/27/2022
Reported:	02/01/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 12 FEDERAL #001H	Sampling Condition:	Cool & Intact
Project Number:	225191	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: S - 1 (0-1') (H220325-01)

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	01/29/2022	ND	2.01	101	2.00	4.84	
Toluene*	<0.050	0.050	01/29/2022	ND	1.93	96.3	2.00	4.78	
Ethylbenzene*	<0.050	0.050	01/29/2022	ND	1.93	96.4	2.00	5.52	
Total Xylenes*	<0.150	0.150	01/29/2022	ND	5.85	97.4	6.00	5.23	
Total BTEX	<0.300	0.300	01/29/2022	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	11200	16.0	01/31/2022	ND	416	104	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	01/31/2022	ND	187	93.7	200	3.96	
DRO >C10-C28*	26.5	10.0	01/31/2022	ND	217	108	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	01/31/2022	ND					

Surrogate: 1-Chlorooctane 91.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.7 % 59.5-142

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
 CLINT MERRITT
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2022	Sampling Date:	01/27/2022
Reported:	02/01/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 12 FEDERAL #001H	Sampling Condition:	Cool & Intact
Project Number:	225191	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: S - 1 (1-1.5') (H220325-02)

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	01/29/2022	ND	2.01	101	2.00	4.84		
Toluene*	<0.050	0.050	01/29/2022	ND	1.93	96.3	2.00	4.78		
Ethylbenzene*	<0.050	0.050	01/29/2022	ND	1.93	96.4	2.00	5.52		
Total Xylenes*	<0.150	0.150	01/29/2022	ND	5.85	97.4	6.00	5.23		
Total BTEX	<0.300	0.300	01/29/2022	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	7860	16.0	01/31/2022	ND	416	104	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	01/31/2022	ND	187	93.7	200	3.96		
DRO >C10-C28*	<10.0	10.0	01/31/2022	ND	217	108	200	4.10		
EXT DRO >C28-C36	<10.0	10.0	01/31/2022	ND						

Surrogate: 1-Chlorooctane 96.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.3 % 59.5-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 CLINT MERRITT
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2022	Sampling Date:	01/27/2022
Reported:	02/01/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 12 FEDERAL #001H	Sampling Condition:	Cool & Intact
Project Number:	225191	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: S - 2 (0-1') (H220325-03)

BTEX 8021B		mg/kg		Analyzed By: MS/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2022	ND	2.01	101	2.00	4.84	
Toluene*	0.480	0.050	01/29/2022	ND	1.93	96.3	2.00	4.78	
Ethylbenzene*	0.808	0.050	01/29/2022	ND	1.93	96.4	2.00	5.52	
Total Xylenes*	3.83	0.150	01/29/2022	ND	5.85	97.4	6.00	5.23	
Total BTEX	5.12	0.300	01/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 154 % 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	17100	16.0	01/31/2022	ND	416	104	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*	78.8	10.0	01/31/2022	ND	187	93.7	200	3.96	
DRO >C10-C28*	2810	10.0	01/31/2022	ND	217	108	200	4.10	
EXT DRO >C28-C36	524	10.0	01/31/2022	ND					

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 111 % 59.5-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 CLINT MERRITT
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2022	Sampling Date:	01/27/2022
Reported:	02/01/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 12 FEDERAL #001H	Sampling Condition:	Cool & Intact
Project Number:	225191	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: S - 3 (0-1') (H220325-04)

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	01/29/2022	ND	2.01	101	2.00	4.84	
Toluene*	0.073	0.050	01/29/2022	ND	1.93	96.3	2.00	4.78	
Ethylbenzene*	0.238	0.050	01/29/2022	ND	1.93	96.4	2.00	5.52	
Total Xylenes*	1.26	0.150	01/29/2022	ND	5.85	97.4	6.00	5.23	
Total BTEX	1.57	0.300	01/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	15200	16.0	01/31/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	38.2	10.0	01/31/2022	ND	220	110	200	8.45		
DRO >C10-C28*	1930	10.0	01/31/2022	ND	223	112	200	3.60	QM-07	
EXT DRO >C28-C36	191	10.0	01/31/2022	ND						

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 168 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 CLINT MERRITT
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2022	Sampling Date:	01/27/2022
Reported:	02/01/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 12 FEDERAL #001H	Sampling Condition:	Cool & Intact
Project Number:	225191	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: H - 1 (0-0.5') (H220325-05)

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	01/28/2022	ND	2.07	103	2.00	4.05	
Toluene*	<0.050	0.050	01/28/2022	ND	1.99	99.7	2.00	4.23	
Ethylbenzene*	<0.050	0.050	01/28/2022	ND	1.96	97.9	2.00	3.73	
Total Xylenes*	<0.150	0.150	01/28/2022	ND	5.91	98.5	6.00	4.34	
Total BTEX	<0.300	0.300	01/28/2022	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	32.0	16.0	01/31/2022	ND	416	104	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	01/31/2022	ND	220	110	200	8.45	
DRO >C10-C28*	<10.0	10.0	01/31/2022	ND	223	112	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	01/31/2022	ND					

Surrogate: 1-Chlorooctane 70.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 75.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 CLINT MERRITT
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2022	Sampling Date:	01/27/2022
Reported:	02/01/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 12 FEDERAL #001H	Sampling Condition:	Cool & Intact
Project Number:	225191	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: H - 2 (0-0.5') (H220325-06)

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	01/28/2022	ND	2.07	103	2.00	4.05	
Toluene*	<0.050	0.050	01/28/2022	ND	1.99	99.7	2.00	4.23	
Ethylbenzene*	<0.050	0.050	01/28/2022	ND	1.96	97.9	2.00	3.73	
Total Xylenes*	<0.150	0.150	01/28/2022	ND	5.91	98.5	6.00	4.34	
Total BTEX	<0.300	0.300	01/28/2022	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	48.0	16.0	01/31/2022	ND	416	104	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	02/01/2022	ND	220	110	200	8.45	
DRO >C10-C28*	11.2	10.0	02/01/2022	ND	223	112	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	02/01/2022	ND					

Surrogate: 1-Chlorooctane 67.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 74.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 CLINT MERRITT
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2022	Sampling Date:	01/27/2022
Reported:	02/01/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 12 FEDERAL #001H	Sampling Condition:	Cool & Intact
Project Number:	225191	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: H - 3 (0-0.5') (H220325-07)

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	01/28/2022	ND	2.07	103	2.00	4.05	
Toluene*	<0.050	0.050	01/28/2022	ND	1.99	99.7	2.00	4.23	
Ethylbenzene*	<0.050	0.050	01/28/2022	ND	1.96	97.9	2.00	3.73	
Total Xylenes*	<0.150	0.150	01/28/2022	ND	5.91	98.5	6.00	4.34	
Total BTEX	<0.300	0.300	01/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	368	16.0	01/31/2022	ND	416	104	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	01/31/2022	ND	220	110	200	8.45	
DRO >C10-C28*	31.5	10.0	01/31/2022	ND	223	112	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	01/31/2022	ND					

Surrogate: 1-Chlorooctane 73.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 CLINT MERRITT
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2022	Sampling Date:	01/27/2022
Reported:	02/01/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 12 FEDERAL #001H	Sampling Condition:	Cool & Intact
Project Number:	225191	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: H - 4 (0-0.5') (H220325-08)

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	01/28/2022	ND	2.07	103	2.00	4.05		
Toluene*	<0.050	0.050	01/28/2022	ND	1.99	99.7	2.00	4.23		
Ethylbenzene*	<0.050	0.050	01/28/2022	ND	1.96	97.9	2.00	3.73		
Total Xylenes*	<0.150	0.150	01/28/2022	ND	5.91	98.5	6.00	4.34		
Total BTEX	<0.300	0.300	01/28/2022	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	2800	16.0	01/31/2022	ND	416	104	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	01/31/2022	ND	220	110	200	8.45		
DRO >C10-C28*	<10.0	10.0	01/31/2022	ND	223	112	200	3.60		
EXT DRO >C28-C36	<10.0	10.0	01/31/2022	ND						

Surrogate: 1-Chlorooctane 71.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 77.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD.
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



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

March 31, 2022

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: RAGIN CAJUN 12 FEDERAL #001H

Enclosed are the results of analyses for samples received by the laboratory on 03/29/22 14:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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:	03/29/2022	Sampling Date:	03/29/2022
Reported:	03/31/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 12 FEDERAL #001H	Sampling Condition:	Cool & Intact
Project Number:	225191	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

Sample ID: SW - 1 (H221245-01)

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	03/31/2022	ND	2.00	99.8	2.00	11.3	
Toluene*	<0.050	0.050	03/31/2022	ND	1.99	99.3	2.00	10.8	
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	1.97	98.4	2.00	11.0	
Total Xylenes*	<0.150	0.150	03/31/2022	ND	6.08	101	6.00	10.8	
Total BTEX	<0.300	0.300	03/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/31/2022	ND	416	104	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	03/30/2022	ND	199	99.5	200	5.45	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	186	93.0	200	6.82	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

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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:	03/29/2022	Sampling Date:	03/29/2022
Reported:	03/31/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 12 FEDERAL #001H	Sampling Condition:	Cool & Intact
Project Number:	225191	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

Sample ID: SW - 2 (H221245-02)

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	03/31/2022	ND	2.00	99.8	2.00	11.3		
Toluene*	<0.050	0.050	03/31/2022	ND	1.99	99.3	2.00	10.8		
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	1.97	98.4	2.00	11.0		
Total Xylenes*	<0.150	0.150	03/31/2022	ND	6.08	101	6.00	10.8		
Total BTEX	<0.300	0.300	03/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	03/31/2022	ND	416	104	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	03/30/2022	ND	199	99.5	200	5.45		
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	186	93.0	200	6.82		
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND						

Surrogate: 1-Chlorooctane 98.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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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:	03/29/2022	Sampling Date:	03/29/2022
Reported:	03/31/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 12 FEDERAL #001H	Sampling Condition:	Cool & Intact
Project Number:	225191	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

Sample ID: SW - 3 (H221245-03)

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	03/31/2022	ND	2.00	99.8	2.00	11.3	
Toluene*	<0.050	0.050	03/31/2022	ND	1.99	99.3	2.00	10.8	
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	1.97	98.4	2.00	11.0	
Total Xylenes*	<0.150	0.150	03/31/2022	ND	6.08	101	6.00	10.8	
Total BTEX	<0.300	0.300	03/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	32.0	16.0	03/31/2022	ND	416	104	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	03/30/2022	ND	199	99.5	200	5.45	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	186	93.0	200	6.82	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 99.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

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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:	03/29/2022	Sampling Date:	03/29/2022
Reported:	03/31/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 12 FEDERAL #001H	Sampling Condition:	Cool & Intact
Project Number:	225191	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

Sample ID: SW - 4 (H221245-04)

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	03/31/2022	ND	2.00	99.8	2.00	11.3	
Toluene*	<0.050	0.050	03/31/2022	ND	1.99	99.3	2.00	10.8	
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	1.97	98.4	2.00	11.0	
Total Xylenes*	<0.150	0.150	03/31/2022	ND	6.08	101	6.00	10.8	
Total BTEX	<0.300	0.300	03/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	03/31/2022	ND	416	104	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	03/30/2022	ND	199	99.5	200	5.45	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	186	93.0	200	6.82	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 91.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.1 % 59.5-142

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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:	03/29/2022	Sampling Date:	03/29/2022
Reported:	03/31/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 12 FEDERAL #001H	Sampling Condition:	Cool & Intact
Project Number:	225191	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

Sample ID: SW - 5 (H221245-05)

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	03/31/2022	ND	2.00	99.8	2.00	11.3	
Toluene*	<0.050	0.050	03/31/2022	ND	1.99	99.3	2.00	10.8	
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	1.97	98.4	2.00	11.0	
Total Xylenes*	<0.150	0.150	03/31/2022	ND	6.08	101	6.00	10.8	
Total BTEX	<0.300	0.300	03/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	03/31/2022	ND	416	104	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	03/30/2022	ND	199	99.5	200	5.45	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	186	93.0	200	6.82	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 88.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.3 % 59.5-142

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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:	03/29/2022	Sampling Date:	03/29/2022
Reported:	03/31/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 12 FEDERAL #001H	Sampling Condition:	Cool & Intact
Project Number:	225191	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

Sample ID: SW - 6 (H221245-06)

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	03/31/2022	ND	2.00	99.8	2.00	11.3	
Toluene*	<0.050	0.050	03/31/2022	ND	1.99	99.3	2.00	10.8	
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	1.97	98.4	2.00	11.0	
Total Xylenes*	<0.150	0.150	03/31/2022	ND	6.08	101	6.00	10.8	
Total BTEX	<0.300	0.300	03/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	03/31/2022	ND	416	104	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	03/30/2022	ND	199	99.5	200	5.45	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	186	93.0	200	6.82	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 83.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.6 % 59.5-142

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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:	03/29/2022	Sampling Date:	03/29/2022
Reported:	03/31/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 12 FEDERAL #001H	Sampling Condition:	Cool & Intact
Project Number:	225191	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

Sample ID: SW - 7 (H221245-07)

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	03/30/2022	ND	2.15	107	2.00	2.54	
Toluene*	<0.050	0.050	03/30/2022	ND	2.25	112	2.00	1.69	
Ethylbenzene*	<0.050	0.050	03/30/2022	ND	2.26	113	2.00	0.743	
Total Xylenes*	<0.150	0.150	03/30/2022	ND	6.74	112	6.00	1.00	
Total BTEX	<0.300	0.300	03/30/2022	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	32.0	16.0	03/31/2022	ND	416	104	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	03/30/2022	ND	199	99.5	200	5.45	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	186	93.0	200	6.82	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 91.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.1 % 59.5-142

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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:	03/29/2022	Sampling Date:	03/29/2022
Reported:	03/31/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 12 FEDERAL #001H	Sampling Condition:	Cool & Intact
Project Number:	225191	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

Sample ID: SW - 8 (H221245-08)

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	03/30/2022	ND	2.15	107	2.00	2.54		
Toluene*	<0.050	0.050	03/30/2022	ND	2.25	112	2.00	1.69		
Ethylbenzene*	<0.050	0.050	03/30/2022	ND	2.26	113	2.00	0.743		
Total Xylenes*	<0.150	0.150	03/30/2022	ND	6.74	112	6.00	1.00		
Total BTEX	<0.300	0.300	03/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	32.0	16.0	03/31/2022	ND	416	104	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	03/30/2022	ND	199	99.5	200	5.45		
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	186	93.0	200	6.82		
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND						

Surrogate: 1-Chlorooctane 91.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.4 % 59.5-142

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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:	03/29/2022	Sampling Date:	03/29/2022
Reported:	03/31/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 12 FEDERAL #001H	Sampling Condition:	Cool & Intact
Project Number:	225191	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

Sample ID: SW - 9 (H221245-09)

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	03/30/2022	ND	2.15	107	2.00	2.54	
Toluene*	<0.050	0.050	03/30/2022	ND	2.25	112	2.00	1.69	
Ethylbenzene*	<0.050	0.050	03/30/2022	ND	2.26	113	2.00	0.743	
Total Xylenes*	<0.150	0.150	03/30/2022	ND	6.74	112	6.00	1.00	
Total BTEX	<0.300	0.300	03/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	03/31/2022	ND	416	104	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	03/30/2022	ND	199	99.5	200	5.45	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	186	93.0	200	6.82	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 99.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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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:	03/29/2022	Sampling Date:	03/29/2022
Reported:	03/31/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 12 FEDERAL #001H	Sampling Condition:	Cool & Intact
Project Number:	225191	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

Sample ID: CS - 1 (3') (H221245-10)

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	03/30/2022	ND	2.15	107	2.00	2.54	
Toluene*	<0.050	0.050	03/30/2022	ND	2.25	112	2.00	1.69	
Ethylbenzene*	<0.050	0.050	03/30/2022	ND	2.26	113	2.00	0.743	
Total Xylenes*	<0.150	0.150	03/30/2022	ND	6.74	112	6.00	1.00	
Total BTEX	<0.300	0.300	03/30/2022	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	1230	16.0	03/31/2022	ND	416	104	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	03/30/2022	ND	199	99.5	200	5.45	
DRO >C10-C28*	112	10.0	03/30/2022	ND	186	93.0	200	6.82	
EXT DRO >C28-C36	32.1	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 94.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

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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:	03/29/2022	Sampling Date:	03/29/2022
Reported:	03/31/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 12 FEDERAL #001H	Sampling Condition:	Cool & Intact
Project Number:	225191	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

Sample ID: CS - 2 (3') (H221245-11)

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	03/30/2022	ND	2.15	107	2.00	2.54	
Toluene*	<0.050	0.050	03/30/2022	ND	2.25	112	2.00	1.69	
Ethylbenzene*	<0.050	0.050	03/30/2022	ND	2.26	113	2.00	0.743	
Total Xylenes*	<0.150	0.150	03/30/2022	ND	6.74	112	6.00	1.00	
Total BTEX	<0.300	0.300	03/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	144	16.0	03/31/2022	ND	416	104	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	03/30/2022	ND	199	99.5	200	5.45	
DRO >C10-C28*	10.6	10.0	03/30/2022	ND	186	93.0	200	6.82	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 83.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.2 % 59.5-142

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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:	03/29/2022	Sampling Date:	03/29/2022
Reported:	03/31/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 12 FEDERAL #001H	Sampling Condition:	Cool & Intact
Project Number:	225191	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

Sample ID: CS - 3 (3') (H221245-12)

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	03/30/2022	ND	2.15	107	2.00	2.54	
Toluene*	<0.050	0.050	03/30/2022	ND	2.25	112	2.00	1.69	
Ethylbenzene*	<0.050	0.050	03/30/2022	ND	2.26	113	2.00	0.743	
Total Xylenes*	<0.150	0.150	03/30/2022	ND	6.74	112	6.00	1.00	
Total BTEX	<0.300	0.300	03/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	03/31/2022	ND	400	100	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	03/30/2022	ND	199	99.5	200	5.45	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	186	93.0	200	6.82	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 81.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.3 % 59.5-142

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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:	03/29/2022	Sampling Date:	03/29/2022
Reported:	03/31/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 12 FEDERAL #001H	Sampling Condition:	Cool & Intact
Project Number:	225191	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

Sample ID: CS - 4 (3') (H221245-13)

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	03/31/2022	ND	2.15	107	2.00	2.54	
Toluene*	<0.050	0.050	03/31/2022	ND	2.25	112	2.00	1.69	
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	2.26	113	2.00	0.743	
Total Xylenes*	<0.150	0.150	03/31/2022	ND	6.74	112	6.00	1.00	
Total BTEX	<0.300	0.300	03/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	32.0	16.0	03/31/2022	ND	400	100	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	03/30/2022	ND	199	99.5	200	5.45	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	186	93.0	200	6.82	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 96.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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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:	03/29/2022	Sampling Date:	03/29/2022
Reported:	03/31/2022	Sampling Type:	Soil
Project Name:	RAGIN CAJUN 12 FEDERAL #001H	Sampling Condition:	Cool & Intact
Project Number:	225191	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO NM		

Sample ID: CS - 5 (3') (H221245-14)

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	03/31/2022	ND	2.15	107	2.00	2.54		
Toluene*	<0.050	0.050	03/31/2022	ND	2.25	112	2.00	1.69		
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	2.26	113	2.00	0.743		
Total Xylenes*	<0.150	0.150	03/31/2022	ND	6.74	112	6.00	1.00		
Total BTEX	<0.300	0.300	03/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	03/31/2022	ND	400	100	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	03/31/2022	ND	199	99.5	200	5.45		
DRO >C10-C28*	<10.0	10.0	03/31/2022	ND	186	93.0	200	6.82		
EXT DRO >C28-C36	<10.0	10.0	03/31/2022	ND						

Surrogate: 1-Chlorooctane 85.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.6 % 59.5-142

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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: H2A1215-1-1

Project Manager:	Ethan Sassums	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

Page 1 of

Work Order Comments

Program: UST/PST PRP Brownfields RRC upertund

State of Project:

Reporting Level: Level II Level III P-ST/UST FRRP Level IV

Deliverables: EDD ADAPT Other:

Project Name:	Project Number:	Project Location:	Sampler's Name:	PO #	Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes
					<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush														
Ragin Cajun 12 Federal #001H	225191	Lea Co. NM	Kevin Valdez	20997475	<input checked="" type="checkbox"/>	<input type="checkbox"/>		TAT starts the day received by the lab, if received by 4:30pm												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
SAMPLE RECEIPT					Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:													DI Water: H ₂ O MeOH: Me HNO ₃ : HN NaOH: Na
Received Inact:					Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	#113													
Cooler Custody Seals:					Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	-0.5°C													
Sample Custody Seals:					Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Corrected Temperature:	1.10°C													
Total Containers:					5															
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters												Sample Comments
C-1 (3')		3/29/2022	-	X		Comp	1	BTEX 8021B												
C-2 (3')		3/29/2022	-	X		Comp	1	TPH 8015M (GRO + DRO + MRO)												
C-3 (3')		3/29/2022	-	X		Comp	1	Chloride 4500												
C-4 (3')		3/29/2022	-	X		Comp	1													
C-5 (3')		3/29/2022	-	X		Comp	1													

Additional Comments:

Note: 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>	3-29-22 1448			



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

April 18, 2022

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

RE: RAGIN CAJUN 12 FEDERAL #001H

Enclosed are the results of analyses for samples received by the laboratory on 04/04/22 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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



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Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: RAGIN CAJUN 12 FEDERAL #001H Project Number: 225191 Project Manager: ETHAN SESSUMS Fax To:	Reported: 18-Apr-22 16:19
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS - 1	H221330-01	Soil	04-Apr-22 00:00	04-Apr-22 14:10
SW - 10	H221330-02	Soil	04-Apr-22 00:00	04-Apr-22 14:10
SW - 11	H221330-03	Soil	04-Apr-22 00:00	04-Apr-22 14:10
SW - 12	H221330-04	Soil	04-Apr-22 00:00	04-Apr-22 14:10
SW - 13	H221330-05	Soil	04-Apr-22 00:00	04-Apr-22 14:10

04/18/22 - Client changed the sample IDs on samples -02 through -05. This is the revised report and will replace the one sent on 04/07/22.

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Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: RAGIN CAJUN 12 FEDERAL #001H Project Number: 225191 Project Manager: ETHAN SESSUMS Fax To:	Reported: 18-Apr-22 16:19
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**CS - 1
H221330-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Inorganic Compounds

Chloride	16.0		16.0	mg/kg	4	2040517	AC	05-Apr-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2040507	JH	05-Apr-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2040507	JH	05-Apr-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2040507	JH	05-Apr-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2040507	JH	05-Apr-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2040507	JH	05-Apr-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			96.6 %		69.9-140	2040507	JH	05-Apr-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2040510	MS	05-Apr-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2040510	MS	05-Apr-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2040510	MS	05-Apr-22	8015B	
Surrogate: 1-Chlorooctane			73.6 %		66.9-136	2040510	MS	05-Apr-22	8015B	
Surrogate: 1-Chlorooctadecane			75.3 %		59.5-142	2040510	MS	05-Apr-22	8015B	

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Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: RAGIN CAJUN 12 FEDERAL #001H Project Number: 225191 Project Manager: ETHAN SESSUMS Fax To:	Reported: 18-Apr-22 16:19
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SW - 10

H221330-02 (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	2040517	AC	05-Apr-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2040507	JH	05-Apr-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2040507	JH	05-Apr-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2040507	JH	05-Apr-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2040507	JH	05-Apr-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2040507	JH	05-Apr-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.5 %		69.9-140	2040507	JH	05-Apr-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2040510	MS	05-Apr-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2040510	MS	05-Apr-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2040510	MS	05-Apr-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			73.1 %		66.9-136	2040510	MS	05-Apr-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			73.6 %		59.5-142	2040510	MS	05-Apr-22	8015B	
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Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: RAGIN CAJUN 12 FEDERAL #001H Project Number: 225191 Project Manager: ETHAN SESSUMS Fax To:	Reported: 18-Apr-22 16:19
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SW - 11

H221330-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Inorganic Compounds

Chloride	64.0		16.0	mg/kg	4	2040517	AC	05-Apr-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2040507	JH	05-Apr-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2040507	JH	05-Apr-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2040507	JH	05-Apr-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2040507	JH	05-Apr-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2040507	JH	05-Apr-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.8 %		69.9-140	2040507	JH	05-Apr-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2040510	MS	05-Apr-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2040510	MS	05-Apr-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2040510	MS	05-Apr-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			68.9 %		66.9-136	2040510	MS	05-Apr-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			69.7 %		59.5-142	2040510	MS	05-Apr-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 12 FEDERAL #001H Project Number: 225191 Project Manager: ETHAN SESSUMS Fax To:	Reported: 18-Apr-22 16:19
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SW - 12

H221330-04 (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	2040518	AC	05-Apr-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2040507	JH	05-Apr-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2040507	JH	05-Apr-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2040507	JH	05-Apr-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2040507	JH	05-Apr-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2040507	JH	05-Apr-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.8 %		69.9-140	2040507	JH	05-Apr-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2040510	MS	05-Apr-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2040510	MS	05-Apr-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2040510	MS	05-Apr-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			69.4 %		66.9-136	2040510	MS	05-Apr-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			70.4 %		59.5-142	2040510	MS	05-Apr-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: RAGIN CAJUN 12 FEDERAL #001H Project Number: 225191 Project Manager: ETHAN SESSUMS Fax To:	Reported: 18-Apr-22 16:19
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SW - 13

H221330-05 (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	2040518	AC	05-Apr-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2040507	JH	05-Apr-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2040507	JH	05-Apr-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2040507	JH	05-Apr-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2040507	JH	05-Apr-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2040507	JH	05-Apr-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.0 %		69.9-140	2040507	JH	05-Apr-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2040510	MS	05-Apr-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2040510	MS	05-Apr-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2040510	MS	05-Apr-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			74.4 %		66.9-136	2040510	MS	05-Apr-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			75.1 %		59.5-142	2040510	MS	05-Apr-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 12 FEDERAL #001H Project Number: 225191 Project Manager: ETHAN SESSUMS Fax To:	Reported: 18-Apr-22 16:19
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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
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Batch 2040517 - 1:4 DI Water

Blank (2040517-BLK1) Prepared & Analyzed: 05-Apr-22

Chloride	ND	16.0	mg/kg							
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LCS (2040517-BS1) Prepared & Analyzed: 05-Apr-22

Chloride	400	16.0	mg/kg	400		100	80-120			
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LCS Dup (2040517-BSD1) Prepared & Analyzed: 05-Apr-22

Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	
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Batch 2040518 - 1:4 DI Water

Blank (2040518-BLK1) Prepared & Analyzed: 05-Apr-22

Chloride	ND	16.0	mg/kg							
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LCS (2040518-BS1) Prepared & Analyzed: 05-Apr-22

Chloride	416	16.0	mg/kg	400		104	80-120			
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LCS Dup (2040518-BSD1) Prepared & Analyzed: 05-Apr-22

Chloride	416	16.0	mg/kg	400		104	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 12 FEDERAL #001H
Project Number: 225191
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
18-Apr-22 16:19

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 2040507 - Volatiles**Blank (2040507-BLK1)**

Prepared & Analyzed: 05-Apr-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)	ND		mg/kg	0.0500		98.4	69.9-140			

LCS (2040507-BS1)

Prepared & Analyzed: 05-Apr-22

Benzene	2.05	0.050	mg/kg	2.00		102	83.4-122			
Toluene	1.98	0.050	mg/kg	2.00		98.9	84.2-126			
Ethylbenzene	1.96	0.050	mg/kg	2.00		97.8	84.2-121			
m,p-Xylene	3.83	0.100	mg/kg	4.00		95.8	89.9-126			
o-Xylene	1.90	0.050	mg/kg	2.00		95.1	84.3-123			
Total Xylenes	5.73	0.150	mg/kg	6.00		95.6	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0481		mg/kg	0.0500		96.1	69.9-140			

LCS Dup (2040507-BSD1)

Prepared & Analyzed: 05-Apr-22

Benzene	2.12	0.050	mg/kg	2.00		106	83.4-122	3.79	12.6	
Toluene	2.16	0.050	mg/kg	2.00		108	84.2-126	8.63	13.3	
Ethylbenzene	2.08	0.050	mg/kg	2.00		104	84.2-121	6.19	13.9	
m,p-Xylene	4.10	0.100	mg/kg	4.00		102	89.9-126	6.74	13.6	
o-Xylene	2.02	0.050	mg/kg	2.00		101	84.3-123	6.04	14.1	
Total Xylenes	6.12	0.150	mg/kg	6.00		102	89.1-124	6.51	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0498		mg/kg	0.0500		99.7	69.9-140			

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Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: RAGIN CAJUN 12 FEDERAL #001H Project Number: 225191 Project Manager: ETHAN SESSUMS Fax To:	Reported: 18-Apr-22 16:19
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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 2040510 - General Prep - Organics

Blank (2040510-BLK1)			Prepared & Analyzed: 05-Apr-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	49.8		mg/kg	50.0		99.6	66.9-136			
Surrogate: 1-Chlorooctadecane	54.1		mg/kg	50.0		108	59.5-142			

LCS (2040510-BS1)			Prepared & Analyzed: 05-Apr-22							
GRO C6-C10	189	10.0	mg/kg	200		94.4	78.5-128			
DRO >C10-C28	179	10.0	mg/kg	200		89.7	75.8-135			
Total TPH C6-C28	368	10.0	mg/kg	400		92.1	81.5-127			
Surrogate: 1-Chlorooctane	56.3		mg/kg	50.0		113	66.9-136			
Surrogate: 1-Chlorooctadecane	58.4		mg/kg	50.0		117	59.5-142			

LCS Dup (2040510-BSD1)			Prepared & Analyzed: 05-Apr-22							
GRO C6-C10	179	10.0	mg/kg	200		89.3	78.5-128	5.51	21.4	
DRO >C10-C28	164	10.0	mg/kg	200		81.8	75.8-135	9.22	17.9	
Total TPH C6-C28	342	10.0	mg/kg	400		85.6	81.5-127	7.30	17.6	
Surrogate: 1-Chlorooctane	55.7		mg/kg	50.0		111	66.9-136			
Surrogate: 1-Chlorooctadecane	61.3		mg/kg	50.0		123	59.5-142			

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

CONDITIONS

Action 219467

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 219467
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	8/11/2023