



August 12, 2020

Vertex Project #: 20E-00141-040

Spill Closure Report: Fighting Okra 18 Fed Com 1H
Unit E, Section 18, Township 26 South, Range 34 East
County: Lea
API: 30-025-40382
Tracking Number: NRM2005653696

Prepared For: Devon Energy Production Company
6488 Seven Rivers Highway
Artesia, New Mexico 88210

New Mexico Oil Conservation Division – District 1 – Hobbs

1625 North French Drive
Hobbs, New Mexico 88240

Devon Energy Production Company (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct a spill assessment and remediation for a produced water and oil release that occurred at Fighting Okra 18 Fed Com 1H, API 30-025-40382 (hereafter referred to as “Fighting Okra”). Devon provided immediate notification of the release to New Mexico Oil Conservation Division (NM OCD) District 1 and the Bureau of Land Management (BLM), who owns the property, on February 24, 2020, followed by the initial C-141 Release Notification on February 25, 2020 (Attachment 1). The NM OCD tracking number assigned to this incident is NRM2005653696.

This letter provides a description of the spill assessment and remediation activities, and demonstrates that closure criteria established in 19.15.29.12 *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) have been met and all applicable regulations are being followed. This document is intended to serve as the final report to obtain approval from NM OCD and the BLM for closure of this release.

Incident Description

On February 24, 2020, a release occurred at Devon’s Fighting Okra site when a hole occurred in the flowline from the wellhead to the Fighting Okra 18 Central Tank Battery (CTB) 2. This incident resulted in the release of approximately 21 barrels (bbls) of produced water and 10 bbls of crude oil onto the surface of the wellpad. Upon discovery of the release, a hydrovac truck was dispatched to the site to recover free liquids. Approximately 8 bbls of produced water and 8 bbls of oil were recovered and removed for disposal off-site. No oil or produced water were released off-lease or into undisturbed areas or waterways.

Site Characterization

The release at Fighting Okra occurred on federally-owned land, N 32.043629, W 103.516126, approximately 20 miles west-southwest of Jal, New Mexico. The legal description for the site is Unit E, Section 18, Township 26 South, Range 34 East, Lea County, New Mexico. This location is within the Permian Basin in southeast New Mexico and has historically been used for oil and gas exploration and production, and rangeland. An aerial photograph and site schematic are

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included in Attachment 2.

Fighting Okra is typical of oil and gas exploration and production sites in the western portion of the Permian Basin, and is currently used for oil and gas production, and storage. The following sections specifically describe the area around the western portion of the constructed wellpad where the storage tanks are located.

The surrounding landscape has historically been associated with upland plains, dunes and fan piedmonts. The climate is semi-arid, with average annual precipitation ranging between 8 and 13 inches. The plant community has historically been dominated by black grama, dropseed grass species and bluestems, with scattered shinnery oak and sand sage. Litter and, to a lesser extent, bare ground comprise a significant portion of the ground cover (United States Department of Agriculture, Natural Resources Conservation Service, 2020). Limited to no vegetation is allowed to grow on the compacted wellpad.

The Geological Map of New Mexico indicates the surface geology at Fighting Okra is comprised primarily of Qep – Eolian and piedmont deposits (Holocene to middle Pleistocene) characterized by interlaid eolian sand and piedmont deposits (New Mexico Bureau of Geology and Mineral Resources, 2020). The National Resources Conservation Service Web Soil Survey characterizes the soil at the site as Pyote and Maljamar fine sands, which are associated with sandy eolian deposits derived from sedimentary rock. This type of soil, typically found at elevations of 3,000 to 3,900 feet above sea level, tends to be well-drained with negligible runoff and low available moisture in the soil profile (United States Department of Agriculture, Natural Resources Conservation Service, 2020). There is low potential for karst geology to be present near Fighting Okra (United States Department of the Interior, Bureau of Land Management, 2020).

There is no surface water located at Fighting Okra. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is a draw located approximately 0.91 miles northeast of the site (New Mexico Office of the State Engineer, Interstate Stream Commission, 2020). At Fighting Okra, there are no continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes, or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

The nearest groundwater well is a New Mexico Office of the State Engineer well from 1949, located 0.85 miles north of the site. Data for that well shows a depth to groundwater at 200 feet below ground surface (bgs; New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System, 2020). Documentation pertaining to site characterization and depth to groundwater determination is included in Attachment 3.

Closure Criteria Determination

Using site characterization information, a closure criteria determination worksheet (Attachment 3) was completed to determine if the release is subject to any of the special case scenarios outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

Based on data included in the closure criteria determination worksheet, the release at Fighting Okra is not subject to the requirements of Paragraph (4) of Subsection C of 19.15.29.12 NMAC. As the nearest groundwater well is farther than a ½-mile from the release site, the depth to groundwater at Fighting Okra cannot be accurately determined and the closure criteria for the site are determined to be associated with the following constituent concentration limits.

Table 1. Closure Criteria for Soils Impacted by a Release		
Depth to Groundwater	Constituent	Limit
< 50 feet	Chloride	600 mg/kg
	TPH ¹ (GRO + DRO + MRO)	100 mg/kg
	BTEX ²	50 mg/kg
	Benzene	10 mg/kg

¹Total petroleum hydrocarbons (TPH) = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO)

²Benzene, toluene, ethylbenzene and xylenes (BTEX)

Remedial Actions

An initial spill inspection, completed by Vertex on March 18, 2020, identified and mapped the boundaries of the release area using field screening methods, including a photoionization detector (PID) to determine the presence of volatile organics, the Petroflag system to estimate the level of hydrocarbons and an electroconductivity (EC) meter to approximate chloride levels in the soil. Using initial soil sampling laboratory data as presented in Table 2 (Attachment 4), the release area was delineated as presented on Figure 1 (Attachment 2). The impacted area was determined to be approximately 167 feet long and 72 feet wide; the total affected area was determined to be approximately 8,538 square feet. The Daily Field Report (DFR) associated with the initial spill inspection and site characterization is included in Attachment 5.

On June 8, 2020, Vertex provided 48-hour notification of confirmatory sampling to NM OCD and the BLM, as required by Subparagraph (a) of Paragraph (1) of Subsection D 19.15.29.12 NMAC (Attachment 6). Remediation occurred between June 9 and 10, 2020, with a Vertex representative on-site to guide excavation and determine the final horizontal and vertical extents of the excavation area as presented on Figure 2 (Attachment 2). Contaminated soils were removed to an average depth of approximately 0.5 feet bgs across the release footprint. On June 11, 2020, Vertex was on-site to conduct confirmatory sampling. A total of 29 five-point composite samples was collected from the base and side walls of the excavation area. Each composite sample was representative of no more than 200 square feet per the alternate sampling method outlined in Subparagraph (c) of Paragraph (1) of Subsection D 19.15.29.12 NMAC, which does not require prior NM OCD approval. The confirmatory samples were placed into laboratory provided containers, preserved on ice and submitted to a National Environmental Laboratory Accreditation Program-approved laboratory for chemical analysis.

Laboratory analyses included Method 300.0 for chlorides, Method 8021B for volatile organics, including BTEX, and EPA Method 8015 for TPH, including MRO, DRO and GRO. Confirmatory sampling analytical data are summarized in Table 3 (Attachment 4). Laboratory data reports and chain of custody forms are included in Attachment 7.

A GeoExplorer 7000 Series Trimble global positioning system (GPS) unit, or equivalent, was used to map the approximate center of each of the five-point composite samples. The confirmatory sample locations are presented on Figure 2 (Attachment 2). Relevant equipment and prominent features/reference points at the site are mapped as well.

Closure Request

Vertex recommends no additional remediation action to address the release at Fighting Okra. Laboratory analyses of the confirmatory samples showed constituent of concern concentration levels below NM OCD Closure Criteria for areas

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Devon Energy Production Company
Fighting Okra 18 Fed Com 1H

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where depth to groundwater is undetermined, or less than 50 feet bgs, as shown in Table 1. There are no anticipated risks to human, ecological or hydrological receptors associated with the release site.

The excavation was backfilled with non-waste-containing, uncontaminated earthen material, sourced locally, and placed to meet the site's existing grade to prevent ponding of water and erosion.

Vertex requests that this incident (NRM2005653696) be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. Devon certifies that all information in this report and the attachments is correct, and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NM OCD requirements to obtain closure on the February 24, 2020, release at Fighting Okra.

Should you have any questions or concerns, please do not hesitate to contact the undersigned at 505.506.0040 or ngordon@vertex.ca.

Sincerely,



Natalie Gordon
PROJECT MANAGER

Attachments

- Attachment 1. NM OCD C 141 Report
- Attachment 2. Figures
- Attachment 3. Closure Criteria for Soils Impacted by a Release Determination Documentation
- Attachment 4. Characterization and Confirmatory Sampling Laboratory Results Data Tables
- Attachment 5. Daily Field Report(s) with Photographs
- Attachment 6. Required 48-hr Notification of Confirmation Sampling to Regulatory Agencies
- Attachment 7. Laboratory Data Reports/Chain of Custody Forms

References

- New Mexico Bureau of Geology and Mineral Resources. (2020). *Interactive Geologic Map*. Retrieved from <http://geoinfo.nmt.edu>.
- New Mexico Office of the State Engineer, Interstate Stream Commission. (2020). *OSE POD Locations*. Retrieved from https://gis.ose.state.nm.us/gisapps/ose_pod_locations/.
- New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System. (2020). *Water Column/Average Depth to Water Report*. Retrieved from <http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html>.
- New Mexico Oil Conservation Division. (2018). *New Mexico Administrative Code – Natural Resources and Wildlife Oil and Gas Releases*. Santa Fe, New Mexico.
- United States Department of Agriculture, Natural Resources Conservation Service. (2020). *Web Soil Survey*. Retrieved from <https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>.
- United States Department of the Interior, Bureau of Land Management. (2020). *New Mexico Cave/Karsts*. Retrieved from <https://www.blm.gov/programs/recreation/recreation-programs/caves/new-mexico>.

Limitations

This report has been prepared for the sole benefit of Devon Energy Production Company (Devon). This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and Devon. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

ATTACHMENT 1

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	NRM2005653696
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

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

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

Cause of Release

State of New Mexico
Oil Conservation Division

Incident ID	NRM2005653696
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ 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

☐ The source of the release has been stopped.	
☐ The impacted area has been secured to protect human health and the environment.	
☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
☐ 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>02/25/2020</u>

Inputs in blue, Outputs in red

Contaminated Soil measurement

Area (square feet)	Depth(inches)
<u>4800</u>	<u>0.250</u>
Cubic Feet of Soil Impacted	<u>100.000</u>
Barrels of Soil Impacted	<u>17.83</u>
Soil Type	Clay
Barrels of Oil Assuming 100% Saturation	<u>1.78</u>
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	1.78

Free Standing Fluid Only

Area (square feet)	Depth(inches)
<u>4800</u>	<u>0.420</u>
Standing fluid	<u>29.947</u>
<u>Total fluids spilled</u>	<u>31.729</u>

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>< 50</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ 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)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ 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?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☒ Yes ☐ 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: Tom Bynum Title: EHS Consultant

Signature: *Tom Bynum* Date: 8/14/2020

email: tom.bynum@dvn.com Telephone: 575-748-3371

OCD Only

Received by: _____ Date: _____

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District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Tom Bynum Title: EHS Consultant
Signature: Tom Bynum Date: 8/14/2020
email: tom.bynum@dvn.com Telephone: 575-748-3371

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

ATTACHMENT 2



- ◆ Borehole
- Infrastructure (Existing)
- Surface Sample
- Spill Area (~8,538 sq ft)



0 25 50 Feet
Map Center:
Lat/Long: 32.044222, -103.516398

NAD 1983 UTM Zone 13N
Date: Mar 19/20



Initial Characterization and Site Schematic Fighting Okra 18 Fed Com 1H

FIGURE:

1



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Imagery from Google, 2019.

Document Path: G:\Projects\US PROJECTS\Devon Energy Corporation\20E-00141040 - Fighting Okra 18 Fed Com 1H\Fig 3 Confirmation Schematic.mxd



- Base Sample (Excavated)
- ▲ Wall Sample (Excavated)
- Excavation Area (~5,182 sq ft)



0 10 20 40 Feet
Map Center:
Lat/Long: 32.044072, -103.516290

NAD 1983 UTM Zone 13N
Date: Jun 16/20



Confirmatory Sampling Locations Fighting Okra 18 Fed Com 1H

FIGURE:

2



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Imagery from Google, 2019.

ATTACHMENT 3

Closure Criteria Determination Worksheet			
Site Name: Fighting Okra 18 Fed Com 1H			
Spill Coordinates:		X: 640075.69	Y: 3546219.69
Site Specific Conditions		Value	Unit
1	Depth to Groundwater	159	feet
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	12,532	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	4,796	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	8,898	feet
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or	12,877	feet
	ii) Within 1000 feet of any fresh water well or spring		feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	3,987	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
9	Within an unstable area (Karst Map)		Critical High Medium Low
10	Within a 100-year Floodplain	No	year
NMAC 19.15.29.12 E (Table 1) Closure Criteria		>100'	<50' 51-100' >100'

Fighting Okra 18 Fed 1

USGS Well 320419103302201

Distance to Well: 2.39 miles

DTGW 360 ft

Legend

● Feature 1

📌 Fighting Okra 18 Fed 1

320419103302201

320419103302202

📌 Fighting Okra 18 Fed 1



New Mexico Office of the State Engineer

Wells with Well Log Information

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet)

POD Number	POD Sub-Code	basin	County	Source	q 64	q 16	q 4	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number
C 03441 POD1	C	LE	Shallow	4	1	2	06	26S	34E	640971	3550039		3925	05/03/2010	05/03/2010	05/17/2010	250		EADES, ALAN	1044
C 03442 POD1	C	LE	Shallow	4	1	2	06	26S	34E	641056	3550028		3935	05/03/2010	05/03/2010	05/17/2010	251		EADES, ALAN	1044
C 02270	CUB	LE	Shallow	1	1	2	27	26S	33E	636063	3543722		4717	08/28/1992	12/31/1910	10/28/1992	150	125	UNKNOWN	208
C 03577 POD1	CUB	LE	Shallow	3	3	3	22	26S	33E	636010	3543771		4736	11/19/2012	11/20/2012	12/11/2012	750	110	SIRMAN, JOHN (LD)	1654
C 03596 POD1	C	LE	Shallow	3	3	4	22	26S	33E	636017	3543756		4738	07/21/2010	07/21/2010	11/08/2012	225		DUBOSE DRILLING INC	

Record Count: 5

UTM NAD83 Radius Search (in meters):

Easting (X): 640065.19

Northing (Y): 3546219.54

Radius: 5000

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.



National Water Information System: Web Interface

USGS Water Resources

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Data Category:	Geographic Area:	
Site Information ▼	United States ▼	GO

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- [Full News](#) 

USGS 320419103302201 26S.34E.06.21414Available data for this site SUMMARY OF ALL AVAILABLE DATA ▼ GO**Well Site**

DESCRIPTION:

Latitude 32°04'37.9", Longitude 103°30'20.5" NAD83
Lea County, New Mexico , Hydrologic Unit 13070007
Well depth: 360 feet
Land surface altitude: 3,319.00 feet above NGVD29.
Well completed in "Chinle Formation" (231CHNL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1954-07-23	2013-01-16	6
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to [New Mexico Water Science Center Water-Data Inquiries](#)

[Questions about sites/data?](#)
[Feedback on this web site](#)
[Automated retrievals](#)
[Help](#)
[Data Tips](#)
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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: NWIS Site Information for USA: Site Inventory

URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=320419103302201

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

Page Last Modified: 2020-05-26 14:59:50 EDT

0.43 0.4 caww02





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02295	CUB	LE		2	2	4	12	26S	33E	639850	3547710*	1505	250	200	50
C 02293	CUB	LE		2	2	1	14	26S	33E	637501	3546975	2673	200	135	65
C 02294	CUB	LE		4	4	3	11	26S	33E	637465	3547003	2715	200	145	55
C 02292 POD1	CUB	LE		4	1	2	06	26S	34E	640992	3549987	3879	200	140	60
C 03441 POD1	C	LE		4	1	2	06	26S	34E	640971	3550039	3925	250		
C 03442 POD1	C	LE		4	1	2	06	26S	34E	641056	3550028	3935	251		
C 02291	CUB	LE		1	1	2	06	26S	34E	640825	3550140*	3993	220	160	60
C 02289	CUB	LE		4	4	4	03	26S	33E	636612	3548675*	4237	200	160	40
C 02288	CUB	LE		4	4	4	03	26S	33E	636646	3548758	4258	220	180	40
C 02285 POD1	CUB	LE		1	4	4	03	26S	33E	636613	3548855	4343	220	220	0
C 02290	CUB	LE		4	4	4	03	26S	33E	636538	3548770	4353	200	160	40
C 02286	CUB	LE		3	4	4	03	26S	33E	636470	3548714	4376	220	175	45
C 02287	C	LE		3	4	4	03	26S	33E	636427	3548708	4407	220		
C 02270	CUB	LE		1	1	2	27	26S	33E	636063	3543722	4717	150	125	25
C 03577 POD1	CUB	LE		3	3	3	22	26S	33E	636010	3543771	4736	750	110	640
C 03596 POD1	C	LE		3	3	4	22	26S	33E	636017	3543756	4738	225		

Average Depth to Water: **159 feet**

Minimum Depth: **110 feet**

Maximum Depth: **220 feet**

Record Count: 16

UTMNAD83 Radius Search (in meters):

Easting (X): 640065.19

Northing (Y): 3546219.54

Radius: 5000

*UTM location was derived from PLSS - see Help

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.



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)			
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	02295	2	2	4	12	26S	33E	639865	3547624 

Driller License: 122**Driller Company:** UNKNOWN**Driller Name:** UNKNOWN**Drill Start Date:****Drill Finish Date:** 12/31/1949**Plug Date:****Log File Date:****PCW Rcv Date:****Source:****Pump Type:****Pipe Discharge Size:****Estimated Yield:** 12 GPM**Casing Size:** 8.00**Depth Well:** 250 feet**Depth Water:** 200 feet

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.

6/15/20 9:05 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

(quarters are smallest to largest)

(NAD83 UTM in meters)

WR File Nbr	Sub			Owner	County	POD Number	Well		Source	q q q				X	Y	Distance			
	basin	Use	Diversion				Tag	Code Grant		6416	4	Sec	Tws				Rng		
C 02295	CUB	PLS		3 INTREPID POTASH NEW MEXICO LLC	LE	C 02295				2	2	4	12	26S	33E	639850	3547710*		1505
C 02293	CUB	PLS		3 DINWIDDIE CATTLE CO.	LE	C 02293				2	2	1	14	26S	33E	637500	3546975		2673
C 03499	C	PRO		0 EOG RESOURCES, INC.	LE	C 02293				2	2	1	14	26S	33E	637500	3546975		2673
C 02294	CUB	PLS		3 DINWIDDIE CATTLE CO.	LE	C 02294				4	4	3	11	26S	33E	637465	3547003		2715
C 03500	C	PRO		0 EOG RESOURCES, INC.	LE	C 02294				4	4	3	11	26S	33E	637465	3547003		2715
C 02292	CUB	PLS		3 DINWIDDIE CATTLE CO.	LE	C 02292 POD1				4	1	2	06	26S	34E	640991	3549987		3879
C 03493	C	PRO		0 EOG RESOURCES, INC.	LE	C 02292 POD1				4	1	2	06	26S	34E	640991	3549987		3879
C 03441	C	STK		3 INTREPID POTASH NEW MEXICO LLC	LE	C 03441 POD1			Shallow	4	1	2	06	26S	34E	640970	3550039		3925
C 03491	C	PRO		0 EOG RESOURCES, INC	LE	C 03441 POD1			Shallow	4	1	2	06	26S	34E	640970	3550039		3925
C 03442	C	STK		3 INTREPID POTASH NEW MEXICO LLC	LE	C 03442 POD1			Shallow	4	1	2	06	26S	34E	641055	3550028		3935
C 03477	C	PRO		0 EOG RESOURCES, INC.	LE	C 03442 POD1			Shallow	4	1	2	06	26S	34E	641055	3550028		3935
C 03492	C	PRO		0 EOG RESOURCES, INC	LE	C 03442 POD1			Shallow	4	1	2	06	26S	34E	641055	3550028		3935
C 02291	CUB	PLS		3 INTREPID POTASH NEW MEXICO LLC	LE	C 02291				1	1	2	06	26S	34E	640825	3550140*		3993
C 02287	C	STK		3 DINWIDDLE CATTLE CO.	LE	C 02287 POD2				4	4	4	03	26S	33E	636612	3548675*		4237
C 02289	CUB	PLS		3 DINWIDDIE CATTLE COMPANY LLC	LE	C 02289				4	4	4	03	26S	33E	636612	3548675*		4237
C 02288	CUB	PLS		3 DINWIDDLE CATTLE CO.	LE	C 02288				4	4	4	03	26S	33E	636645	3548758		4258
C 03497	C	PRO		0 EOG RESOURCES, INC.	LE	C 02288				4	4	4	03	26S	33E	636645	3548758		4258
C 02285	CUB	PLS		3 DINWIDDIE CATTLE CO.	LE	C 02285 POD1			Shallow	1	4	4	03	26S	33E	636612	3548855		4343

*UTM location was derived from PLSS - see Help

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(acre ft per annum)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q 6416	q 4	q Sec	Tws	Rng	X	Y	Distance	
C 03494	C	PRO		0 EOG RESOURCES, INC.	LE	C 02285 POD1				Shallow	1	4	4	03	26S	33E	636612	3548855 	4343
C 02290	CUB	PLS		3 DINWIDDLE CATTLE CO.	LE	C 02290					4	4	4	03	26S	33E	636538	3548770 	4353
C 03498	C	PRO		0 EOG RESOURCES, INC.	LE	C 02290					4	4	4	03	26S	33E	636538	3548770 	4353
C 02286	CUB	PLS		3 DINWIDDLE CATTLE CO.	LE	C 02286					3	4	4	03	26S	33E	636469	3548714 	4376
C 03495	C	PRO		0 EOG RESOURCES, INC.	LE	C 02286					3	4	4	03	26S	33E	636469	3548714 	4376
C 02287	C	STK		3 DINWIDDLE CATTLE CO.	LE	C 02287					3	4	4	03	26S	33E	636427	3548708 	4407
C 03496	C	PRO		0 EOG RESOURCES, INC.	LE	C 02287					3	4	4	03	26S	33E	636427	3548708 	4407
C 02270	CUB	PLS		3 OLIVER KIEHNE	LE	C 02270				Shallow	1	1	2	27	26S	33E	636062	3543722 	4717
C 03539	C	PRO		0 CIMAREX ENERGY COMPANY	LE	C 02270				Shallow	1	1	2	27	26S	33E	636062	3543722 	4717
C 03540	C	PRO		0 CIMAREX ENERGY COMPANY	LE	C 02270				Shallow	1	1	2	27	26S	33E	636062	3543722 	4717
C 03541	C	PRO		0 CIMAREX ENERGY COMPANY	LE	C 02270				Shallow	1	1	2	27	26S	33E	636062	3543722 	4717
C 03577	CUB	EXP		0 OLIVER D KIEHNE	LE	C 03577 POD1				Shallow	3	3	3	22	26S	33E	636010	3543771 	4736
C 03592	C	PRO		0 CONCHO OIL & GAS	LE	C 03577 POD1				Shallow	3	3	3	22	26S	33E	636010	3543771 	4736
C 03593	C	PRO		0 CONCHO OIL & GAS	LE	C 03577 POD1				Shallow	3	3	3	22	26S	33E	636010	3543771 	4736
C 03594	C	PRO		0 CONCHO OIL & GAS	LE	C 03577 POD1				Shallow	3	3	3	22	26S	33E	636010	3543771 	4736
C 03676	C	PRO		0 CONCHO OIL & GAS	LE	C 03577 POD1				Shallow	3	3	3	22	26S	33E	636010	3543771 	4736
C 03677	C	PRO		0 CONCHO OIL & GAS	LE	C 03577 POD1				Shallow	3	3	3	22	26S	33E	636010	3543771 	4736
C 03678	C	PRO		0 CONCHO OIL & GAS	LE	C 03577 POD1				Shallow	3	3	3	22	26S	33E	636010	3543771 	4736
C 03596	C	STK		3 OLIVER D KIEHNE	LE	C 03596 POD1				Shallow	3	3	4	22	26S	33E	636016	3543756 	4738
C 03597	C	PRO		0 CONCHO OIL & GAS	LE	C 03596 POD1				Shallow	3	3	4	22	26S	33E	636016	3543756 	4738
C 03598	C	PRO		0 CONCHO OIL & GAS	LE	C 03596 POD1				Shallow	3	3	4	22	26S	33E	636016	3543756 	4738
C 03599	C	PRO		0 CONCHO OIL & GAS	LE	C 03596 POD1				Shallow	3	3	4	22	26S	33E	636016	3543756 	4738

(acre ft per annum)										(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)									
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q q q	6416 4	Sec	Tws	Rng	X	Y	Distance	

Record Count: 40

UTMNAD83 Radius Search (in meters):

Easting (X): 640065.19 Northing (Y): 3546219.54 Radius: 5000

Sorted by: Distance

Fighting Okra 18 Fed 1

Nearest watercourse: Pecos River
Distance: 27.99 miles (147,810 ft)

Legend

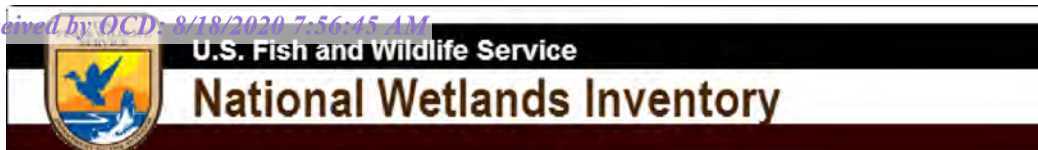
 Fighting Okra 18 Fed 1

 Fighting Okra 18 Fed 1

Google Earth

10 mi





Fighting Okra: Watercourse 12,532 ft



March 8, 2020

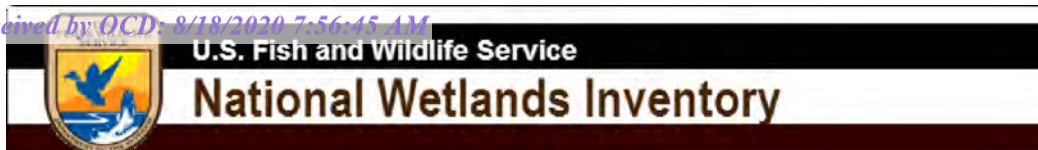
Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Riverine
- Other

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



Fighting Okra: Pond 4,796 ft



March 8, 2020

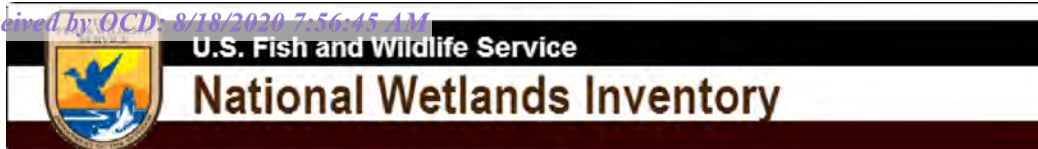
Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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



Fighting Okra: Wetland 3,987 ft



March 8, 2020

Wetlands

	Estuarine and Marine Deepwater		Freshwater Emergent Wetland		Lake
	Estuarine and Marine Wetland		Freshwater Forested/Shrub Wetland		Other
			Freshwater Pond		Riverine

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

National Flood Hazard Layer FIRMette



32°2'51.85"N



32°2'21.35"N

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



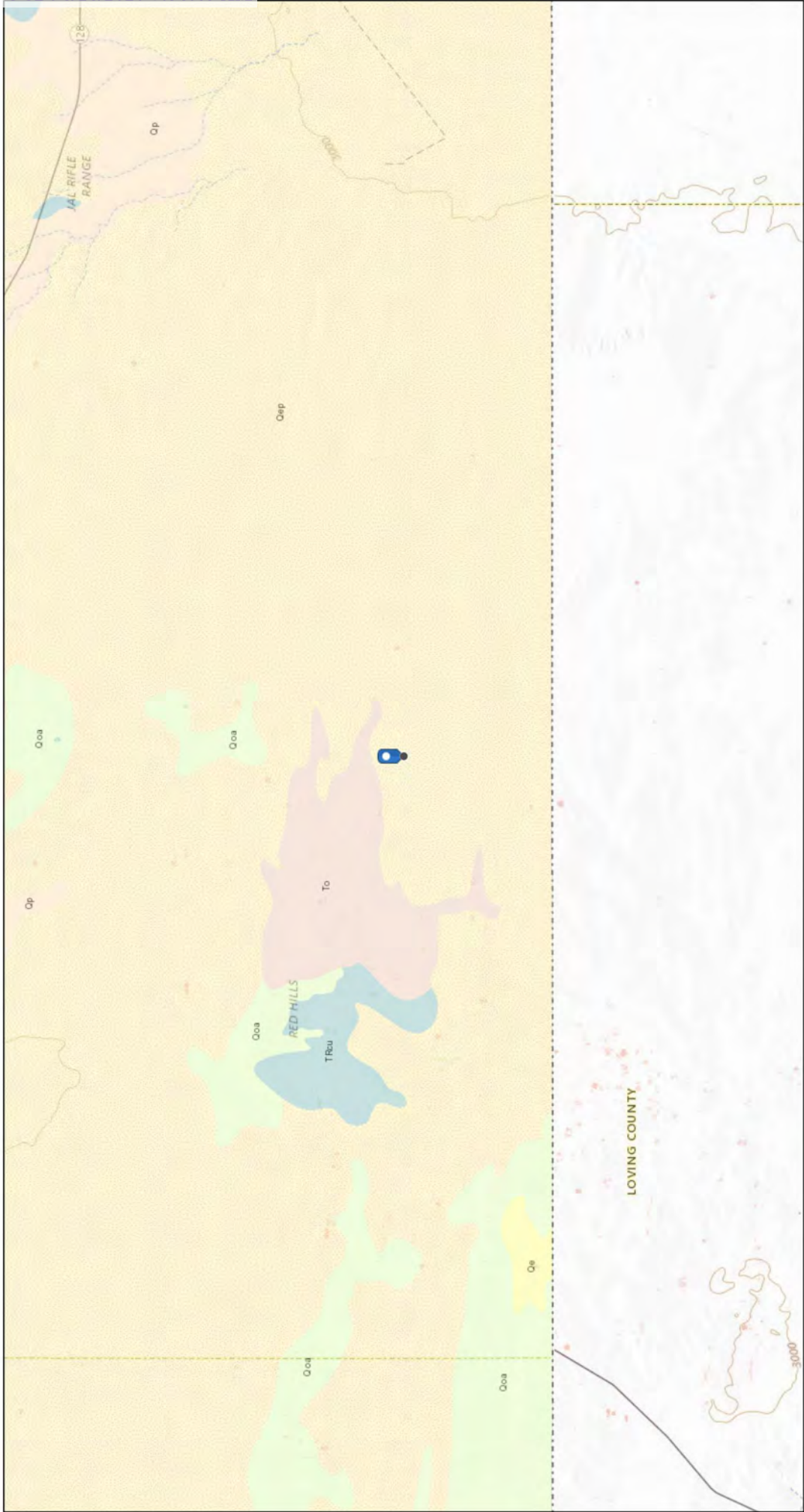
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/8/2020 at 11:38:00 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Fighting Okra 18 Fed 1 Qep Geology



5/26/2020, 12:49:36 PM

Faults

—

Fault, Exposed

Fault, Intermittent

.....

Fault, Concealed

~~~~

Shere Zone

Dikes

—

<all other values>

—

Dike

++++

Dike intruding fault

STATEMAP (1993 to Present) [Publications]

Mapping in Complete

Mapping in Progress

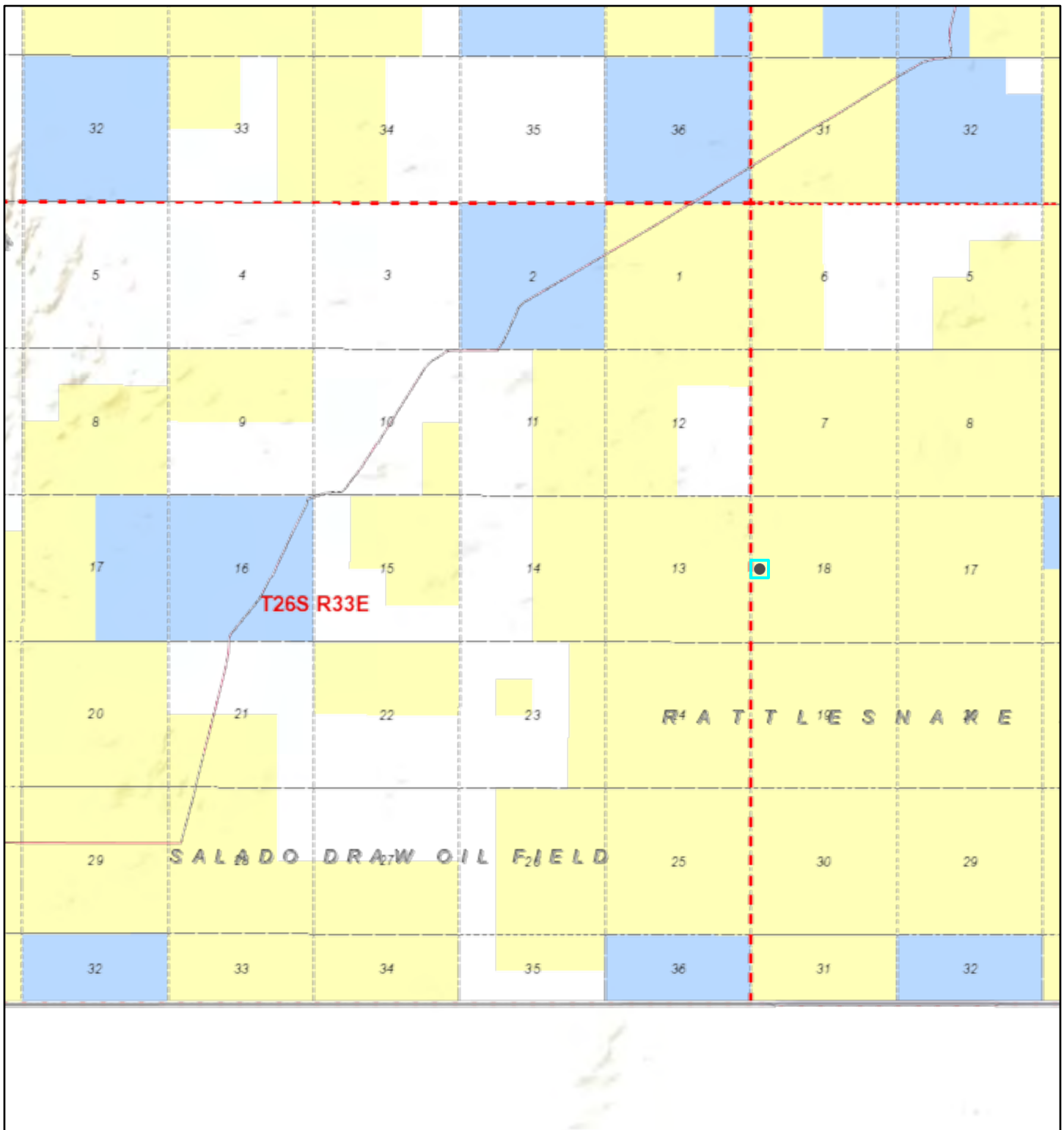
USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset, USGS Global Ecosystems; U.S. Census Bureau TIGER/Line

USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset, USGS

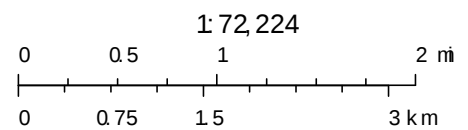
Web AppBuilder for ArcGIS

Page 32 of 126

## Active Mines near Fighting Okra 18 Fed Com 1H



3/8/2020, 10:36:37 AM



U.S. Bureau of Land Management - New Mexico State Office, Sources:  
Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

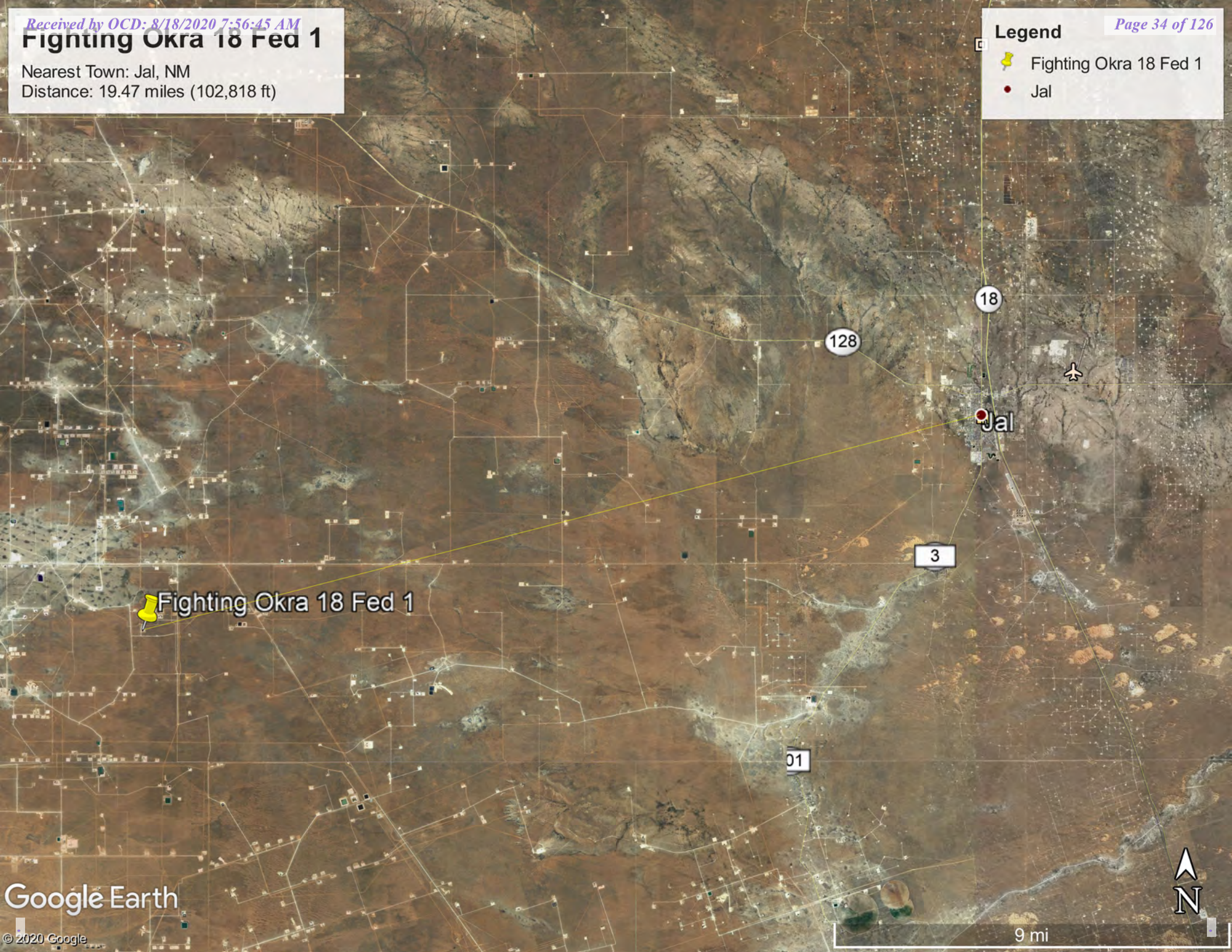
# Fighting Okra 18 Fed 1

Nearest Town: Jal, NM

Distance: 19.47 miles (102,818 ft)

## Legend

-  Fighting Okra 18 Fed 1
-  Jal



# Fighting Okra 18 Fed Com 1H

Nearest Residence: 8,898 ft

## Legend

 Feature 1

Residence

Fighting Okra 18 Fed Com 1H

Google Earth

© 2020 Google

1 km



Soil Map—Lea County, New Mexico  
(Fighting Okra 18 Fed Com 1H)

Soil Map—Lea County, New Mexico  
(Fighting Okra 18 Fed Com 1H)

## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

### Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

### Water Features



Streams and Canals

### Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

### Background



Aerial Photography

## MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 16, Sep 15, 2019

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

Date(s) aerial images were photographed: Dec 31, 2009—Sep 17, 2017

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

## Map Unit Legend

| Map Unit Symbol                    | Map Unit Name                 | Acres in AOI | Percent of AOI |
|------------------------------------|-------------------------------|--------------|----------------|
| PU                                 | Pyote and maljamar fine sands | 4.4          | 100.0%         |
| <b>Totals for Area of Interest</b> |                               | <b>4.4</b>   | <b>100.0%</b>  |



## Lea County, New Mexico

### PU—Pyote and maljamar fine sands

#### Map Unit Setting

*National map unit symbol:* dmqq

*Elevation:* 3,000 to 3,900 feet

*Mean annual precipitation:* 10 to 12 inches

*Mean annual air temperature:* 60 to 62 degrees F

*Frost-free period:* 190 to 205 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Maljamar and similar soils:* 45 percent

*Pyote and similar soils:* 45 percent

*Minor components:* 10 percent

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

#### Description of Maljamar

##### Setting

*Landform:* Plains

*Landform position (three-dimensional):* Rise

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Sandy eolian deposits derived from sedimentary rock

##### Typical profile

*A - 0 to 24 inches:* fine sand

*Bt - 24 to 50 inches:* sandy clay loam

*Bkm - 50 to 60 inches:* cemented material

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* 40 to 60 inches to petrocalcic

*Natural drainage class:* Well drained

*Runoff class:* Very low

*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum in profile:* 5 percent

*Gypsum, maximum in profile:* 1 percent

*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum in profile:* 2.0

*Available water storage in profile:* Low (about 5.6 inches)

**Interpretive groups**

*Land capability classification (irrigated):* 6e  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* B  
*Ecological site:* Loamy Sand (R042XC003NM)  
*Hydric soil rating:* No

**Description of Pyote****Setting**

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

**Typical profile**

*A - 0 to 30 inches:* fine sand  
*Bt - 30 to 60 inches:* fine sandy loam

**Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Well drained  
*Runoff class:* Negligible  
*Capacity of the most limiting layer to transmit water (Ksat):* High (2.00 to 6.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum in profile:* 5 percent  
*Gypsum, maximum in profile:* 1 percent  
*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 2.0  
*Available water storage in profile:* Low (about 5.1 inches)

**Interpretive groups**

*Land capability classification (irrigated):* 6e  
*Land capability classification (nonirrigated):* 7s  
*Hydrologic Soil Group:* A  
*Ecological site:* Loamy Sand (R042XC003NM)  
*Hydric soil rating:* No

**Minor Components****Kermit**

*Percent of map unit:* 10 percent  
*Ecological site:* Sandhills (R042XC022NM)

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

Fighting Okra 18 Fed Com 1H

---

*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Lea County, New Mexico  
Survey Area Data: Version 16, Sep 15, 2019

# Ultra-Archaea®

Safe, Versatile, Proven Bioremediation



#1 RATED BIOREMEDIATION  
FORMULA IN RECENT  
BP - LOUISIANA STATE  
UNIVERSITY TESTING

## Naturally occurring microbes help bioremediate oil spills and other contaminated areas

### Where do they come from?

Ultra-Archaea are a collection of over 100 different species of archaea that are cultivated from rugged environments such as undersea vents or sites where there is volcanic activity. They are then bred and naturally enhanced in sea water and ammonia using sweet Texas crude oil as their only food source.

### 100% Natural.

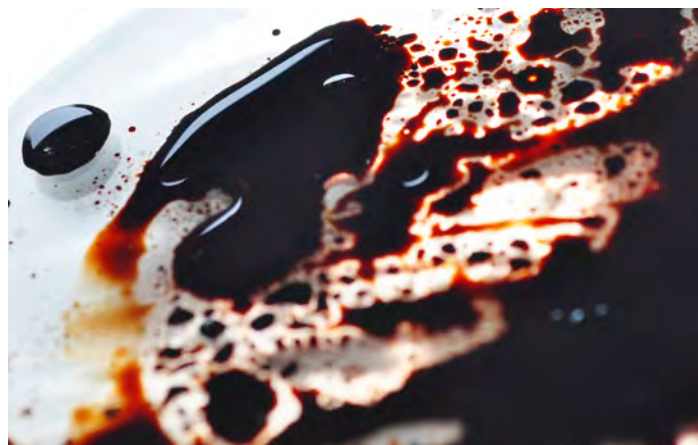
The result is 100% natural, hardy and fast-acting microbes that have an affinity for oil and other hydrocarbons, as well as organic waste. This specific collection of microbes (Ultra-Archaea) has not been genetically altered or engineered. These naturally occurring microbes have been on the EPA National Contingency List since its inception. Unlike bacteria, archaea will not become pathogenic.

### How do they work?

Ultra-Archaea will digest hydrocarbon molecules and break them down into harmless byproducts of carbon, carbon dioxide and lipids (a natural, soluble fatty material that is food for fish and plants). The more complex the hydrocarbon, the longer this process may take (for example, kerosene and diesel will be consumed more quickly than motor oil). This naturally occurring process is supercharged by adding these specific archaea to any oil spill or contaminated area (see below). It infuses 5 to 90 billion archaea per gram into an oil spill, greasy catch basin, oil/water separator, etc. and within hours these archaea have reproduced from billions per gram to trillions. With water, oxygen and an organic food source (such as oil) these microbes will form vast colonies and digest and remediate oil on land and on water, as well as grease traps, septic tanks, storm drains and almost any other area where contaminants are present.

### What happens to them when they are “done”?

After approximately ninety days or when the microbes have been deprived of water, oxygen, or a food source, the microbe colony will begin to naturally die off, allowing the indigenous microbes to return to pre-contamination levels.



### How are they shipped?

The Ultra-Archaea are shipped dormant in a bentonite clay or sugar based carrier. When the carrier dissolves in water, the archaea become activated and water may become temporarily murky due to the infusion of the clay.

### What else do I need to know?

Ultra-Archaea products should be stored and applied between 32°F and 120°F (Ideal temp is 40°F - 110°F). Temperatures outside that range may cause the microbes to become ineffective. Ultra-Archaea should not be exposed to radiation. Ultra-Archaea should only be used in applications where the pH is between 5.0 and 8.5. Visit our website, [www.Ultra-Archaea.com](http://www.Ultra-Archaea.com) to view our FAQs and test data.



Test samples: Container on left shows untreated oil and water. Container on right was treated with Ultra-Archaea and shows that only lipids were left after the bio-remediation took place. The dark material in the bottom of the container is the clay carrier.

## Ultra-Archaea® Shakers



- + Ultra-Archaea are housed in a bentonite clay powder that provides the slightly moist environment needed for them to live.
- + Two sizes of shakers available for application on smaller spills or contained areas.
- + Resealable/water-proof containers keep archaea dry/dormant until they are needed.



5238

5239



NOTE: All Ultra-Archaea products are stamped with an expiration date and have a typical shelf life of approximately 5 years.

## Ultra-Archaea® Water Soluble Packets



- + 4 oz. water soluble packets can be thrown into oil/water separators, catch basins, grease traps and other areas to facilitate oil and grease removal.
- + Small size, big results — no measuring, scooping or spreading. Simply place the entire packet into the area that needs to be cleaned. The water soluble packet will dissolve and allow the Ultra-Archaea to spread throughout the area.

5232



## Ultra-Archaea® Bulk Bags



- + Bulk bags (25 lbs.) are available for large spills, open water applications or frequent use areas.
- + Keep on hand for refilling Shakers or other smaller containers or for large, unexpected spills.

Patents: See [www.ultratechpatents.com](http://www.ultratechpatents.com)

| Part# | Description                  | Weight lbs. (kg) |
|-------|------------------------------|------------------|
| 5238  | 6 Ounce Shaker               | 6 oz (171 g)     |
| 5239  | 28 Ounce Shaker              | 28 oz (794 g)    |
| 5232  | Water Soluble Packets 6-Pack | 4 oz (113 g)     |
| 5233  | Bulk Bag                     | 25 lbs (11kg)    |



5233

## Ultra-Archaea Booms®



- + Specially-treated polyethylene foam used in Ultra-Archaea Booms allows it to float on the water's surface while also absorbing oil.
- + Six Ultra-Archaea tablets are inserted into slits in the foam sleeves - extended water contact causes the tablets to slowly dissolve, releasing the archaea into the water.
- + Booms can be dropped in, or tied off in catch basins (lanyards included), oil/ water separators or other areas where oily water can collect.



5234

| Part# | Qty.   | Dimensions in. (mm)        | Weight lbs. (kg) |
|-------|--------|----------------------------|------------------|
| 5234  | 6-pack | 6 x 4 x 1 (152 x 102 x 25) | 2.0 (1.0)        |

*It is important to be aware that Ultra-Archaea may not be the answer or 100% effective in every application. Consult with UltraTech's technical team to determine if your needs can be met with Ultra-Archaea.*

## **ATTACHMENT 4**

Client Name: Devon Energy Production Company  
 Site Name: Fighting Okra 18 Fed Com 1H  
 NM OCD Incident Tracking Number: NRM2005653696  
 Project #: 20E-00141-040  
 Lab Report: 2003960

| Table 2. Characterization Sampling Field Screening and Laboratory Results - Depth to Groundwater < 50 feet |            |                |                                           |                                                     |                                           |                        |                         |                                          |                                        |                                           |                        |                                               |                     |
|------------------------------------------------------------------------------------------------------------|------------|----------------|-------------------------------------------|-----------------------------------------------------|-------------------------------------------|------------------------|-------------------------|------------------------------------------|----------------------------------------|-------------------------------------------|------------------------|-----------------------------------------------|---------------------|
| Sample Description                                                                                         |            |                | Field Screening                           |                                                     |                                           | Petroleum Hydrocarbons |                         |                                          |                                        |                                           |                        |                                               | Inorganic           |
| Sample ID                                                                                                  | Depth (ft) | Sample Date    | Volatile Organic Compounds (PID)<br>(ppm) | Extractable Organic Compounds (Petro Flag)<br>(ppm) | Inorganics (Electroconductivity)<br>(ppm) | Volatile               |                         | Extractable                              |                                        |                                           |                        |                                               | Chloride<br>(mg/kg) |
|                                                                                                            |            |                |                                           |                                                     |                                           | Benzene<br>(mg/kg)     | BTEX (Total)<br>(mg/kg) | Gasoline Range Organics (GRO)<br>(mg/kg) | Diesel Range Organics (DRO)<br>(mg/kg) | Motor Oil Range Organics (MRO)<br>(mg/kg) | (GRO + DRO)<br>(mg/kg) | Total Petroleum Hydrocarbons (TPH)<br>(mg/kg) |                     |
| BH20-01                                                                                                    | 0          | March 18, 2020 | -                                         | -                                                   | 269                                       | <0.024                 | <0.213                  | <4.7                                     | 630                                    | 14,000                                    | 630                    | <b>14,630</b>                                 | 290                 |
| BH20-01                                                                                                    | 0.5        | March 18, 2020 | 108.0                                     | -                                                   | 1,145                                     | <0.023                 | <0.211                  | <4.7                                     | <9.4                                   | <47                                       | <14.1                  | <61.1                                         | <b>770</b>          |
| BH20-01                                                                                                    | 1          | March 18, 2020 | 18.0                                      | -                                                   | 484                                       | -                      | -                       | -                                        | -                                      | -                                         | -                      | -                                             | -                   |
| BH20-01                                                                                                    | 2          | March 18, 2020 | -                                         | -                                                   | 444                                       | -                      | -                       | -                                        | -                                      | -                                         | -                      | -                                             | -                   |
| BH 20-02                                                                                                   | 0          | March 18, 2020 | -                                         | -                                                   | 2,952                                     | -                      | -                       | -                                        | -                                      | -                                         | -                      | -                                             | -                   |
| BH 20-02                                                                                                   | 0.5        | March 18, 2020 | 13                                        | -                                                   | 659                                       | -                      | -                       | -                                        | -                                      | -                                         | -                      | -                                             | -                   |
| BH 20-02                                                                                                   | 1          | March 18, 2020 | 10                                        | -                                                   | 298                                       | -                      | -                       | -                                        | -                                      | -                                         | -                      | -                                             | -                   |
| BH 20-03                                                                                                   | 0          | March 18, 2020 | -                                         | -                                                   | 278                                       | <0.024                 | <0.215                  | <4.8                                     | 4,900                                  | 2,600                                     | <b>7,500</b>           | <b>7,500</b>                                  | 200                 |
| BH 20-03                                                                                                   | 0.5        | March 18, 2020 | 95                                        | -                                                   | 614                                       | <0.024                 | <0.216                  | <4.8                                     | 38                                     | <49                                       | 38                     | 38                                            | 590                 |
| BH 20-03                                                                                                   | 1          | March 18, 2020 | 16                                        | -                                                   | 1,585                                     | -                      | -                       | -                                        | -                                      | -                                         | -                      | -                                             | -                   |
| BH 20-04                                                                                                   | 0          | March 18, 2020 | -                                         | -                                                   | 6,132                                     | -                      | -                       | -                                        | -                                      | -                                         | -                      | -                                             | -                   |
| BH 20-04                                                                                                   | 0.5        | March 18, 2020 | 33                                        | -                                                   | 3,164                                     | -                      | -                       | -                                        | -                                      | -                                         | -                      | -                                             | -                   |
| BH20-04                                                                                                    | 1          | March 18, 2020 | 20                                        | -                                                   | 455                                       | -                      | -                       | -                                        | -                                      | -                                         | -                      | -                                             | -                   |
| BH20-05                                                                                                    | 0          | March 18, 2020 | -                                         | -                                                   | 1,409                                     | <0.023                 | <0.202                  | <4.6                                     | 7,500                                  | 3,800                                     | <b>7,500</b>           | <b>11,300</b>                                 | <b>1,400</b>        |
| BH20-05                                                                                                    | 0.5        | March 18, 2020 | 59                                        | -                                                   | 5,795                                     | <0.025                 | <0.211                  | <4.9                                     | <9.9                                   | <49                                       | <14.8                  | <63.8                                         | <b>4,200</b>        |
| BH20-05                                                                                                    | 1          | March 18, 2020 | 35                                        | -                                                   | 122                                       | -                      | -                       | -                                        | -                                      | -                                         | -                      | -                                             | -                   |
| SS20-01                                                                                                    | 0          | March 18, 2020 | 0                                         | -                                                   | 1,311                                     | -                      | -                       | -                                        | -                                      | -                                         | -                      | -                                             | -                   |
| SS20-01                                                                                                    | 0.5        | March 18, 2020 | 1                                         | -                                                   | 4,563                                     | -                      | -                       | -                                        | -                                      | -                                         | -                      | -                                             | -                   |
| SS20-02                                                                                                    | 0          | March 18, 2020 | 0                                         | -                                                   | 550                                       | <0.024                 | <0.217                  | <4.8                                     | 13                                     | 55                                        | 13                     | 68                                            | 300                 |
| SS20-02                                                                                                    | 0.5        | March 18, 2020 | 1                                         | -                                                   | 604                                       | -                      | -                       | -                                        | -                                      | -                                         | -                      | -                                             | -                   |
| SS20-03                                                                                                    | 0          | March 18, 2020 | 1                                         | -                                                   | 511                                       | -                      | -                       | -                                        | -                                      | -                                         | -                      | -                                             | -                   |
| SS20-03                                                                                                    | 0.5        | March 18, 2020 | 1                                         | -                                                   | 396                                       | -                      | -                       | -                                        | -                                      | -                                         | -                      | -                                             | -                   |
| SS20-04                                                                                                    | 0          | March 18, 2020 | 20                                        | -                                                   | 314                                       | <0.024                 | <0.22                   | <4.9                                     | 120                                    | 190                                       | 120                    | 310                                           | 140                 |
| SS20-04                                                                                                    | 0.5        | March 18, 2020 | 297                                       | -                                                   | 2,041                                     | -                      | -                       | -                                        | -                                      | -                                         | -                      | -                                             | -                   |
| SS20-05                                                                                                    | 0          | March 18, 2020 | 1                                         | -                                                   | 357                                       | -                      | -                       | -                                        | -                                      | -                                         | -                      | -                                             | -                   |
| SS20-05                                                                                                    | 0.5        | March 18, 2020 | 1                                         | -                                                   | 1,102                                     | -                      | -                       | -                                        | -                                      | -                                         | -                      | -                                             | -                   |
| SS20-06                                                                                                    | 0          | March 18, 2020 | 1                                         | -                                                   | 715                                       | <0.024                 | <0.219                  | <4.9                                     | 1,600                                  | 2,900                                     | <b>1,600</b>           | <b>4,500</b>                                  | 480                 |
| SS20-06                                                                                                    | 0.5        | March 18, 2020 | 1                                         | -                                                   | 705                                       | -                      | -                       | -                                        | -                                      | -                                         | -                      | -                                             | -                   |
| SS20-07                                                                                                    | 0          | March 18, 2020 | 1                                         | -                                                   | 2,718                                     | -                      | -                       | -                                        | -                                      | -                                         | -                      | -                                             | -                   |
| SS20-07                                                                                                    | 0.5        | March 18, 2020 | 1                                         | -                                                   | 7,113                                     | -                      | -                       | -                                        | -                                      | -                                         | -                      | -                                             | -                   |

"-" - Not applicable/assessed

**Bold and shaded indicates exceedance outside of NM OCD Closure Criteria**

Client Name: Devon Energy Production Company  
 Site Name: Fighting Okra 18 Fed Com 1H  
 NM OCD Incident Tracking Number: NRM2005653696  
 Project #: 20E-00141-040  
 Lab Report: 2006700

| Table 3. Confirmatory Sampling Laboratory Results - Depth to Groundwater < 50 feet |            |               |                        |              |                               |                             |                                |             |                                    |           |
|------------------------------------------------------------------------------------|------------|---------------|------------------------|--------------|-------------------------------|-----------------------------|--------------------------------|-------------|------------------------------------|-----------|
| Sample Description                                                                 |            |               | Petroleum Hydrocarbons |              |                               |                             |                                |             |                                    | Inorganic |
| Sample ID                                                                          | Depth (ft) | Sample Date   | Volatile               |              | Extractable                   |                             |                                |             |                                    | Chloride  |
|                                                                                    |            |               | Benzene                | BTEX (Total) | Gasoline Range Organics (GRO) | Diesel Range Organics (DRO) | Motor Oil Range Organics (MRO) | (GRO + DRO) | Total Petroleum Hydrocarbons (TPH) |           |
|                                                                                    |            |               | (mg/kg)                | (mg/kg)      | (mg/kg)                       | (mg/kg)                     | (mg/kg)                        | (mg/kg)     | (mg/kg)                            |           |
| BS20-01                                                                            | 0.5        | June 11, 2020 | <0.025                 | <0.225       | <5.0                          | <9.8                        | <49                            | <14.8       | <63.8                              | 140       |
| BS20-02                                                                            | 0.5        | June 11, 2020 | <0.025                 | <0.221       | <4.9                          | <9.2                        | <46                            | <14.1       | <60.1                              | 190       |
| BS20-03                                                                            | 0.5        | June 11, 2020 | <0.025                 | <0.222       | <4.9                          | <9.9                        | <49                            | <14.8       | <63.8                              | 170       |
| BS20-04                                                                            | 0.5        | June 11, 2020 | <0.025                 | <0.225       | <5.0                          | <9.7                        | <48                            | <14.7       | <62.7                              | 150       |
| BS20-05                                                                            | 0.5        | June 11, 2020 | <0.025                 | <0.222       | <4.9                          | <9.9                        | <49                            | <14.8       | <63.8                              | 200       |
| BS20-06                                                                            | 0.5        | June 11, 2020 | <0.024                 | <0.220       | <4.9                          | <9.9                        | <50                            | <14.8       | <64.8                              | 170       |
| BS20-07                                                                            | 0.5        | June 11, 2020 | <0.024                 | <0.216       | <4.8                          | <9.2                        | <46                            | <14.0       | <60.0                              | 180       |
| BS20-08                                                                            | 0.5        | June 11, 2020 | <0.024                 | <0.216       | <4.8                          | <9.6                        | <48                            | <14.4       | <62.4                              | 190       |
| BS20-09                                                                            | 0.5        | June 11, 2020 | <0.025                 | <0.221       | <4.9                          | <9.5                        | <47                            | <14.4       | <61.4                              | 170       |
| BS20-10                                                                            | 0.5        | June 11, 2020 | <0.024                 | <0.220       | <4.9                          | <9.8                        | <49                            | <14.7       | <63.5                              | 150       |
| BS20-11                                                                            | 0.5        | June 11, 2020 | <0.025                 | <0.222       | <4.9                          | <9.4                        | <47                            | <14.3       | <61.3                              | 220       |
| BS20-12                                                                            | 0.5        | June 11, 2020 | <0.024                 | <0.212       | <4.7                          | <9.8                        | <49                            | <14.5       | <63.5                              | 180       |
| BS20-13                                                                            | 0.5        | June 11, 2020 | <0.024                 | <0.216       | <4.8                          | <9.6                        | <48                            | <14.4       | <62.4                              | 180       |
| BS20-14                                                                            | 0.5        | June 11, 2020 | <0.025                 | <0.225       | <5.0                          | <9.3                        | <46                            | <14.3       | <60.3                              | 140       |
| BS20-15                                                                            | 0.5        | June 11, 2020 | <0.024                 | <0.213       | <4.7                          | <9.8                        | <49                            | <14.5       | <63.5                              | 190       |
| BS20-16                                                                            | 0.5        | June 11, 2020 | <0.024                 | <0.216       | <4.8                          | <9.5                        | <47                            | <14.3       | <61.3                              | 210       |
| BS20-17                                                                            | 0.5        | June 11, 2020 | <0.024                 | <0.212       | <4.7                          | <9.8                        | <49                            | <14.5       | <63.5                              | 180       |
| BS20-18                                                                            | 0.5        | June 11, 2020 | <0.024                 | <0.217       | <4.8                          | <9.6                        | <48                            | <14.4       | <62.4                              | 270       |
| BS20-19                                                                            | 0.5        | June 11, 2020 | <0.024                 | <0.216       | <4.8                          | <9.4                        | <47                            | <14.2       | <61.2                              | 170       |
| BS20-20                                                                            | 0.5        | June 11, 2020 | <0.024                 | <0.216       | <4.8                          | <9.5                        | <48                            | <14.3       | <62.3                              | 160       |
| BS20-21                                                                            | 0.5        | June 11, 2020 | <0.025                 | <0.224       | <5.0                          | <10.0                       | <50                            | <15.0       | <65.0                              | 190       |
| BS20-22                                                                            | 0.5        | June 11, 2020 | <0.024                 | <0.212       | <4.7                          | <9.5                        | <47                            | <14.2       | <61.2                              | 220       |
| BS20-23                                                                            | 0.5        | June 11, 2020 | <0.023                 | <0.210       | <4.7                          | <9.5                        | <48                            | <14.2       | <62.2                              | 200       |
| BS20-24                                                                            | 0.5        | June 11, 2020 | <0.023                 | <0.207       | <4.6                          | <9.5                        | <47                            | <14.1       | <61.1                              | 220       |
| BS20-25                                                                            | 0.5        | June 11, 2020 | <0.024                 | <0.212       | <4.7                          | <9.6                        | <48                            | <14.3       | <62.3                              | 130       |
| WS20-01                                                                            | 0          | June 11, 2020 | <0.025                 | <0.225       | <5.0                          | <9.8                        | <49                            | <14.8       | <63.8                              | 170       |
| WS20-02                                                                            | 0          | June 11, 2020 | <0.024                 | <0.219       | <4.9                          | <9.6                        | <48                            | <14.5       | <62.5                              | 140       |
| WS20-03                                                                            | 0          | June 11, 2020 | <0.025                 | <0.222       | <4.9                          | <9.4                        | <47                            | <14.3       | <61.3                              | 210       |
| WS20-04                                                                            | 0          | June 11, 2020 | <0.024                 | <0.220       | <4.9                          | <9.3                        | <47                            | <14.2       | <61.2                              | 180       |

"-" - Not applicable/assessed

**Bold and shaded indicates exceedance outside of NM OCD Closure Criteria**

## **ATTACHMENT 5**



## Daily Site Visit Report

|                         |                               |                   |                    |
|-------------------------|-------------------------------|-------------------|--------------------|
| Client:                 | Devon Energy Corporation      | Inspection Date:  | 3/18/2020          |
| Site Location Name:     | Fighting Okra 18 Fed Com 001H | Report Run Date:  | 3/18/2020 11:21 PM |
| Project Owner:          | Amanda Davis                  | File (Project) #: | 20E-00141          |
| Project Manager:        | Natalie Gordon                | API #:            | 30-025-40382       |
| Client Contact Name:    | Amanda Davis                  | Reference         | Flowline release   |
| Client Contact Phone #: | (575) 748-0176                |                   |                    |

### Summary of Times

|                    |                    |
|--------------------|--------------------|
| Left Office        | 3/18/2020 8:20 AM  |
| Arrived at Site    | 3/18/2020 10:06 AM |
| Departed Site      | 3/18/2020 3:00 PM  |
| Returned to Office |                    |

## Daily Site Visit Report



## Site Sketch

Client: Devon  
 Date: 3/18/20  
 Site Name: Fighting Okra 18-1  
 Site Location:  
 Project Owner:  
 Project Manager:  
 Project ID:

Initial Spill Information - Record on First Visit  
 Spill Date:  
 Spill Volume:  
 Spill Cause:  
 Spill Product:  
 Recovered Spill Volume:  
 Recovery Methods:

| Sample ID                                    | Depth (ft) | Field Screening |                       | Sampling                   |                          | Data Collection (Check for Yes) |                     |                                  |  |
|----------------------------------------------|------------|-----------------|-----------------------|----------------------------|--------------------------|---------------------------------|---------------------|----------------------------------|--|
|                                              |            | VOC (ppb)       | Percolating TPH (ppm) | Chloride (High/Low) = or - | Lab Analysis             | Picture                         | Trimble Coordinates | Marked on Site Sketch            |  |
| SS/TPH/Chloride - Your Number<br>Ex. BH15-01 | Ex. 20     | Ex. 400 ppb     | 200 ppm               | Ex. High +                 | Ex. Hydrocarbon Chloride |                                 |                     |                                  |  |
| 12:30 BH1                                    | 0          | 1.7             |                       | 0.32/20.5                  |                          |                                 |                     |                                  |  |
| 12:35                                        | 0.5        |                 | 108                   | 0.88/21.6                  |                          |                                 |                     |                                  |  |
| 12:40                                        | 1          |                 | 18                    | 0.44/21.2                  |                          |                                 |                     |                                  |  |
| 12:45                                        | 2          |                 |                       | 0.37/20.8                  |                          |                                 |                     |                                  |  |
| 1:00 BH2                                     | 0          |                 |                       | 0.09/20.2                  | caliche                  |                                 |                     |                                  |  |
| 1:05                                         | 0.5        |                 | 13                    | 0.48/19.5                  | sand                     |                                 |                     |                                  |  |
| 1:10                                         | 1          |                 | 10                    | 0.23/19.5                  | sand                     |                                 |                     | stopped here due to BH1 cleaning |  |
| 1:20 BH3                                     | 0          |                 |                       | 0.21/19.3                  | caliche                  |                                 |                     |                                  |  |
| 1:25                                         | 0.5        |                 | 95                    | 0.44/19.2                  | sand                     |                                 |                     |                                  |  |
| 1:30                                         | 1          |                 | 16                    | 1.11/19.1                  | 1085 sand                |                                 |                     |                                  |  |
| 1:40 BH4                                     | 0          |                 |                       | 4.09/20.1                  |                          |                                 |                     |                                  |  |
| 1:45                                         | 0.5        |                 | 33                    | 0.21/19.3                  |                          |                                 |                     |                                  |  |
| 1:50                                         | 1          |                 | 20                    | 0.36/20.2                  |                          |                                 |                     |                                  |  |
| 1:55 BH5                                     | 0          |                 |                       | 1.03/20.5                  |                          |                                 |                     |                                  |  |
| 2:00                                         | 0.5        |                 | 59                    | 4.03/19.2                  |                          |                                 |                     |                                  |  |
| 2:05                                         | hold       |                 | 35                    | 0.09/18.9                  |                          |                                 |                     |                                  |  |

THINK Master

## Daily Site Visit Report



**Spill Response and Sampling**

Client: DWON  
 Date: 3/18/20  
 Site Name: Fighting Okra 18-1  
 Site Location: \_\_\_\_\_  
 Project Owner: \_\_\_\_\_  
 Project Manager: \_\_\_\_\_  
 Project #: \_\_\_\_\_

**Initial Spill Information - Record on First Visit**

Spill Date: \_\_\_\_\_  
 Spill Volume: \_\_\_\_\_  
 Spill Cause: \_\_\_\_\_  
 Spill Product: \_\_\_\_\_  
 Recovered Spill Volume: \_\_\_\_\_  
 Recovery Method: \_\_\_\_\_

| Sampling      |            |           |                     |                          | Data Collection (Check for Yes) |         |                      |                       |
|---------------|------------|-----------|---------------------|--------------------------|---------------------------------|---------|----------------------|-----------------------|
| Sample ID     | Depth (ft) | VOC (ppb) | Petroleum TPH (ppm) | Quantals (High/Low) or - | Lab Analysis                    | Picture | Trimbles Coordinates | Marked on Site Sketch |
| SS/PHL - Year |            | Ex. 2ft   | Ex. 400 ppm         | Ex. 7 High 9             | Ex. Hydrocarbon Chloride        |         |                      |                       |
| 9:15 SS1      | 0          | 0.4       |                     | 0.89/18.1                | Caliche                         |         |                      |                       |
| 9:20          | 0.5        | 0.5       |                     | 3.19/18.0                | Caliche                         |         |                      |                       |
| 9:25 SS2      | 0          | 0.4       |                     | 0.36/18.0                | Caliche                         |         |                      |                       |
| 9:30          | 0.5        | 0.5       |                     | 0.40/18.1                | Sand                            |         |                      |                       |
| 9:35 SS3      | 0          | 0.6       |                     | 0.33/17.9                | Caliche                         |         |                      |                       |
| 9:40          | 0.5        | 0.7       |                     | 0.25/17.9                | Sand Caliche mix                |         |                      |                       |
| 9:45 SS4      | 0          | 74.8      |                     | 0.18/17.8                | Sand                            |         |                      |                       |
| 9:50          | 0.5        | 723.2     |                     | 1.30/17.9                | Sand                            |         |                      |                       |
| 9:55 SS5      | 0          | 2.9       |                     | 0.17/17.8                | Caliche                         |         | 4680                 |                       |
| 10:00         | 0.5        | 1.1       |                     | 1.56/18.2                | Caliche                         |         |                      |                       |
| 10:05 SS6     | 0          | 0.7       |                     | 0.48/18.2                | Caliche                         |         |                      |                       |
| 10:10         | 0.5        | 0.7       |                     | 0.47/18.1                | Caliche                         |         |                      |                       |
| 10:15 SS7     | 0          | 0.7       |                     | 2.09/18.0                | Caliche                         |         |                      |                       |
| 10:20         | 0.5        | 0.6       |                     | 5.41/18.6                | Caliche                         |         |                      |                       |
| 10:40 SS4.1   | 0          | 19.5      |                     | 0.17/17.8                | Sand                            |         |                      |                       |
| 10:45         | 0.5        | 297.1     |                     | 1.39/17.9                | Sand                            |         |                      |                       |
| 10:50 SS1.1   | 0          |           |                     | 0.73/19.0                | Caliche                         |         |                      |                       |
| 10:55         | 0.5        |           |                     | 1.72/18.8                | Sand                            |         |                      |                       |
| 11:00 SS5.1   | 0          |           |                     | 0.25/18.8                | Caliche                         |         |                      |                       |
| 11:05         | 0.5        |           |                     | 0.76/18.6                | Caliche                         |         |                      |                       |
| 11:10 SS7     | 0          |           |                     | 1.88/18.6                | Caliche                         |         |                      |                       |
| 11:15         | 0.5        |           |                     | 4.84/19.1                | Mix to wellhead                 |         |                      |                       |

## Daily Site Visit Report



## Daily Site Visit Report



### Summary of Daily Operations

- 9:23** White line area for 811 call with flags and marker paint
- 10:08** Initial site characterization and assessment. Spill footprint is very apparent on the pad area not a very large area covered. Delineation vertically and horizontally to determine length width and depth of spill
- 10:39** On surface sample 4 pid is coming back high at 6 inches Looks like a fresh right of way was done for a pipeline and possibly have mixed in part of spill into turned up dirt pushed around in right of way. All other surface samples to delineate horizontally are clean on pid but chlorides seem to be high
- 13:15** Five boreholes to delineate vertically across spill area. Digging to two foot field screening for chlorides first then making decision on which to run petroflag. All field screens show clean up at 0.5 inches but sending 1 ft samples to lab on hold.

### Next Steps & Recommendations

- 1** Wait for lab analysis to come back
- 2** Await for plan on remediation
- 3** 0.5 inch scrape suggested for clean up

## Daily Site Visit Report



## Site Photos

Viewing Direction: West



Spill area from east side of pad

Viewing Direction: West



Spill near wellhead

Viewing Direction: East



Spill area from wellhead to east side of pad

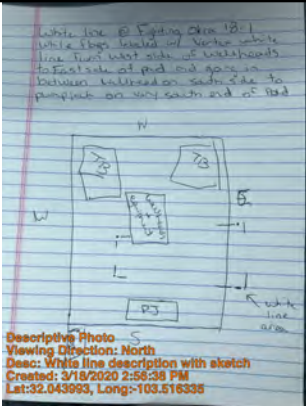
Viewing Direction: North



Spill area from south side of pad to wellhead



## Daily Site Visit Report

|                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Viewing Direction: North</b></p>  <p><b>Descriptive Photo</b><br/> <b>Viewing Direction:</b> North<br/> <b>Desc:</b> White line description with sketch<br/> <b>Created:</b> 3/18/2020 2:58:38 PM<br/> <b>Lat:</b> 32.043993, <b>Long:</b> -103.516335</p>          | <p><b>Viewing Direction: North</b></p>  <p><b>Descriptive Photo</b><br/> <b>Viewing Direction:</b> North<br/> <b>Desc:</b> Boreholes 2 and 3 within spill area<br/> <b>Created:</b> 3/18/2020 2:59:19 PM<br/> <b>Lat:</b> 32.043972, <b>Long:</b> -103.516378</p> |
| <p>White line description with sketch</p>                                                                                                                                                                                                                                                                                                                  | <p>Boreholes 2 and 3 within spill area</p>                                                                                                                                                                                                                                                                                                           |
| <p><b>Viewing Direction: East</b></p>  <p><b>Descriptive Photo</b><br/> <b>Viewing Direction:</b> East<br/> <b>Desc:</b> Boreholes 4 and 5 with surface samples 3,4,5<br/> <b>Created:</b> 3/18/2020 2:59:15 PM<br/> <b>Lat:</b> 32.043972, <b>Long:</b> -103.516414</p> | <p><b>Viewing Direction: North</b></p>  <p><b>Descriptive Photo</b><br/> <b>Viewing Direction:</b> North<br/> <b>Desc:</b> Surface sample 2 and borehole 1<br/> <b>Created:</b> 3/18/2020 2:59:15 PM<br/> <b>Lat:</b> 32.043993, <b>Long:</b> -103.516443</p>    |
| <p>Boreholes 4 and 5 with surface samples 3,4,5</p>                                                                                                                                                                                                                                                                                                        | <p>Surface sample 2 and borehole 1</p>                                                                                                                                                                                                                                                                                                               |

## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Monica Peppin

**Signature:**



## Daily Site Visit Report

|                         |                               |                   |                   |
|-------------------------|-------------------------------|-------------------|-------------------|
| Client:                 | Devon Energy Corporation      | Inspection Date:  | 6/10/2020         |
| Site Location Name:     | Fighting Okra 18 Fed Com 001H | Report Run Date:  | 6/11/2020 6:13 PM |
| Project Owner:          |                               | File (Project) #: |                   |
| Project Manager:        |                               | API #:            | 30-025-40382      |
| Client Contact Name:    | Amanda Davis                  | Reference         |                   |
| Client Contact Phone #: | (575) 748-0176                |                   |                   |

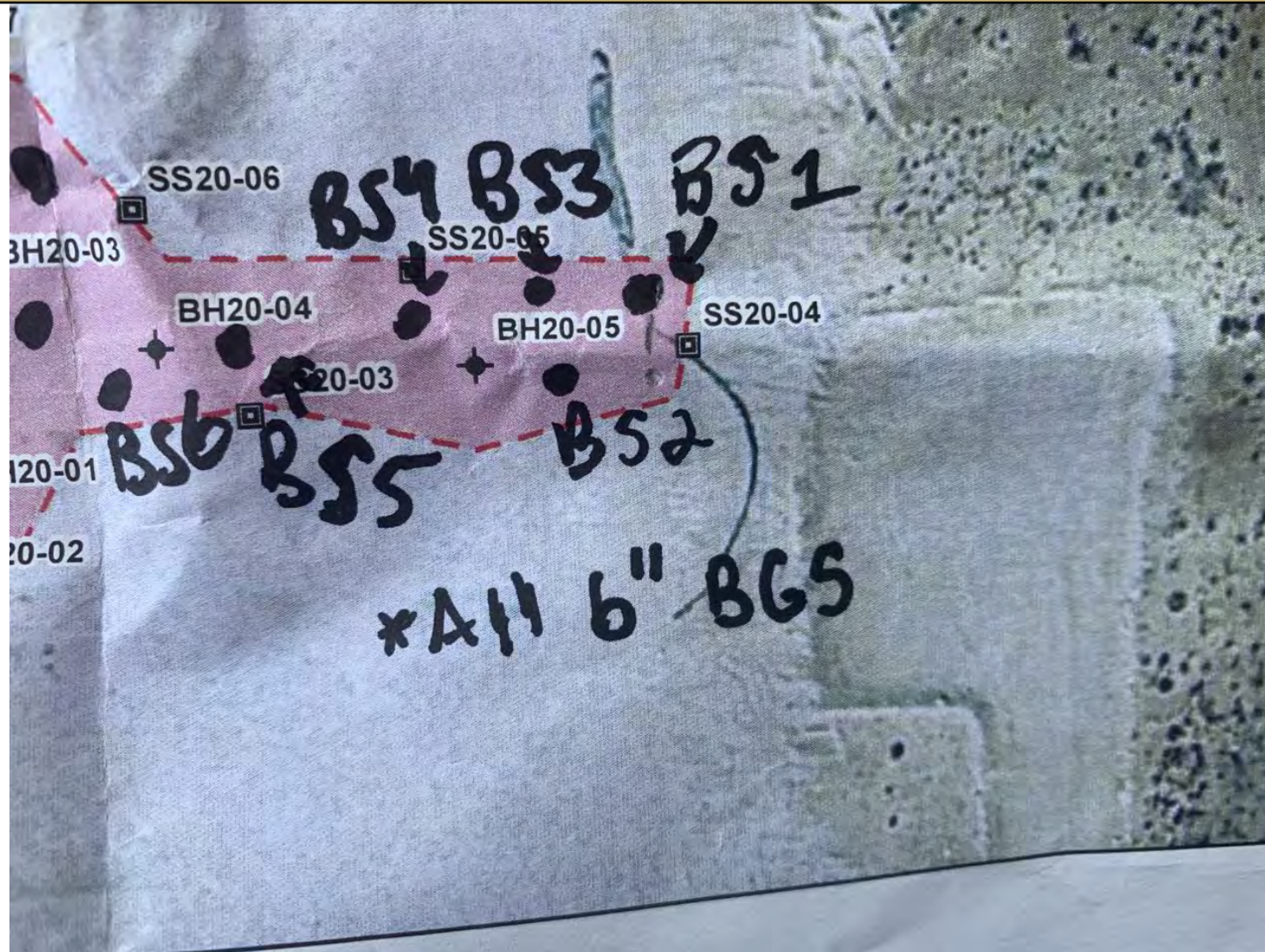
### Summary of Times

|                    |                   |
|--------------------|-------------------|
| Left Office        | 6/10/2020 7:25 AM |
| Arrived at Site    | 6/10/2020 8:44 AM |
| Departed Site      | 6/10/2020 5:21 PM |
| Returned to Office | 6/10/2020 6:38 PM |

## Daily Site Visit Report



### Site Sketch



# Daily Site Visit Report



## Summary of Daily Operations

**11:26** Guide remediation activity (Wildwest) by collecting field screens throughout exaction of soil to ensure below NMOCD standards.

## Next Steps & Recommendations

- 1 Continue excavation tomorrow approximately 6" below ground surface.
- 2 Collect confirmatory samples when excavation is final.
- 3 Submit samples for lab analysis.

## Sampling

### ES-Base20-01

| Depth ft | VOC PID | Petro Flag TPH ppm | Quantab Range ppm | Quantab Reading ppm | Lab Analysis | Picture | Trimble Location | Marked On Site Sketch? |
|----------|---------|--------------------|-------------------|---------------------|--------------|---------|------------------|------------------------|
| 0.5 ft.  | 14 ppm  | 36 ppm             | Low (30-600 ppm)  | 180 ppm             |              |         | ,                | Yes                    |

### ES-Base20-02

| Depth ft | VOC PID | Petro Flag TPH ppm | Quantab Range ppm | Quantab Reading ppm | Lab Analysis | Picture | Trimble Location | Marked On Site Sketch? |
|----------|---------|--------------------|-------------------|---------------------|--------------|---------|------------------|------------------------|
| 0.5 ft.  | 27 ppm  | 26 ppm             | Low (30-600 ppm)  | 120 ppm             |              |         | ,                | Yes                    |

### ES-Base20-03

| Depth ft | VOC PID | Petro Flag TPH ppm | Quantab Range ppm | Quantab Reading ppm | Lab Analysis | Picture | Trimble Location | Marked On Site Sketch? |
|----------|---------|--------------------|-------------------|---------------------|--------------|---------|------------------|------------------------|
| 0.5 ft.  | 8 ppm   |                    | Low (30-600 ppm)  | 80 ppm              |              |         | ,                | Yes                    |



## Daily Site Visit Report

| ES-Base20-04 |          |         |                    |                   |                     |              |                                                                                     |                  |                        |
|--------------|----------|---------|--------------------|-------------------|---------------------|--------------|-------------------------------------------------------------------------------------|------------------|------------------------|
|              | Depth ft | VOC PID | Petro Flag TPH ppm | Quantab Range ppm | Quantab Reading ppm | Lab Analysis | Picture                                                                             | Trimble Location | Marked On Site Sketch? |
|              | 0.5 ft.  |         |                    | Low (30-600 ppm)  | 90 ppm              |              |  | ,                | Yes                    |
|              | 0.5 ft.  | 19 ppm  | 20 ppm             | Low (30-600 ppm)  | 200 ppm             |              |  | ,                | Yes                    |
| ES-Base20-06 |          |         |                    |                   |                     |              |                                                                                     |                  |                        |
|              | Depth ft | VOC PID | Petro Flag TPH ppm | Quantab Range ppm | Quantab Reading ppm | Lab Analysis | Picture                                                                             | Trimble Location | Marked On Site Sketch? |
|              | 0.5 ft.  | 12 ppm  |                    | Low (30-600 ppm)  | 100 ppm             |              |  | ,                | Yes                    |

## Daily Site Visit Report



## Site Photos

## Viewing Direction: South

Date & Time: Wed Jun 10 09:12:14 MDT 2020  
 Position: +032.04448° / -103.51641°  
 Altitude: 3351ft  
 Datum: WGS-84  
 Azimuth/Bearing: 238° 58'58" 238mils (True)  
 Zoom: 1x



Descriptive Photo  
 Viewing Direction: South  
 Desc: Impacted area prior to excavation  
 Created: 8/11/2020 11:08:18 AM  
 Lat:32.04448, Long:-103.51641

Impacted area prior to excavation

## Viewing Direction: East

Date & Time: Wed Jun 10 09:12:30 MDT 2020  
 Position: +032.04413° / -103.51639°  
 Altitude: 3364ft  
 Datum: WGS-84  
 Azimuth/Bearing: 122° 58'58" 218mils (True)  
 Zoom: 1x



Descriptive Photo  
 Viewing Direction: East  
 Desc: Impacted area prior to excavation  
 Created: 8/11/2020 11:08:51 AM  
 Lat:32.04413, Long:-103.51639

Impacted area prior to excavation

## Viewing Direction: South

Date & Time: Wed Jun 10 09:12:34 MDT 2020  
 Position: +032.04412° / -103.51637°  
 Altitude: 3364ft  
 Datum: WGS-84  
 Azimuth/Bearing: 107° 58'58" 238mils (True)  
 Zoom: 1x



Descriptive Photo  
 Viewing Direction: South  
 Desc: Impacted area prior to excavation  
 Created: 8/11/2020 11:08:51 AM  
 Lat:32.04412, Long:-103.51637

Impacted area prior to excavation

## Viewing Direction: Southwest

Date & Time: Wed Jun 10 09:12:34 MDT 2020  
 Position: +032.04413° / -103.51636°  
 Altitude: 3363ft  
 Datum: WGS-84  
 Azimuth/Bearing: 322° 58'58" 972mils (True)  
 Zoom: 1x



Descriptive Photo  
 Viewing Direction: Southwest  
 Desc: Impacted area prior to excavation  
 Created: 8/11/2020 11:01:07 AM  
 Lat:32.04413, Long:-103.51636

Impacted area prior to excavation



## Daily Site Visit Report

### Viewing Direction: Southeast



Remediation in progress

### Viewing Direction: Southeast



Remediation in progress

### Viewing Direction: Southwest



Remediation in progress

## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Kevin Smith

**Signature:**

## **ATTACHMENT 6**

**Natalie Gordon**

---

**From:** Dhugal Hanton <vertexresourcegroupusa@gmail.com>  
**Sent:** Monday, June 8, 2020 9:10 AM  
**To:** Natalie Gordon  
**Subject:** Fwd: NRM2005653696: Fighting Okra 18 Fed Com 1H 48-hr Notification of Confirmatory Sampling

----- Forwarded message -----

From: **Dhugal Hanton** <[vertexresourcegroupusa@gmail.com](mailto:vertexresourcegroupusa@gmail.com)>  
Date: Mon, Jun 8, 2020 at 9:09 AM  
Subject: NRM2005653696: Fighting Okra 18 Fed Com 1H 48-hr Notification of Confirmatory Sampling  
To: Bratcher, Mike, EMNRD <[Mike.Bratcher@state.nm.us](mailto:Mike.Bratcher@state.nm.us)>, EMNRD-OCD-District1spills <[emnrd-ocd-district1spills@state.nm.us](mailto:emnrd-ocd-district1spills@state.nm.us)>, CFO\_Spill, BLM\_NM <[blm\\_nm\\_cfo\\_spill@blm.gov](mailto:blm_nm_cfo_spill@blm.gov)>, Amos, James A <[Jamos@blm.gov](mailto:Jamos@blm.gov)>, Kelsey <[KWade@blm.gov](mailto:KWade@blm.gov)>, Venegas, Victoria, EMNRD <[Victoria.Venegas@state.nm.us](mailto:Victoria.Venegas@state.nm.us)>, Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>  
Cc: <[Lupe.Carrasco@dvn.com](mailto:Lupe.Carrasco@dvn.com)>, <[wesley.mathews@dvn.com](mailto:wesley.mathews@dvn.com)>, <[tom.bynum@dvn.com](mailto:tom.bynum@dvn.com)>, <[amanda.davis@dvn.com](mailto:amanda.davis@dvn.com)>

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled remediation fieldwork and confirmatory sampling to be conducted at Fighting Okra 18 Fed Com 1H for the release that occurred on February 24, 2020, incident tracking #: NRM2005653696.

This work will be completed on behalf of Devon Energy Production Company.

On Tuesday, June 9, 2020 at approximately 9:00 a.m., remediation will begin at the Fighting Okra 18 Fed Com 1H site and is expected to last approximately 2-3 days. Monica Peppin of Vertex will be onsite to guide remediation efforts. Following sufficient progress of the remediation fieldwork, Monica will begin confirmatory sampling.

Confirmatory sampling is expected to begin at approximately 9:00 am on Wednesday, June 10, 2020 and may continue in conjunction with remediation fieldwork through Thursday, June 11, 2020. Monica can be reached at 575-361-9880. If you need directions to the site, please do not hesitate to contact her. If you have any questions or concerns regarding this notification or the attached sample plan, please give me a call at 505-506-0040.

Thank you,  
Natalie

**Natalie Gordon**  
Project Manager

Vertex Resource Group Ltd.  
213 S. Mesa Street  
Carlsbad, NM 88220

**P 575.725.5001 ext 709**

**C 505.506.0040**

**F**

[www.vertex.ca](http://www.vertex.ca)

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## **ATTACHMENT 7**



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

March 27, 2020

Amanda Davis  
Devon Energy  
6488 Seven Rivers Highway  
Artesia, NM 88210  
TEL: (575) 748-0176  
FAX:

RE: Fighting Okra 18 Fed Com 1h

OrderNo.: 2003960

Dear Amanda Davis:

Hall Environmental Analysis Laboratory received 12 sample(s) on 3/20/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**Lab Order **2003960**Date Reported: **3/27/2020****CLIENT:** Devon Energy**Client Sample ID:** BH20-01 0'**Project:** Fighting Okra 18 Fed Com 1h**Collection Date:** 3/18/2020 12:30:00 PM**Lab ID:** 2003960-001**Matrix:** SOIL**Received Date:** 3/20/2020 8:10:00 AM

| <b>Analyses</b>                                  | <b>Result</b> | <b>RL</b> | <b>Qual</b> | <b>Units</b> | <b>DF</b> | <b>Date Analyzed</b>  |
|--------------------------------------------------|---------------|-----------|-------------|--------------|-----------|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |               |           |             |              |           | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | 630           | 480       |             | mg/Kg        | 50        | 3/26/2020 10:46:13 AM |
| Motor Oil Range Organics (MRO)                   | 14000         | 2400      |             | mg/Kg        | 50        | 3/26/2020 10:46:13 AM |
| Surr: DNOP                                       | 0             | 55.1-146  | S           | %Rec         | 50        | 3/26/2020 10:46:13 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |               |           |             |              |           | Analyst: <b>JMT</b>   |
| Chloride                                         | 290           | 60        |             | mg/Kg        | 20        | 3/25/2020 7:57:13 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |               |           |             |              |           | Analyst: <b>JMR</b>   |
| Benzene                                          | ND            | 0.024     |             | mg/Kg        | 1         | 3/24/2020 4:11:26 PM  |
| Toluene                                          | ND            | 0.047     |             | mg/Kg        | 1         | 3/24/2020 4:11:26 PM  |
| Ethylbenzene                                     | ND            | 0.047     |             | mg/Kg        | 1         | 3/24/2020 4:11:26 PM  |
| Xylenes, Total                                   | ND            | 0.095     |             | mg/Kg        | 1         | 3/24/2020 4:11:26 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 83.7          | 70-130    |             | %Rec         | 1         | 3/24/2020 4:11:26 PM  |
| Surr: 4-Bromofluorobenzene                       | 94.4          | 70-130    |             | %Rec         | 1         | 3/24/2020 4:11:26 PM  |
| Surr: Dibromofluoromethane                       | 96.4          | 70-130    |             | %Rec         | 1         | 3/24/2020 4:11:26 PM  |
| Surr: Toluene-d8                                 | 99.8          | 70-130    |             | %Rec         | 1         | 3/24/2020 4:11:26 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |               |           |             |              |           | Analyst: <b>JMR</b>   |
| Gasoline Range Organics (GRO)                    | ND            | 4.7       |             | mg/Kg        | 1         | 3/24/2020 4:11:26 PM  |
| Surr: BFB                                        | 99.7          | 70-130    |             | %Rec         | 1         | 3/24/2020 4:11:26 PM  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |

## Analytical Report

Lab Order 2003960

Date Reported: 3/27/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH20-01 0.5'

Project: Fighting Okra 18 Fed Com 1h

Collection Date: 3/18/2020 12:35:00 PM

Lab ID: 2003960-002

Matrix: SOIL

Received Date: 3/20/2020 8:10:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.4      |      | mg/Kg | 1  | 3/25/2020 12:51:35 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 3/25/2020 12:51:35 PM |
| Surr: DNOP                                       | 105    | 55.1-146 |      | %Rec  | 1  | 3/25/2020 12:51:35 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 770    | 60       |      | mg/Kg | 20 | 3/25/2020 8:09:33 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>JMR</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 3/24/2020 5:37:15 PM  |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 3/24/2020 5:37:15 PM  |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 3/24/2020 5:37:15 PM  |
| Xylenes, Total                                   | ND     | 0.094    |      | mg/Kg | 1  | 3/24/2020 5:37:15 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 87.7   | 70-130   |      | %Rec  | 1  | 3/24/2020 5:37:15 PM  |
| Surr: 4-Bromofluorobenzene                       | 101    | 70-130   |      | %Rec  | 1  | 3/24/2020 5:37:15 PM  |
| Surr: Dibromofluoromethane                       | 99.8   | 70-130   |      | %Rec  | 1  | 3/24/2020 5:37:15 PM  |
| Surr: Toluene-d8                                 | 96.0   | 70-130   |      | %Rec  | 1  | 3/24/2020 5:37:15 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>JMR</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 3/24/2020 5:37:15 PM  |
| Surr: BFB                                        | 102    | 70-130   |      | %Rec  | 1  | 3/24/2020 5:37:15 PM  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**Lab Order **2003960**Date Reported: **3/27/2020****CLIENT:** Devon Energy**Client Sample ID:** BH20-03 0'**Project:** Fighting Okra 18 Fed Com 1h**Collection Date:** 3/18/2020 1:20:00 PM**Lab ID:** 2003960-004**Matrix:** SOIL**Received Date:** 3/20/2020 8:10:00 AM

| <b>Analyses</b>                                  | <b>Result</b> | <b>RL</b> | <b>Qual</b> | <b>Units</b> | <b>DF</b> | <b>Date Analyzed</b> |
|--------------------------------------------------|---------------|-----------|-------------|--------------|-----------|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |               |           |             |              |           | Analyst: <b>BRM</b>  |
| Diesel Range Organics (DRO)                      | 4900          | 96        |             | mg/Kg        | 10        | 3/24/2020 3:35:10 PM |
| Motor Oil Range Organics (MRO)                   | 2600          | 480       |             | mg/Kg        | 10        | 3/24/2020 3:35:10 PM |
| Surr: DNOP                                       | 0             | 55.1-146  | S           | %Rec         | 10        | 3/24/2020 3:35:10 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |               |           |             |              |           | Analyst: <b>JMT</b>  |
| Chloride                                         | 200           | 60        |             | mg/Kg        | 20        | 3/25/2020 8:21:54 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |               |           |             |              |           | Analyst: <b>JMR</b>  |
| Benzene                                          | ND            | 0.024     |             | mg/Kg        | 1         | 3/24/2020 7:02:37 PM |
| Toluene                                          | ND            | 0.048     |             | mg/Kg        | 1         | 3/24/2020 7:02:37 PM |
| Ethylbenzene                                     | ND            | 0.048     |             | mg/Kg        | 1         | 3/24/2020 7:02:37 PM |
| Xylenes, Total                                   | ND            | 0.095     |             | mg/Kg        | 1         | 3/24/2020 7:02:37 PM |
| Surr: 1,2-Dichloroethane-d4                      | 90.5          | 70-130    |             | %Rec         | 1         | 3/24/2020 7:02:37 PM |
| Surr: 4-Bromofluorobenzene                       | 79.0          | 70-130    |             | %Rec         | 1         | 3/24/2020 7:02:37 PM |
| Surr: Dibromofluoromethane                       | 99.8          | 70-130    |             | %Rec         | 1         | 3/24/2020 7:02:37 PM |
| Surr: Toluene-d8                                 | 95.7          | 70-130    |             | %Rec         | 1         | 3/24/2020 7:02:37 PM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |               |           |             |              |           | Analyst: <b>JMR</b>  |
| Gasoline Range Organics (GRO)                    | ND            | 4.8       |             | mg/Kg        | 1         | 3/24/2020 7:02:37 PM |
| Surr: BFB                                        | 105           | 70-130    |             | %Rec         | 1         | 3/24/2020 7:02:37 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |

## Analytical Report

Lab Order 2003960

Date Reported: 3/27/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH20-03 0.5'

Project: Fighting Okra 18 Fed Com 1h

Collection Date: 3/18/2020 1:25:00 PM

Lab ID: 2003960-005

Matrix: SOIL

Received Date: 3/20/2020 8:10:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>  |
| Diesel Range Organics (DRO)                      | 38     | 9.8      |      | mg/Kg | 1  | 3/24/2020 3:59:37 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 3/24/2020 3:59:37 PM |
| Surr: DNOP                                       | 102    | 55.1-146 |      | %Rec  | 1  | 3/24/2020 3:59:37 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 590    | 60       |      | mg/Kg | 20 | 3/25/2020 8:34:14 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>JMR</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 3/24/2020 7:31:13 PM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 3/24/2020 7:31:13 PM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 3/24/2020 7:31:13 PM |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 3/24/2020 7:31:13 PM |
| Surr: 1,2-Dichloroethane-d4                      | 89.9   | 70-130   |      | %Rec  | 1  | 3/24/2020 7:31:13 PM |
| Surr: 4-Bromofluorobenzene                       | 93.6   | 70-130   |      | %Rec  | 1  | 3/24/2020 7:31:13 PM |
| Surr: Dibromofluoromethane                       | 96.6   | 70-130   |      | %Rec  | 1  | 3/24/2020 7:31:13 PM |
| Surr: Toluene-d8                                 | 101    | 70-130   |      | %Rec  | 1  | 3/24/2020 7:31:13 PM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>JMR</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 3/24/2020 7:31:13 PM |
| Surr: BFB                                        | 107    | 70-130   |      | %Rec  | 1  | 3/24/2020 7:31:13 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**Lab Order **2003960**Date Reported: **3/27/2020****CLIENT:** Devon Energy**Client Sample ID:** BH20-05 0'**Project:** Fighting Okra 18 Fed Com 1h**Collection Date:** 3/18/2020 1:55:00 PM**Lab ID:** 2003960-007**Matrix:** SOIL**Received Date:** 3/20/2020 8:10:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>  |
| Diesel Range Organics (DRO)                      | 7500   | 99       |      | mg/Kg | 10 | 3/24/2020 4:24:03 PM |
| Motor Oil Range Organics (MRO)                   | 3800   | 490      |      | mg/Kg | 10 | 3/24/2020 4:24:03 PM |
| Surr: DNOP                                       | 0      | 55.1-146 | S    | %Rec  | 10 | 3/24/2020 4:24:03 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 1400   | 60       |      | mg/Kg | 20 | 3/25/2020 9:36:00 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>JMR</b>  |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 3/24/2020 7:59:44 PM |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 3/24/2020 7:59:44 PM |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 3/24/2020 7:59:44 PM |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 3/24/2020 7:59:44 PM |
| Surr: 1,2-Dichloroethane-d4                      | 91.4   | 70-130   |      | %Rec  | 1  | 3/24/2020 7:59:44 PM |
| Surr: 4-Bromofluorobenzene                       | 84.1   | 70-130   |      | %Rec  | 1  | 3/24/2020 7:59:44 PM |
| Surr: Dibromofluoromethane                       | 94.7   | 70-130   |      | %Rec  | 1  | 3/24/2020 7:59:44 PM |
| Surr: Toluene-d8                                 | 97.4   | 70-130   |      | %Rec  | 1  | 3/24/2020 7:59:44 PM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>JMR</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 3/24/2020 7:59:44 PM |
| Surr: BFB                                        | 99.6   | 70-130   |      | %Rec  | 1  | 3/24/2020 7:59:44 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**Lab Order **2003960**Date Reported: **3/27/2020****CLIENT:** Devon Energy**Client Sample ID:** BH20-05 0.5'**Project:** Fighting Okra 18 Fed Com 1h**Collection Date:** 3/18/2020 2:00:00 PM**Lab ID:** 2003960-008**Matrix:** SOIL**Received Date:** 3/20/2020 8:10:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.9      |      | mg/Kg | 1  | 3/24/2020 4:48:38 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 3/24/2020 4:48:38 PM  |
| Surr: DNOP                                       | 103    | 55.1-146 |      | %Rec  | 1  | 3/24/2020 4:48:38 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 4200   | 150      |      | mg/Kg | 50 | 3/26/2020 12:18:33 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>JMR</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 3/24/2020 8:28:12 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 3/24/2020 8:28:12 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 3/24/2020 8:28:12 PM  |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 3/24/2020 8:28:12 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 80.6   | 70-130   |      | %Rec  | 1  | 3/24/2020 8:28:12 PM  |
| Surr: 4-Bromofluorobenzene                       | 94.4   | 70-130   |      | %Rec  | 1  | 3/24/2020 8:28:12 PM  |
| Surr: Dibromofluoromethane                       | 95.4   | 70-130   |      | %Rec  | 1  | 3/24/2020 8:28:12 PM  |
| Surr: Toluene-d8                                 | 102    | 70-130   |      | %Rec  | 1  | 3/24/2020 8:28:12 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>RAA</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 3/25/2020 1:36:01 PM  |
| Surr: BFB                                        | 101    | 70-130   |      | %Rec  | 1  | 3/25/2020 1:36:01 PM  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**Lab Order **2003960**Date Reported: **3/27/2020****CLIENT:** Devon Energy**Client Sample ID:** SS20-02 0'**Project:** Fighting Okra 18 Fed Com 1h**Collection Date:** 3/18/2020 9:25:00 AM**Lab ID:** 2003960-010**Matrix:** SOIL**Received Date:** 3/20/2020 8:10:00 AM

| <b>Analyses</b>                                  | <b>Result</b> | <b>RL</b> | <b>Qual</b> | <b>Units</b> | <b>DF</b> | <b>Date Analyzed</b>  |
|--------------------------------------------------|---------------|-----------|-------------|--------------|-----------|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |               |           |             |              |           | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | 13            | 10        |             | mg/Kg        | 1         | 3/24/2020 5:13:07 PM  |
| Motor Oil Range Organics (MRO)                   | 55            | 50        |             | mg/Kg        | 1         | 3/24/2020 5:13:07 PM  |
| Surr: DNOP                                       | 104           | 55.1-146  |             | %Rec         | 1         | 3/24/2020 5:13:07 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |               |           |             |              |           | Analyst: <b>JMT</b>   |
| Chloride                                         | 300           | 60        |             | mg/Kg        | 20        | 3/25/2020 10:00:42 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |               |           |             |              |           | Analyst: <b>JMR</b>   |
| Benzene                                          | ND            | 0.024     |             | mg/Kg        | 1         | 3/24/2020 8:56:46 PM  |
| Toluene                                          | ND            | 0.048     |             | mg/Kg        | 1         | 3/24/2020 8:56:46 PM  |
| Ethylbenzene                                     | ND            | 0.048     |             | mg/Kg        | 1         | 3/24/2020 8:56:46 PM  |
| Xylenes, Total                                   | ND            | 0.097     |             | mg/Kg        | 1         | 3/24/2020 8:56:46 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 81.5          | 70-130    |             | %Rec         | 1         | 3/24/2020 8:56:46 PM  |
| Surr: 4-Bromofluorobenzene                       | 95.5          | 70-130    |             | %Rec         | 1         | 3/24/2020 8:56:46 PM  |
| Surr: Dibromofluoromethane                       | 96.3          | 70-130    |             | %Rec         | 1         | 3/24/2020 8:56:46 PM  |
| Surr: Toluene-d8                                 | 97.2          | 70-130    |             | %Rec         | 1         | 3/24/2020 8:56:46 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |               |           |             |              |           | Analyst: <b>JMR</b>   |
| Gasoline Range Organics (GRO)                    | ND            | 4.8       |             | mg/Kg        | 1         | 3/24/2020 8:56:46 PM  |
| Surr: BFB                                        | 102           | 70-130    |             | %Rec         | 1         | 3/24/2020 8:56:46 PM  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**Lab Order **2003960**Date Reported: **3/27/2020****CLIENT:** Devon Energy**Client Sample ID:** SS20-04 0'**Project:** Fighting Okra 18 Fed Com 1h**Collection Date:** 3/18/2020 10:40:00 AM**Lab ID:** 2003960-011**Matrix:** SOIL**Received Date:** 3/20/2020 8:10:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | 120    | 9.8      |      | mg/Kg | 1  | 3/24/2020 5:37:34 PM  |
| Motor Oil Range Organics (MRO)                   | 190    | 49       |      | mg/Kg | 1  | 3/24/2020 5:37:34 PM  |
| Surr: DNOP                                       | 99.8   | 55.1-146 |      | %Rec  | 1  | 3/24/2020 5:37:34 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 140    | 60       |      | mg/Kg | 20 | 3/25/2020 10:13:02 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>JMR</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 3/24/2020 9:25:23 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 3/24/2020 9:25:23 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 3/24/2020 9:25:23 PM  |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 3/24/2020 9:25:23 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 84.3   | 70-130   |      | %Rec  | 1  | 3/24/2020 9:25:23 PM  |
| Surr: 4-Bromofluorobenzene                       | 94.2   | 70-130   |      | %Rec  | 1  | 3/24/2020 9:25:23 PM  |
| Surr: Dibromofluoromethane                       | 97.9   | 70-130   |      | %Rec  | 1  | 3/24/2020 9:25:23 PM  |
| Surr: Toluene-d8                                 | 95.2   | 70-130   |      | %Rec  | 1  | 3/24/2020 9:25:23 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>JMR</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 3/24/2020 9:25:23 PM  |
| Surr: BFB                                        | 99.9   | 70-130   |      | %Rec  | 1  | 3/24/2020 9:25:23 PM  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

## Analytical Report

Lab Order 2003960

Date Reported: 3/27/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: SS20-06 0'

Project: Fighting Okra 18 Fed Com 1h

Collection Date: 3/18/2020 10:05:00 AM

Lab ID: 2003960-012

Matrix: SOIL

Received Date: 3/20/2020 8:10:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | 1600   | 200      |      | mg/Kg | 20 | 3/25/2020 1:15:40 PM  |
| Motor Oil Range Organics (MRO)                   | 2900   | 980      |      | mg/Kg | 20 | 3/25/2020 1:15:40 PM  |
| Surr: DNOP                                       | 0      | 55.1-146 | S    | %Rec  | 20 | 3/25/2020 1:15:40 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 480    | 60       |      | mg/Kg | 20 | 3/25/2020 10:25:23 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>JMR</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 3/25/2020 12:17:29 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 3/25/2020 12:17:29 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 3/25/2020 12:17:29 AM |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 3/25/2020 12:17:29 AM |
| Surr: 1,2-Dichloroethane-d4                      | 83.2   | 70-130   |      | %Rec  | 1  | 3/25/2020 12:17:29 AM |
| Surr: 4-Bromofluorobenzene                       | 97.7   | 70-130   |      | %Rec  | 1  | 3/25/2020 12:17:29 AM |
| Surr: Dibromofluoromethane                       | 100    | 70-130   |      | %Rec  | 1  | 3/25/2020 12:17:29 AM |
| Surr: Toluene-d8                                 | 101    | 70-130   |      | %Rec  | 1  | 3/25/2020 12:17:29 AM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>JMR</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 3/25/2020 12:17:29 AM |
| Surr: BFB                                        | 102    | 70-130   |      | %Rec  | 1  | 3/25/2020 12:17:29 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2003960  
27-Mar-20

Client: Devon Energy  
Project: Fighting Okra 18 Fed Com 1h

|                      |        |                          |           |                                    |      |              |           |      |          |      |
|----------------------|--------|--------------------------|-----------|------------------------------------|------|--------------|-----------|------|----------|------|
| Sample ID: MB-51329  |        | SampType: mblk           |           | TestCode: EPA Method 300.0: Anions |      |              |           |      |          |      |
| Client ID: PBS       |        | Batch ID: 51329          |           | RunNo: 67561                       |      |              |           |      |          |      |
| Prep Date: 3/25/2020 |        | Analysis Date: 3/25/2020 |           | SeqNo: 2333079                     |      | Units: mg/Kg |           |      |          |      |
| Analyte              | Result | PQL                      | SPK value | SPK Ref Val                        | %REC | LowLimit     | HighLimit | %RPD | RPDLimit | Qual |
| Chloride             | ND     | 1.5                      |           |                                    |      |              |           |      |          |      |

|                      |        |                          |           |                                    |      |              |           |      |          |      |
|----------------------|--------|--------------------------|-----------|------------------------------------|------|--------------|-----------|------|----------|------|
| Sample ID: LCS-51329 |        | SampType: lcs            |           | TestCode: EPA Method 300.0: Anions |      |              |           |      |          |      |
| Client ID: LCSS      |        | Batch ID: 51329          |           | RunNo: 67561                       |      |              |           |      |          |      |
| Prep Date: 3/25/2020 |        | Analysis Date: 3/25/2020 |           | SeqNo: 2333080                     |      | Units: mg/Kg |           |      |          |      |
| Analyte              | Result | PQL                      | SPK value | SPK Ref Val                        | %REC | LowLimit     | HighLimit | %RPD | RPDLimit | Qual |
| Chloride             | 14     | 1.5                      | 15.00     | 0                                  | 92.3 | 90           | 110       |      |          |      |

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2003960

27-Mar-20

**Client:** Devon Energy**Project:** Fighting Okra 18 Fed Com 1h

| Sample ID: <b>LCS-51268</b> | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|------------------------------------------------------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>51268</b>          |     |           | RunNo: <b>67509</b>                                        |                     |          |           |      |          |      |
| Prep Date: <b>3/23/2020</b> | Analysis Date: <b>3/24/2020</b> |     |           | SeqNo: <b>2331474</b>                                      | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                                | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 48                              | 10  | 50.00     | 0                                                          | 96.8                | 70       | 130       |      |          |      |
| Surr: DNOP                  | 4.2                             |     | 5.000     |                                                            | 85.0                | 55.1     | 146       |      |          |      |

| Sample ID: <b>MB-51268</b>     | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |          |           |      |          |      |
|--------------------------------|---------------------------------|-----|-----------|------------------------------------------------------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>51268</b>          |     |           | RunNo: <b>67509</b>                                        |                     |          |           |      |          |      |
| Prep Date: <b>3/23/2020</b>    | Analysis Date: <b>3/24/2020</b> |     |           | SeqNo: <b>2331475</b>                                      | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                        | Result                          | PQL | SPK value | SPK Ref Val                                                | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)    | ND                              | 10  |           |                                                            |                     |          |           |      |          |      |
| Motor Oil Range Organics (MRO) | ND                              | 50  |           |                                                            |                     |          |           |      |          |      |
| Surr: DNOP                     | 9.5                             |     | 10.00     |                                                            | 95.2                | 55.1     | 146       |      |          |      |

| Sample ID: <b>LCS-51299</b> | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|------------------------------------------------------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>51299</b>          |     |           | RunNo: <b>67548</b>                                        |                    |          |           |      |          |      |
| Prep Date: <b>3/24/2020</b> | Analysis Date: <b>3/25/2020</b> |     |           | SeqNo: <b>2332705</b>                                      | Units: <b>%Rec</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                                | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 5.3                             |     | 5.000     |                                                            | 105                | 55.1     | 146       |      |          |      |

| Sample ID: <b>MB-51299</b>  | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|------------------------------------------------------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>51299</b>          |     |           | RunNo: <b>67548</b>                                        |                    |          |           |      |          |      |
| Prep Date: <b>3/24/2020</b> | Analysis Date: <b>3/25/2020</b> |     |           | SeqNo: <b>2332706</b>                                      | Units: <b>%Rec</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                                | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 11                              |     | 10.00     |                                                            | 113                | 55.1     | 146       |      |          |      |

| Sample ID: <b>LCS-51325</b> | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|------------------------------------------------------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>51325</b>          |     |           | RunNo: <b>67586</b>                                        |                    |          |           |      |          |      |
| Prep Date: <b>3/25/2020</b> | Analysis Date: <b>3/26/2020</b> |     |           | SeqNo: <b>2333835</b>                                      | Units: <b>%Rec</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                                | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 4.3                             |     | 5.000     |                                                            | 85.4               | 55.1     | 146       |      |          |      |

| Sample ID: <b>MB-51325</b>  | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|------------------------------------------------------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>51325</b>          |     |           | RunNo: <b>67586</b>                                        |                    |          |           |      |          |      |
| Prep Date: <b>3/25/2020</b> | Analysis Date: <b>3/26/2020</b> |     |           | SeqNo: <b>2333836</b>                                      | Units: <b>%Rec</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                                | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 9.1                             |     | 10.00     |                                                            | 91.3               | 55.1     | 146       |      |          |      |

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2003960

27-Mar-20

**Client:** Devon Energy**Project:** Fighting Okra 18 Fed Com 1h

| Sample ID: <b>lcs-51265</b> | SampType: <b>LCS</b>            |       | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-------|---------------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>51265</b>          |       | RunNo: <b>67530</b>                                     |             |                     |          |           |      |          |      |
| Prep Date: <b>3/23/2020</b> | Analysis Date: <b>3/24/2020</b> |       | SeqNo: <b>2331070</b>                                   |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL   | SPK value                                               | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.92                            | 0.025 | 1.000                                                   | 0           | 91.9                | 70       | 130       |      |          |      |
| Toluene                     | 1.1                             | 0.050 | 1.000                                                   | 0           | 106                 | 70       | 130       |      |          |      |
| Ethylbenzene                | 1.1                             | 0.050 | 1.000                                                   | 0           | 112                 | 70       | 130       |      |          |      |
| Xylenes, Total              | 3.3                             | 0.10  | 3.000                                                   | 0           | 110                 | 70       | 130       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 0.43                            |       | 0.5000                                                  |             | 85.6                | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.49                            |       | 0.5000                                                  |             | 97.5                | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 0.50                            |       | 0.5000                                                  |             | 99.1                | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 0.51                            |       | 0.5000                                                  |             | 102                 | 70       | 130       |      |          |      |

| Sample ID: <b>mb-51265</b>  | SampType: <b>MBLK</b>           |       | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-------|---------------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>51265</b>          |       | RunNo: <b>67530</b>                                     |             |                     |          |           |      |          |      |
| Prep Date: <b>3/23/2020</b> | Analysis Date: <b>3/24/2020</b> |       | SeqNo: <b>2331071</b>                                   |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL   | SPK value                                               | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | ND                              | 0.025 |                                                         |             |                     |          |           |      |          |      |
| Toluene                     | ND                              | 0.050 |                                                         |             |                     |          |           |      |          |      |
| Ethylbenzene                | ND                              | 0.050 |                                                         |             |                     |          |           |      |          |      |
| Xylenes, Total              | ND                              | 0.10  |                                                         |             |                     |          |           |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 0.44                            |       | 0.5000                                                  |             | 88.8                | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.48                            |       | 0.5000                                                  |             | 96.6                | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 0.47                            |       | 0.5000                                                  |             | 94.8                | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 0.49                            |       | 0.5000                                                  |             | 98.0                | 70       | 130       |      |          |      |

| Sample ID: <b>2003960-001ams</b> | SampType: <b>MS</b>             |       | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |             |                     |          |           |      |          |      |
|----------------------------------|---------------------------------|-------|---------------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>BH20-01 0'</b>     | Batch ID: <b>51265</b>          |       | RunNo: <b>67530</b>                                     |             |                     |          |           |      |          |      |
| Prep Date: <b>3/23/2020</b>      | Analysis Date: <b>3/24/2020</b> |       | SeqNo: <b>2331962</b>                                   |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL   | SPK value                                               | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 0.89                            | 0.023 | 0.9346                                                  | 0           | 95.2                | 70       | 130       |      |          |      |
| Toluene                          | 1.0                             | 0.047 | 0.9346                                                  | 0           | 109                 | 70       | 130       |      |          |      |
| Ethylbenzene                     | 1.1                             | 0.047 | 0.9346                                                  | 0           | 114                 | 70       | 130       |      |          |      |
| Xylenes, Total                   | 3.2                             | 0.093 | 2.804                                                   | 0           | 114                 | 70       | 130       |      |          |      |
| Surr: 1,2-Dichloroethane-d4      | 0.39                            |       | 0.4673                                                  |             | 83.2                | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene       | 0.47                            |       | 0.4673                                                  |             | 101                 | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane       | 0.43                            |       | 0.4673                                                  |             | 92.8                | 70       | 130       |      |          |      |
| Surr: Toluene-d8                 | 0.45                            |       | 0.4673                                                  |             | 97.3                | 70       | 130       |      |          |      |

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2003960

27-Mar-20

**Client:** Devon Energy**Project:** Fighting Okra 18 Fed Com 1h

| Sample ID: 2003960-001amsd  | SampType: MSD            | TestCode: EPA Method 8260B: Volatiles Short List |           |             |      |          |           |      |          |      |
|-----------------------------|--------------------------|--------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BH20-01 0'       | Batch ID: 51265          | RunNo: 67530                                     |           |             |      |          |           |      |          |      |
| Prep Date: 3/23/2020        | Analysis Date: 3/24/2020 | SeqNo: 2331963 Units: mg/Kg                      |           |             |      |          |           |      |          |      |
| Analyte                     | Result                   | PQL                                              | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.90                     | 0.024                                            | 0.9452    | 0           | 95.3 | 70       | 130       | 1.26 | 20       |      |
| Toluene                     | 1.0                      | 0.047                                            | 0.9452    | 0           | 106  | 70       | 130       | 1.68 | 20       |      |
| Ethylbenzene                | 1.1                      | 0.047                                            | 0.9452    | 0           | 111  | 70       | 130       | 1.12 | 0        |      |
| Xylenes, Total              | 3.1                      | 0.095                                            | 2.836     | 0           | 108  | 70       | 130       | 4.25 | 0        |      |
| Surr: 1,2-Dichloroethane-d4 | 0.39                     |                                                  | 0.4726    |             | 82.7 | 70       | 130       | 0    | 0        |      |
| Surr: 4-Bromofluorobenzene  | 0.47                     |                                                  | 0.4726    |             | 99.9 | 70       | 130       | 0    | 0        |      |
| Surr: Dibromofluoromethane  | 0.45                     |                                                  | 0.4726    |             | 96.2 | 70       | 130       | 0    | 0        |      |
| Surr: Toluene-d8            | 0.45                     |                                                  | 0.4726    |             | 95.7 | 70       | 130       | 0    | 0        |      |

| Sample ID: lcs-51277       | SampType: LCS4           | TestCode: EPA Method 8260B: Volatiles Short List |           |             |      |          |           |      |          |      |
|----------------------------|--------------------------|--------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BatchQC         | Batch ID: 51277          | RunNo: 67556                                     |           |             |      |          |           |      |          |      |
| Prep Date: 3/23/2020       | Analysis Date: 3/25/2020 | SeqNo: 2332308 Units: %Rec                       |           |             |      |          |           |      |          |      |
| Analyte                    | Result                   | PQL                                              | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 0.49                     |                                                  | 0.5000    |             | 97.5 | 70       | 130       |      |          |      |
| Surr: Toluene-d8           | 0.47                     |                                                  | 0.5000    |             | 94.2 | 70       | 130       |      |          |      |

| Sample ID: mb-51277         | SampType: MBLK           | TestCode: EPA Method 8260B: Volatiles Short List |           |             |      |          |           |      |          |      |
|-----------------------------|--------------------------|--------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS              | Batch ID: 51277          | RunNo: 67556                                     |           |             |      |          |           |      |          |      |
| Prep Date: 3/23/2020        | Analysis Date: 3/25/2020 | SeqNo: 2332310 Units: %Rec                       |           |             |      |          |           |      |          |      |
| Analyte                     | Result                   | PQL                                              | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 0.45                     |                                                  | 0.5000    |             | 89.1 | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.48                     |                                                  | 0.5000    |             | 96.9 | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 0.48                     |                                                  | 0.5000    |             | 95.5 | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 0.49                     |                                                  | 0.5000    |             | 97.3 | 70       | 130       |      |          |      |

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2003960

27-Mar-20

**Client:** Devon Energy**Project:** Fighting Okra 18 Fed Com 1h

| Sample ID: <b>lcs-51265</b>   | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |      |                     |           |      |          |      |
|-------------------------------|---------------------------------|-----|-----------|-------------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>51265</b>          |     |           | RunNo: <b>67530</b>                                   |      |                     |           |      |          |      |
| Prep Date: <b>3/23/2020</b>   | Analysis Date: <b>3/24/2020</b> |     |           | SeqNo: <b>2331076</b>                                 |      | Units: <b>mg/Kg</b> |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value | SPK Ref Val                                           | %REC | LowLimit            | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 20                              | 5.0 | 25.00     | 0                                                     | 80.3 | 70                  | 130       |      |          |      |
| Surr: BFB                     | 510                             |     | 500.0     |                                                       | 102  | 70                  | 130       |      |          |      |

| Sample ID: <b>mb-51265</b>    | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |      |                     |           |      |          |      |
|-------------------------------|---------------------------------|-----|-----------|-------------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>51265</b>          |     |           | RunNo: <b>67530</b>                                   |      |                     |           |      |          |      |
| Prep Date: <b>3/23/2020</b>   | Analysis Date: <b>3/24/2020</b> |     |           | SeqNo: <b>2331077</b>                                 |      | Units: <b>mg/Kg</b> |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value | SPK Ref Val                                           | %REC | LowLimit            | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                              | 5.0 |           |                                                       |      |                     |           |      |          |      |
| Surr: BFB                     | 490                             |     | 500.0     |                                                       | 98.5 | 70                  | 130       |      |          |      |

| Sample ID: <b>2003960-002ams</b> | SampType: <b>MS</b>             |     |           | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |      |                     |           |      |          |      |
|----------------------------------|---------------------------------|-----|-----------|-------------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Client ID: <b>BH20-01 0.5'</b>   | Batch ID: <b>51265</b>          |     |           | RunNo: <b>67530</b>                                   |      |                     |           |      |          |      |
| Prep Date: <b>3/23/2020</b>      | Analysis Date: <b>3/24/2020</b> |     |           | SeqNo: <b>2331984</b>                                 |      | Units: <b>mg/Kg</b> |           |      |          |      |
| Analyte                          | Result                          | PQL | SPK value | SPK Ref Val                                           | %REC | LowLimit            | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)    | 22                              | 4.8 | 24.15     | 0                                                     | 92.6 | 70                  | 130       |      |          |      |
| Surr: BFB                        | 500                             |     | 483.1     |                                                       | 103  | 70                  | 130       |      |          |      |

| Sample ID: <b>2003960-002amsd</b> | SampType: <b>MSD</b>            |     |           | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |      |                     |           |      |          |      |
|-----------------------------------|---------------------------------|-----|-----------|-------------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Client ID: <b>BH20-01 0.5'</b>    | Batch ID: <b>51265</b>          |     |           | RunNo: <b>67530</b>                                   |      |                     |           |      |          |      |
| Prep Date: <b>3/23/2020</b>       | Analysis Date: <b>3/24/2020</b> |     |           | SeqNo: <b>2331985</b>                                 |      | Units: <b>mg/Kg</b> |           |      |          |      |
| Analyte                           | Result                          | PQL | SPK value | SPK Ref Val                                           | %REC | LowLimit            | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)     | 20                              | 4.6 | 23.08     | 0                                                     | 88.3 | 70                  | 130       | 9.22 | 20       |      |
| Surr: BFB                         | 470                             |     | 461.7     |                                                       | 101  | 70                  | 130       | 0    | 0        |      |

| Sample ID: <b>lcs-51277</b> | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|-------------------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>51277</b>          |     |           | RunNo: <b>67556</b>                                   |      |                    |           |      |          |      |
| Prep Date: <b>3/23/2020</b> | Analysis Date: <b>3/25/2020</b> |     |           | SeqNo: <b>2332351</b>                                 |      | Units: <b>%Rec</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                           | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB                   | 500                             |     | 500.0     |                                                       | 99.8 | 70                 | 130       |      |          |      |

| Sample ID: <b>mb-51277</b>  | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|-------------------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>51277</b>          |     |           | RunNo: <b>67556</b>                                   |      |                    |           |      |          |      |
| Prep Date: <b>3/23/2020</b> | Analysis Date: <b>3/25/2020</b> |     |           | SeqNo: <b>2332359</b>                                 |      | Units: <b>%Rec</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                           | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB                   | 500                             |     | 500.0     |                                                       | 101  | 70                 | 130       |      |          |      |

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit



## Sample Log-In Check List

Client Name: DEVON ENERGY

Work Order Number: 2003960

RcptNo: 1

Received By: Yazmine Garduno

3/20/2020 8:10:00 AM

Yazmine Garduno

Completed By: Desiree Dominguez

3/20/2020 2:07:24 PM

Desiree Dominguez

Reviewed By:

YD 3/20/20

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace  $<1/4"$  for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

(&lt;2 or &gt;12 unless noted)

Adjusted? \_\_\_\_\_

Checked by: JR 3/20/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

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

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

17. Cooler Information

| Cooler No | Temp $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1         | 2.8                     | Good      |             |         |           |           |
| 2         | 4.1                     | Good      |             |         |           |           |
| 3         | 3.4                     | Good      |             |         |           |           |
| 4         | 2.8                     | Good      |             |         |           |           |





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

June 22, 2020

Amanda Davis

Devon Energy

6488 Seven Rivers Highway

Artesia, NM 88210

TEL: (575) 748-0176

FAX:

RE: Fighting Okra 18 Fed Com #001

OrderNo.: 2006700

Dear Amanda Davis:

Hall Environmental Analysis Laboratory received 29 sample(s) on 6/12/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-01 6"

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-001

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.8      |      | mg/Kg | 1  | 6/14/2020 12:36:47 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 6/14/2020 12:36:47 PM |
| Surr: DNOP                                       | 133    | 55.1-146 |      | %Rec  | 1  | 6/14/2020 12:36:47 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>   |
| Chloride                                         | 140    | 60       |      | mg/Kg | 20 | 6/18/2020 1:28:24 AM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 6/13/2020 10:25:21 PM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 6/13/2020 10:25:21 PM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 6/13/2020 10:25:21 PM |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1  | 6/13/2020 10:25:21 PM |
| Surr: 1,2-Dichloroethane-d4                      | 96.3   | 70-130   |      | %Rec  | 1  | 6/13/2020 10:25:21 PM |
| Surr: 4-Bromofluorobenzene                       | 96.8   | 70-130   |      | %Rec  | 1  | 6/13/2020 10:25:21 PM |
| Surr: Dibromofluoromethane                       | 101    | 70-130   |      | %Rec  | 1  | 6/13/2020 10:25:21 PM |
| Surr: Toluene-d8                                 | 102    | 70-130   |      | %Rec  | 1  | 6/13/2020 10:25:21 PM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 6/13/2020 10:25:21 PM |
| Surr: BFB                                        | 106    | 70-130   |      | %Rec  | 1  | 6/13/2020 10:25:21 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-02 6"

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-002

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.2      |      | mg/Kg | 1  | 6/14/2020 12:47:20 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 6/14/2020 12:47:20 PM |
| Surr: DNOP                                       | 137    | 55.1-146 |      | %Rec  | 1  | 6/14/2020 12:47:20 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 190    | 60       |      | mg/Kg | 20 | 6/18/2020 7:02:20 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 6/14/2020 12:48:06 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 6/14/2020 12:48:06 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 6/14/2020 12:48:06 AM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 6/14/2020 12:48:06 AM |
| Surr: 1,2-Dichloroethane-d4                      | 92.8   | 70-130   |      | %Rec  | 1  | 6/14/2020 12:48:06 AM |
| Surr: 4-Bromofluorobenzene                       | 93.8   | 70-130   |      | %Rec  | 1  | 6/14/2020 12:48:06 AM |
| Surr: Dibromofluoromethane                       | 106    | 70-130   |      | %Rec  | 1  | 6/14/2020 12:48:06 AM |
| Surr: Toluene-d8                                 | 96.7   | 70-130   |      | %Rec  | 1  | 6/14/2020 12:48:06 AM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 6/14/2020 12:48:06 AM |
| Surr: BFB                                        | 103    | 70-130   |      | %Rec  | 1  | 6/14/2020 12:48:06 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-03 6"

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-003

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.9      |      | mg/Kg | 1  | 6/14/2020 12:57:52 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 6/14/2020 12:57:52 PM |
| Surr: DNOP                                       | 131    | 55.1-146 |      | %Rec  | 1  | 6/14/2020 12:57:52 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 170    | 60       |      | mg/Kg | 20 | 6/18/2020 7:39:35 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 6/14/2020 1:16:36 AM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 6/14/2020 1:16:36 AM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 6/14/2020 1:16:36 AM  |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 6/14/2020 1:16:36 AM  |
| Surr: 1,2-Dichloroethane-d4                      | 89.9   | 70-130   |      | %Rec  | 1  | 6/14/2020 1:16:36 AM  |
| Surr: 4-Bromofluorobenzene                       | 89.9   | 70-130   |      | %Rec  | 1  | 6/14/2020 1:16:36 AM  |
| Surr: Dibromofluoromethane                       | 106    | 70-130   |      | %Rec  | 1  | 6/14/2020 1:16:36 AM  |
| Surr: Toluene-d8                                 | 99.9   | 70-130   |      | %Rec  | 1  | 6/14/2020 1:16:36 AM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 6/14/2020 1:16:36 AM  |
| Surr: BFB                                        | 95.9   | 70-130   |      | %Rec  | 1  | 6/14/2020 1:16:36 AM  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-04 6"

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-004

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.7      |      | mg/Kg | 1  | 6/14/2020 1:08:27 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 6/14/2020 1:08:27 PM |
| Surr: DNOP                                       | 111    | 55.1-146 |      | %Rec  | 1  | 6/14/2020 1:08:27 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 150    | 60       |      | mg/Kg | 20 | 6/18/2020 4:08:36 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 6/14/2020 1:45:15 AM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 6/14/2020 1:45:15 AM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 6/14/2020 1:45:15 AM |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1  | 6/14/2020 1:45:15 AM |
| Surr: 1,2-Dichloroethane-d4                      | 99.4   | 70-130   |      | %Rec  | 1  | 6/14/2020 1:45:15 AM |
| Surr: 4-Bromofluorobenzene                       | 92.5   | 70-130   |      | %Rec  | 1  | 6/14/2020 1:45:15 AM |
| Surr: Dibromofluoromethane                       | 102    | 70-130   |      | %Rec  | 1  | 6/14/2020 1:45:15 AM |
| Surr: Toluene-d8                                 | 103    | 70-130   |      | %Rec  | 1  | 6/14/2020 1:45:15 AM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 6/14/2020 1:45:15 AM |
| Surr: BFB                                        | 104    | 70-130   |      | %Rec  | 1  | 6/14/2020 1:45:15 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-05 6"

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-005

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.9      |      | mg/Kg | 1  | 6/14/2020 1:18:56 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 6/14/2020 1:18:56 PM |
| Surr: DNOP                                       | 123    | 55.1-146 |      | %Rec  | 1  | 6/14/2020 1:18:56 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 200    | 60       |      | mg/Kg | 20 | 6/18/2020 4:21:00 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 6/14/2020 2:13:51 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 6/14/2020 2:13:51 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 6/14/2020 2:13:51 AM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 6/14/2020 2:13:51 AM |
| Surr: 1,2-Dichloroethane-d4                      | 96.8   | 70-130   |      | %Rec  | 1  | 6/14/2020 2:13:51 AM |
| Surr: 4-Bromofluorobenzene                       | 88.4   | 70-130   |      | %Rec  | 1  | 6/14/2020 2:13:51 AM |
| Surr: Dibromofluoromethane                       | 103    | 70-130   |      | %Rec  | 1  | 6/14/2020 2:13:51 AM |
| Surr: Toluene-d8                                 | 95.6   | 70-130   |      | %Rec  | 1  | 6/14/2020 2:13:51 AM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 6/14/2020 2:13:51 AM |
| Surr: BFB                                        | 96.3   | 70-130   |      | %Rec  | 1  | 6/14/2020 2:13:51 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-06 6"

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-006

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.9      |      | mg/Kg | 1  | 6/14/2020 2:39:29 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 6/14/2020 2:39:29 PM |
| Surr: DNOP                                       | 127    | 55.1-146 |      | %Rec  | 1  | 6/14/2020 2:39:29 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 170    | 60       |      | mg/Kg | 20 | 6/18/2020 4:33:24 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 6/13/2020 7:55:41 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 6/13/2020 7:55:41 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 6/13/2020 7:55:41 PM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 6/13/2020 7:55:41 PM |
| Surr: 1,2-Dichloroethane-d4                      | 95.4   | 70-130   |      | %Rec  | 1  | 6/13/2020 7:55:41 PM |
| Surr: 4-Bromofluorobenzene                       | 96.2   | 70-130   |      | %Rec  | 1  | 6/13/2020 7:55:41 PM |
| Surr: Dibromofluoromethane                       | 97.6   | 70-130   |      | %Rec  | 1  | 6/13/2020 7:55:41 PM |
| Surr: Toluene-d8                                 | 99.4   | 70-130   |      | %Rec  | 1  | 6/13/2020 7:55:41 PM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 6/13/2020 7:55:41 PM |
| Surr: BFB                                        | 104    | 70-130   |      | %Rec  | 1  | 6/13/2020 7:55:41 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-07 6"

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-007

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.2      |      | mg/Kg | 1  | 6/14/2020 3:09:42 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 6/14/2020 3:09:42 PM  |
| Surr: DNOP                                       | 133    | 55.1-146 |      | %Rec  | 1  | 6/14/2020 3:09:42 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 180    | 61       |      | mg/Kg | 20 | 6/18/2020 4:45:49 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 6/13/2020 11:21:16 PM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 6/13/2020 11:21:16 PM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 6/13/2020 11:21:16 PM |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 6/13/2020 11:21:16 PM |
| Surr: 1,2-Dichloroethane-d4                      | 104    | 70-130   |      | %Rec  | 1  | 6/13/2020 11:21:16 PM |
| Surr: 4-Bromofluorobenzene                       | 97.1   | 70-130   |      | %Rec  | 1  | 6/13/2020 11:21:16 PM |
| Surr: Dibromofluoromethane                       | 104    | 70-130   |      | %Rec  | 1  | 6/13/2020 11:21:16 PM |
| Surr: Toluene-d8                                 | 105    | 70-130   |      | %Rec  | 1  | 6/13/2020 11:21:16 PM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 6/13/2020 11:21:16 PM |
| Surr: BFB                                        | 105    | 70-130   |      | %Rec  | 1  | 6/13/2020 11:21:16 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-08 6"

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-008

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.6      |      | mg/Kg | 1  | 6/14/2020 3:19:52 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 6/14/2020 3:19:52 PM  |
| Surr: DNOP                                       | 101    | 55.1-146 |      | %Rec  | 1  | 6/14/2020 3:19:52 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 190    | 60       |      | mg/Kg | 20 | 6/18/2020 4:58:14 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 6/14/2020 12:49:23 AM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 6/14/2020 12:49:23 AM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 6/14/2020 12:49:23 AM |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 6/14/2020 12:49:23 AM |
| Surr: 1,2-Dichloroethane-d4                      | 99.9   | 70-130   |      | %Rec  | 1  | 6/14/2020 12:49:23 AM |
| Surr: 4-Bromofluorobenzene                       | 102    | 70-130   |      | %Rec  | 1  | 6/14/2020 12:49:23 AM |
| Surr: Dibromofluoromethane                       | 103    | 70-130   |      | %Rec  | 1  | 6/14/2020 12:49:23 AM |
| Surr: Toluene-d8                                 | 107    | 70-130   |      | %Rec  | 1  | 6/14/2020 12:49:23 AM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 6/14/2020 12:49:23 AM |
| Surr: BFB                                        | 106    | 70-130   |      | %Rec  | 1  | 6/14/2020 12:49:23 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-09 6"

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-009

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 6/14/2020 3:30:01 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 6/14/2020 3:30:01 PM |
| Surr: DNOP                                       | 156    | 55.1-146 | S    | %Rec  | 1  | 6/14/2020 3:30:01 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 170    | 60       |      | mg/Kg | 20 | 6/18/2020 5:10:38 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 6/14/2020 1:18:40 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 6/14/2020 1:18:40 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 6/14/2020 1:18:40 AM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 6/14/2020 1:18:40 AM |
| Surr: 1,2-Dichloroethane-d4                      | 99.9   | 70-130   |      | %Rec  | 1  | 6/14/2020 1:18:40 AM |
| Surr: 4-Bromofluorobenzene                       | 93.9   | 70-130   |      | %Rec  | 1  | 6/14/2020 1:18:40 AM |
| Surr: Dibromofluoromethane                       | 100    | 70-130   |      | %Rec  | 1  | 6/14/2020 1:18:40 AM |
| Surr: Toluene-d8                                 | 100    | 70-130   |      | %Rec  | 1  | 6/14/2020 1:18:40 AM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 6/14/2020 1:18:40 AM |
| Surr: BFB                                        | 99.5   | 70-130   |      | %Rec  | 1  | 6/14/2020 1:18:40 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-10 6"

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-010

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.8      |      | mg/Kg | 1  | 6/14/2020 3:40:10 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 6/14/2020 3:40:10 PM |
| Surr: DNOP                                       | 101    | 55.1-146 |      | %Rec  | 1  | 6/14/2020 3:40:10 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 150    | 60       |      | mg/Kg | 20 | 6/18/2020 5:23:03 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 6/14/2020 1:48:14 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 6/14/2020 1:48:14 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 6/14/2020 1:48:14 AM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 6/14/2020 1:48:14 AM |
| Surr: 1,2-Dichloroethane-d4                      | 96.1   | 70-130   |      | %Rec  | 1  | 6/14/2020 1:48:14 AM |
| Surr: 4-Bromofluorobenzene                       | 93.2   | 70-130   |      | %Rec  | 1  | 6/14/2020 1:48:14 AM |
| Surr: Dibromofluoromethane                       | 99.4   | 70-130   |      | %Rec  | 1  | 6/14/2020 1:48:14 AM |
| Surr: Toluene-d8                                 | 98.8   | 70-130   |      | %Rec  | 1  | 6/14/2020 1:48:14 AM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 6/14/2020 1:48:14 AM |
| Surr: BFB                                        | 99.2   | 70-130   |      | %Rec  | 1  | 6/14/2020 1:48:14 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-11 6"

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-011

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.4      |      | mg/Kg | 1  | 6/14/2020 3:50:22 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 6/14/2020 3:50:22 PM |
| Surr: DNOP                                       | 124    | 55.1-146 |      | %Rec  | 1  | 6/14/2020 3:50:22 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 220    | 60       |      | mg/Kg | 20 | 6/18/2020 6:00:18 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 6/14/2020 2:17:47 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 6/14/2020 2:17:47 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 6/14/2020 2:17:47 AM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 6/14/2020 2:17:47 AM |
| Surr: 1,2-Dichloroethane-d4                      | 100    | 70-130   |      | %Rec  | 1  | 6/14/2020 2:17:47 AM |
| Surr: 4-Bromofluorobenzene                       | 95.1   | 70-130   |      | %Rec  | 1  | 6/14/2020 2:17:47 AM |
| Surr: Dibromofluoromethane                       | 98.9   | 70-130   |      | %Rec  | 1  | 6/14/2020 2:17:47 AM |
| Surr: Toluene-d8                                 | 101    | 70-130   |      | %Rec  | 1  | 6/14/2020 2:17:47 AM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 6/14/2020 2:17:47 AM |
| Surr: BFB                                        | 101    | 70-130   |      | %Rec  | 1  | 6/14/2020 2:17:47 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-12 6"

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-012

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.8      |      | mg/Kg | 1  | 6/14/2020 4:00:33 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 6/14/2020 4:00:33 PM |
| Surr: DNOP                                       | 117    | 55.1-146 |      | %Rec  | 1  | 6/14/2020 4:00:33 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 180    | 60       |      | mg/Kg | 20 | 6/18/2020 6:12:43 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 6/14/2020 2:47:03 AM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 6/14/2020 2:47:03 AM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 6/14/2020 2:47:03 AM |
| Xylenes, Total                                   | ND     | 0.094    |      | mg/Kg | 1  | 6/14/2020 2:47:03 AM |
| Surr: 1,2-Dichloroethane-d4                      | 101    | 70-130   |      | %Rec  | 1  | 6/14/2020 2:47:03 AM |
| Surr: 4-Bromofluorobenzene                       | 95.5   | 70-130   |      | %Rec  | 1  | 6/14/2020 2:47:03 AM |
| Surr: Dibromofluoromethane                       | 104    | 70-130   |      | %Rec  | 1  | 6/14/2020 2:47:03 AM |
| Surr: Toluene-d8                                 | 99.5   | 70-130   |      | %Rec  | 1  | 6/14/2020 2:47:03 AM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 6/14/2020 2:47:03 AM |
| Surr: BFB                                        | 104    | 70-130   |      | %Rec  | 1  | 6/14/2020 2:47:03 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-13 6"

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-013

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.6      |      | mg/Kg | 1  | 6/14/2020 4:10:42 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 6/14/2020 4:10:42 PM |
| Surr: DNOP                                       | 115    | 55.1-146 |      | %Rec  | 1  | 6/14/2020 4:10:42 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 180    | 60       |      | mg/Kg | 20 | 6/18/2020 6:25:07 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 6/14/2020 3:16:28 AM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 6/14/2020 3:16:28 AM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 6/14/2020 3:16:28 AM |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 6/14/2020 3:16:28 AM |
| Surr: 1,2-Dichloroethane-d4                      | 97.9   | 70-130   |      | %Rec  | 1  | 6/14/2020 3:16:28 AM |
| Surr: 4-Bromofluorobenzene                       | 96.2   | 70-130   |      | %Rec  | 1  | 6/14/2020 3:16:28 AM |
| Surr: Dibromofluoromethane                       | 99.6   | 70-130   |      | %Rec  | 1  | 6/14/2020 3:16:28 AM |
| Surr: Toluene-d8                                 | 100    | 70-130   |      | %Rec  | 1  | 6/14/2020 3:16:28 AM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 6/14/2020 3:16:28 AM |
| Surr: BFB                                        | 104    | 70-130   |      | %Rec  | 1  | 6/14/2020 3:16:28 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-14 6"

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-014

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.3      |      | mg/Kg | 1  | 6/14/2020 4:20:55 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 6/14/2020 4:20:55 PM |
| Surr: DNOP                                       | 113    | 55.1-146 |      | %Rec  | 1  | 6/14/2020 4:20:55 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 140    | 60       |      | mg/Kg | 20 | 6/18/2020 6:37:31 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 6/14/2020 3:45:56 AM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 6/14/2020 3:45:56 AM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 6/14/2020 3:45:56 AM |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1  | 6/14/2020 3:45:56 AM |
| Surr: 1,2-Dichloroethane-d4                      | 99.5   | 70-130   |      | %Rec  | 1  | 6/14/2020 3:45:56 AM |
| Surr: 4-Bromofluorobenzene                       | 93.0   | 70-130   |      | %Rec  | 1  | 6/14/2020 3:45:56 AM |
| Surr: Dibromofluoromethane                       | 99.2   | 70-130   |      | %Rec  | 1  | 6/14/2020 3:45:56 AM |
| Surr: Toluene-d8                                 | 98.2   | 70-130   |      | %Rec  | 1  | 6/14/2020 3:45:56 AM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 6/14/2020 3:45:56 AM |
| Surr: BFB                                        | 99.4   | 70-130   |      | %Rec  | 1  | 6/14/2020 3:45:56 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-15 6"

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-015

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.8      |      | mg/Kg | 1  | 6/14/2020 4:31:08 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 6/14/2020 4:31:08 PM |
| Surr: DNOP                                       | 104    | 55.1-146 |      | %Rec  | 1  | 6/14/2020 4:31:08 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 190    | 60       |      | mg/Kg | 20 | 6/18/2020 6:49:56 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 6/14/2020 4:15:27 AM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 6/14/2020 4:15:27 AM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 6/14/2020 4:15:27 AM |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 6/14/2020 4:15:27 AM |
| Surr: 1,2-Dichloroethane-d4                      | 102    | 70-130   |      | %Rec  | 1  | 6/14/2020 4:15:27 AM |
| Surr: 4-Bromofluorobenzene                       | 94.6   | 70-130   |      | %Rec  | 1  | 6/14/2020 4:15:27 AM |
| Surr: Dibromofluoromethane                       | 108    | 70-130   |      | %Rec  | 1  | 6/14/2020 4:15:27 AM |
| Surr: Toluene-d8                                 | 99.1   | 70-130   |      | %Rec  | 1  | 6/14/2020 4:15:27 AM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 6/14/2020 4:15:27 AM |
| Surr: BFB                                        | 101    | 70-130   |      | %Rec  | 1  | 6/14/2020 4:15:27 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-16 6"

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-016

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 6/14/2020 4:41:21 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 6/14/2020 4:41:21 PM |
| Surr: DNOP                                       | 104    | 55.1-146 |      | %Rec  | 1  | 6/14/2020 4:41:21 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 210    | 60       |      | mg/Kg | 20 | 6/18/2020 8:41:36 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 6/14/2020 4:45:09 AM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 6/14/2020 4:45:09 AM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 6/14/2020 4:45:09 AM |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 6/14/2020 4:45:09 AM |
| Surr: 1,2-Dichloroethane-d4                      | 96.5   | 70-130   |      | %Rec  | 1  | 6/14/2020 4:45:09 AM |
| Surr: 4-Bromofluorobenzene                       | 94.4   | 70-130   |      | %Rec  | 1  | 6/14/2020 4:45:09 AM |
| Surr: Dibromofluoromethane                       | 102    | 70-130   |      | %Rec  | 1  | 6/14/2020 4:45:09 AM |
| Surr: Toluene-d8                                 | 101    | 70-130   |      | %Rec  | 1  | 6/14/2020 4:45:09 AM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 6/14/2020 4:45:09 AM |
| Surr: BFB                                        | 101    | 70-130   |      | %Rec  | 1  | 6/14/2020 4:45:09 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-17 6"

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-017

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.8      |      | mg/Kg | 1  | 6/14/2020 4:51:32 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 6/14/2020 4:51:32 PM |
| Surr: DNOP                                       | 123    | 55.1-146 |      | %Rec  | 1  | 6/14/2020 4:51:32 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 180    | 60       |      | mg/Kg | 20 | 6/18/2020 8:54:01 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 6/14/2020 5:14:38 AM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 6/14/2020 5:14:38 AM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 6/14/2020 5:14:38 AM |
| Xylenes, Total                                   | ND     | 0.094    |      | mg/Kg | 1  | 6/14/2020 5:14:38 AM |
| Surr: 1,2-Dichloroethane-d4                      | 100    | 70-130   |      | %Rec  | 1  | 6/14/2020 5:14:38 AM |
| Surr: 4-Bromofluorobenzene                       | 95.5   | 70-130   |      | %Rec  | 1  | 6/14/2020 5:14:38 AM |
| Surr: Dibromofluoromethane                       | 101    | 70-130   |      | %Rec  | 1  | 6/14/2020 5:14:38 AM |
| Surr: Toluene-d8                                 | 97.0   | 70-130   |      | %Rec  | 1  | 6/14/2020 5:14:38 AM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 6/14/2020 5:14:38 AM |
| Surr: BFB                                        | 99.5   | 70-130   |      | %Rec  | 1  | 6/14/2020 5:14:38 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-18 6"

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-018

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.6      |      | mg/Kg | 1  | 6/14/2020 5:01:48 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 6/14/2020 5:01:48 PM |
| Surr: DNOP                                       | 104    | 55.1-146 |      | %Rec  | 1  | 6/14/2020 5:01:48 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 270    | 60       |      | mg/Kg | 20 | 6/18/2020 9:06:25 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 6/14/2020 5:44:07 AM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 6/14/2020 5:44:07 AM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 6/14/2020 5:44:07 AM |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 6/14/2020 5:44:07 AM |
| Surr: 1,2-Dichloroethane-d4                      | 97.3   | 70-130   |      | %Rec  | 1  | 6/14/2020 5:44:07 AM |
| Surr: 4-Bromofluorobenzene                       | 94.9   | 70-130   |      | %Rec  | 1  | 6/14/2020 5:44:07 AM |
| Surr: Dibromofluoromethane                       | 99.1   | 70-130   |      | %Rec  | 1  | 6/14/2020 5:44:07 AM |
| Surr: Toluene-d8                                 | 102    | 70-130   |      | %Rec  | 1  | 6/14/2020 5:44:07 AM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 6/14/2020 5:44:07 AM |
| Surr: BFB                                        | 103    | 70-130   |      | %Rec  | 1  | 6/14/2020 5:44:07 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-19 6"

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-019

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.4      |      | mg/Kg | 1  | 6/14/2020 5:12:06 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 6/14/2020 5:12:06 PM |
| Surr: DNOP                                       | 118    | 55.1-146 |      | %Rec  | 1  | 6/14/2020 5:12:06 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 170    | 60       |      | mg/Kg | 20 | 6/18/2020 9:18:50 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 6/14/2020 6:13:51 AM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 6/14/2020 6:13:51 AM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 6/14/2020 6:13:51 AM |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 6/14/2020 6:13:51 AM |
| Surr: 1,2-Dichloroethane-d4                      | 98.7   | 70-130   |      | %Rec  | 1  | 6/14/2020 6:13:51 AM |
| Surr: 4-Bromofluorobenzene                       | 94.8   | 70-130   |      | %Rec  | 1  | 6/14/2020 6:13:51 AM |
| Surr: Dibromofluoromethane                       | 101    | 70-130   |      | %Rec  | 1  | 6/14/2020 6:13:51 AM |
| Surr: Toluene-d8                                 | 98.8   | 70-130   |      | %Rec  | 1  | 6/14/2020 6:13:51 AM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 6/14/2020 6:13:51 AM |
| Surr: BFB                                        | 97.9   | 70-130   |      | %Rec  | 1  | 6/14/2020 6:13:51 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-20 6"

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-020

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 6/14/2020 5:22:21 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 6/14/2020 5:22:21 PM  |
| Surr: DNOP                                       | 89.1   | 55.1-146 |      | %Rec  | 1  | 6/14/2020 5:22:21 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 160    | 61       |      | mg/Kg | 20 | 6/18/2020 9:31:15 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 6/14/2020 11:46:01 AM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 6/14/2020 11:46:01 AM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 6/14/2020 11:46:01 AM |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 6/14/2020 11:46:01 AM |
| Surr: 1,2-Dichloroethane-d4                      | 108    | 70-130   |      | %Rec  | 1  | 6/14/2020 11:46:01 AM |
| Surr: 4-Bromofluorobenzene                       | 90.3   | 70-130   |      | %Rec  | 1  | 6/14/2020 11:46:01 AM |
| Surr: Dibromofluoromethane                       | 103    | 70-130   |      | %Rec  | 1  | 6/14/2020 11:46:01 AM |
| Surr: Toluene-d8                                 | 98.2   | 70-130   |      | %Rec  | 1  | 6/14/2020 11:46:01 AM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 6/14/2020 11:46:01 AM |
| Surr: BFB                                        | 99.2   | 70-130   |      | %Rec  | 1  | 6/14/2020 11:46:01 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-21 6"

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-021

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | ND     | 10       |      | mg/Kg | 1  | 6/14/2020 5:32:40 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 6/14/2020 5:32:40 PM  |
| Surr: DNOP                                       | 120    | 55.1-146 |      | %Rec  | 1  | 6/14/2020 5:32:40 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 190    | 60       |      | mg/Kg | 20 | 6/18/2020 9:43:40 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 6/14/2020 12:45:10 PM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 6/14/2020 12:45:10 PM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 6/14/2020 12:45:10 PM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 6/14/2020 12:45:10 PM |
| Surr: 1,2-Dichloroethane-d4                      | 103    | 70-130   |      | %Rec  | 1  | 6/14/2020 12:45:10 PM |
| Surr: 4-Bromofluorobenzene                       | 91.3   | 70-130   |      | %Rec  | 1  | 6/14/2020 12:45:10 PM |
| Surr: Dibromofluoromethane                       | 108    | 70-130   |      | %Rec  | 1  | 6/14/2020 12:45:10 PM |
| Surr: Toluene-d8                                 | 96.0   | 70-130   |      | %Rec  | 1  | 6/14/2020 12:45:10 PM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 6/14/2020 12:45:10 PM |
| Surr: BFB                                        | 101    | 70-130   |      | %Rec  | 1  | 6/14/2020 12:45:10 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-22 6"

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-022

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 6/14/2020 5:43:09 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 6/14/2020 5:43:09 PM |
| Surr: DNOP                                       | 103    | 55.1-146 |      | %Rec  | 1  | 6/14/2020 5:43:09 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CJS</b>  |
| Chloride                                         | 220    | 60       |      | mg/Kg | 20 | 6/18/2020 9:49:48 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 6/14/2020 1:14:43 PM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 6/14/2020 1:14:43 PM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 6/14/2020 1:14:43 PM |
| Xylenes, Total                                   | ND     | 0.094    |      | mg/Kg | 1  | 6/14/2020 1:14:43 PM |
| Surr: 1,2-Dichloroethane-d4                      | 97.7   | 70-130   |      | %Rec  | 1  | 6/14/2020 1:14:43 PM |
| Surr: 4-Bromofluorobenzene                       | 92.6   | 70-130   |      | %Rec  | 1  | 6/14/2020 1:14:43 PM |
| Surr: Dibromofluoromethane                       | 97.6   | 70-130   |      | %Rec  | 1  | 6/14/2020 1:14:43 PM |
| Surr: Toluene-d8                                 | 98.6   | 70-130   |      | %Rec  | 1  | 6/14/2020 1:14:43 PM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 6/14/2020 1:14:43 PM |
| Surr: BFB                                        | 101    | 70-130   |      | %Rec  | 1  | 6/14/2020 1:14:43 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-23 6"

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-023

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 6/14/2020 5:53:36 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 6/14/2020 5:53:36 PM  |
| Surr: DNOP                                       | 114    | 55.1-146 |      | %Rec  | 1  | 6/14/2020 5:53:36 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CJS</b>   |
| Chloride                                         | 200    | 60       |      | mg/Kg | 20 | 6/18/2020 10:26:49 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 6/14/2020 1:44:19 PM  |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 6/14/2020 1:44:19 PM  |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 6/14/2020 1:44:19 PM  |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 6/14/2020 1:44:19 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 100    | 70-130   |      | %Rec  | 1  | 6/14/2020 1:44:19 PM  |
| Surr: 4-Bromofluorobenzene                       | 95.1   | 70-130   |      | %Rec  | 1  | 6/14/2020 1:44:19 PM  |
| Surr: Dibromofluoromethane                       | 101    | 70-130   |      | %Rec  | 1  | 6/14/2020 1:44:19 PM  |
| Surr: Toluene-d8                                 | 98.8   | 70-130   |      | %Rec  | 1  | 6/14/2020 1:44:19 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 6/14/2020 1:44:19 PM  |
| Surr: BFB                                        | 101    | 70-130   |      | %Rec  | 1  | 6/14/2020 1:44:19 PM  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-24 6"

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-024

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 6/14/2020 6:04:08 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 6/14/2020 6:04:08 PM  |
| Surr: DNOP                                       | 81.8   | 55.1-146 |      | %Rec  | 1  | 6/14/2020 6:04:08 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CJS</b>   |
| Chloride                                         | 220    | 60       |      | mg/Kg | 20 | 6/18/2020 10:39:09 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 6/14/2020 2:13:59 PM  |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 6/14/2020 2:13:59 PM  |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 6/14/2020 2:13:59 PM  |
| Xylenes, Total                                   | ND     | 0.092    |      | mg/Kg | 1  | 6/14/2020 2:13:59 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 97.5   | 70-130   |      | %Rec  | 1  | 6/14/2020 2:13:59 PM  |
| Surr: 4-Bromofluorobenzene                       | 95.5   | 70-130   |      | %Rec  | 1  | 6/14/2020 2:13:59 PM  |
| Surr: Dibromofluoromethane                       | 95.8   | 70-130   |      | %Rec  | 1  | 6/14/2020 2:13:59 PM  |
| Surr: Toluene-d8                                 | 101    | 70-130   |      | %Rec  | 1  | 6/14/2020 2:13:59 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 6/14/2020 2:13:59 PM  |
| Surr: BFB                                        | 102    | 70-130   |      | %Rec  | 1  | 6/14/2020 2:13:59 PM  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-25 6"

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-025

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.6      |      | mg/Kg | 1  | 6/14/2020 6:14:34 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 6/14/2020 6:14:34 PM  |
| Surr: DNOP                                       | 129    | 55.1-146 |      | %Rec  | 1  | 6/14/2020 6:14:34 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CJS</b>   |
| Chloride                                         | 130    | 60       |      | mg/Kg | 20 | 6/18/2020 10:51:30 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 6/14/2020 2:43:42 PM  |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 6/14/2020 2:43:42 PM  |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 6/14/2020 2:43:42 PM  |
| Xylenes, Total                                   | ND     | 0.094    |      | mg/Kg | 1  | 6/14/2020 2:43:42 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 101    | 70-130   |      | %Rec  | 1  | 6/14/2020 2:43:42 PM  |
| Surr: 4-Bromofluorobenzene                       | 92.2   | 70-130   |      | %Rec  | 1  | 6/14/2020 2:43:42 PM  |
| Surr: Dibromofluoromethane                       | 102    | 70-130   |      | %Rec  | 1  | 6/14/2020 2:43:42 PM  |
| Surr: Toluene-d8                                 | 100    | 70-130   |      | %Rec  | 1  | 6/14/2020 2:43:42 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 6/14/2020 2:43:42 PM  |
| Surr: BFB                                        | 102    | 70-130   |      | %Rec  | 1  | 6/14/2020 2:43:42 PM  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-01

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-026

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.8      |      | mg/Kg | 1  | 6/14/2020 10:11:14 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 6/14/2020 10:11:14 PM |
| Surr: DNOP                                       | 119    | 55.1-146 |      | %Rec  | 1  | 6/14/2020 10:11:14 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CJS</b>   |
| Chloride                                         | 170    | 60       |      | mg/Kg | 20 | 6/18/2020 11:03:51 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 6/14/2020 5:41:45 PM  |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 6/14/2020 5:41:45 PM  |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 6/14/2020 5:41:45 PM  |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1  | 6/14/2020 5:41:45 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 94.2   | 70-130   |      | %Rec  | 1  | 6/14/2020 5:41:45 PM  |
| Surr: 4-Bromofluorobenzene                       | 93.9   | 70-130   |      | %Rec  | 1  | 6/14/2020 5:41:45 PM  |
| Surr: Dibromofluoromethane                       | 93.3   | 70-130   |      | %Rec  | 1  | 6/14/2020 5:41:45 PM  |
| Surr: Toluene-d8                                 | 101    | 70-130   |      | %Rec  | 1  | 6/14/2020 5:41:45 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 6/14/2020 5:41:45 PM  |
| Surr: BFB                                        | 101    | 70-130   |      | %Rec  | 1  | 6/14/2020 5:41:45 PM  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-02

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-027

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.6      |      | mg/Kg | 1  | 6/14/2020 10:21:26 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 6/14/2020 10:21:26 PM |
| Surr: DNOP                                       | 111    | 55.1-146 |      | %Rec  | 1  | 6/14/2020 10:21:26 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CJS</b>   |
| Chloride                                         | 140    | 60       |      | mg/Kg | 20 | 6/18/2020 11:16:11 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 6/14/2020 7:10:27 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 6/14/2020 7:10:27 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 6/14/2020 7:10:27 PM  |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 6/14/2020 7:10:27 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 100    | 70-130   |      | %Rec  | 1  | 6/14/2020 7:10:27 PM  |
| Surr: 4-Bromofluorobenzene                       | 94.6   | 70-130   |      | %Rec  | 1  | 6/14/2020 7:10:27 PM  |
| Surr: Dibromofluoromethane                       | 103    | 70-130   |      | %Rec  | 1  | 6/14/2020 7:10:27 PM  |
| Surr: Toluene-d8                                 | 102    | 70-130   |      | %Rec  | 1  | 6/14/2020 7:10:27 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 6/14/2020 7:10:27 PM  |
| Surr: BFB                                        | 102    | 70-130   |      | %Rec  | 1  | 6/14/2020 7:10:27 PM  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-03

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-028

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.4      |      | mg/Kg | 1  | 6/14/2020 10:31:39 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 6/14/2020 10:31:39 PM |
| Surr: DNOP                                       | 105    | 55.1-146 |      | %Rec  | 1  | 6/14/2020 10:31:39 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CJS</b>   |
| Chloride                                         | 210    | 59       |      | mg/Kg | 20 | 6/18/2020 11:28:32 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 6/14/2020 8:39:17 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 6/14/2020 8:39:17 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 6/14/2020 8:39:17 PM  |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 6/14/2020 8:39:17 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 99.9   | 70-130   |      | %Rec  | 1  | 6/14/2020 8:39:17 PM  |
| Surr: 4-Bromofluorobenzene                       | 94.5   | 70-130   |      | %Rec  | 1  | 6/14/2020 8:39:17 PM  |
| Surr: Dibromofluoromethane                       | 101    | 70-130   |      | %Rec  | 1  | 6/14/2020 8:39:17 PM  |
| Surr: Toluene-d8                                 | 98.6   | 70-130   |      | %Rec  | 1  | 6/14/2020 8:39:17 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 6/14/2020 8:39:17 PM  |
| Surr: BFB                                        | 103    | 70-130   |      | %Rec  | 1  | 6/14/2020 8:39:17 PM  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

## Analytical Report

Lab Order 2006700

Date Reported: 6/22/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-04

Project: Fighting Okra 18 Fed Com #001

Collection Date: 6/11/2020

Lab ID: 2006700-029

Matrix: SOIL

Received Date: 6/12/2020 9:35:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.3      |      | mg/Kg | 1  | 6/14/2020 10:41:56 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 6/14/2020 10:41:56 PM |
| Surr: DNOP                                       | 102    | 55.1-146 |      | %Rec  | 1  | 6/14/2020 10:41:56 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CJS</b>   |
| Chloride                                         | 180    | 60       |      | mg/Kg | 20 | 6/18/2020 11:40:52 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 6/14/2020 9:09:00 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 6/14/2020 9:09:00 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 6/14/2020 9:09:00 PM  |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 6/14/2020 9:09:00 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 93.6   | 70-130   |      | %Rec  | 1  | 6/14/2020 9:09:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 93.3   | 70-130   |      | %Rec  | 1  | 6/14/2020 9:09:00 PM  |
| Surr: Dibromofluoromethane                       | 96.7   | 70-130   |      | %Rec  | 1  | 6/14/2020 9:09:00 PM  |
| Surr: Toluene-d8                                 | 95.9   | 70-130   |      | %Rec  | 1  | 6/14/2020 9:09:00 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 6/14/2020 9:09:00 PM  |
| Surr: BFB                                        | 99.4   | 70-130   |      | %Rec  | 1  | 6/14/2020 9:09:00 PM  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |     |                                                       |    |                                                 |
|--------------------|-----|-------------------------------------------------------|----|-------------------------------------------------|
| <b>Qualifiers:</b> | *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of range due to dilution or matrix |    |                                                 |
|                    |     |                                                       |    |                                                 |

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2006700

22-Jun-20

**Client:** Devon Energy**Project:** Fighting Okra 18 Fed Com #001

| Sample ID: <b>MB-53133</b>  | SampType: <b>mblk</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>53133</b>          | RunNo: <b>69715</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/17/2020</b> | Analysis Date: <b>6/17/2020</b> | SeqNo: <b>2420563</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |           |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-53133</b> | SampType: <b>lcs</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>53133</b>          | RunNo: <b>69715</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/17/2020</b> | Analysis Date: <b>6/17/2020</b> | SeqNo: <b>2420564</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                              | 1.5                                       | 15.00     | 0           | 96.4 | 90       | 110       |      |          |      |

| Sample ID: <b>MB-53156</b>  | SampType: <b>mblk</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>53156</b>          | RunNo: <b>69741</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/18/2020</b> | Analysis Date: <b>6/18/2020</b> | SeqNo: <b>2421284</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |           |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-53156</b> | SampType: <b>lcs</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>53156</b>          | RunNo: <b>69741</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/18/2020</b> | Analysis Date: <b>6/18/2020</b> | SeqNo: <b>2421285</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                              | 1.5                                       | 15.00     | 0           | 94.0 | 90       | 110       |      |          |      |

| Sample ID: <b>MB-53160</b>  | SampType: <b>mblk</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>53160</b>          | RunNo: <b>69742</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/18/2020</b> | Analysis Date: <b>6/18/2020</b> | SeqNo: <b>2421410</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |           |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-53160</b> | SampType: <b>lcs</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>53160</b>          | RunNo: <b>69742</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/18/2020</b> | Analysis Date: <b>6/18/2020</b> | SeqNo: <b>2421411</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                              | 1.5                                       | 15.00     | 0           | 93.6 | 90       | 110       |      |          |      |

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2006700

22-Jun-20

**Client:** Devon Energy  
**Project:** Fighting Okra 18 Fed Com #001

| Sample ID: <b>MB-53059</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>53059</b>          | RunNo: <b>69626</b>                                        |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/13/2020</b>    | Analysis Date: <b>6/14/2020</b> | SeqNo: <b>2416601</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| Analyte                        | Result                          | PQL                                                        | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)    | ND                              | 10                                                         |           |             |      |          |           |      |          |      |
| Motor Oil Range Organics (MRO) | ND                              | 50                                                         |           |             |      |          |           |      |          |      |
| Surr: DNOP                     | 12                              |                                                            | 10.00     |             | 121  | 55.1     | 146       |      |          |      |

| Sample ID: <b>LCS-53059</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>53059</b>          | RunNo: <b>69623</b>                                        |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/13/2020</b> | Analysis Date: <b>6/14/2020</b> | SeqNo: <b>2416881</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 60                              | 10                                                         | 50.00     | 0           | 120  | 70       | 130       |      |          |      |
| Surr: DNOP                  | 5.9                             |                                                            | 5.000     |             | 119  | 55.1     | 146       |      |          |      |

| Sample ID: <b>2006700-006AMS</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS20-06 6"</b>     | Batch ID: <b>53062</b>          | RunNo: <b>69626</b>                                        |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/13/2020</b>      | Analysis Date: <b>6/14/2020</b> | SeqNo: <b>2417110</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                                        | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)      | 62                              | 9.9                                                        | 49.31     | 0           | 127  | 47.4     | 136       |      |          |      |
| Surr: DNOP                       | 5.6                             |                                                            | 4.931     |             | 114  | 55.1     | 146       |      |          |      |

| Sample ID: <b>2006700-006AMSD</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS20-06 6"</b>      | Batch ID: <b>53062</b>          | RunNo: <b>69626</b>                                        |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/13/2020</b>       | Analysis Date: <b>6/14/2020</b> | SeqNo: <b>2417111</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                                        | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)       | 71                              | 9.1                                                        | 45.70     | 0           | 156  | 47.4     | 136       | 13.2 | 43.4     | S    |
| Surr: DNOP                        | 6.7                             |                                                            | 4.570     |             | 147  | 55.1     | 146       | 0    | 0        | S    |

| Sample ID: <b>LCS-53062</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>53062</b>          | RunNo: <b>69626</b>                                        |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/13/2020</b> | Analysis Date: <b>6/14/2020</b> | SeqNo: <b>2417145</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 61                              | 10                                                         | 50.00     | 0           | 123  | 70       | 130       |      |          |      |
| Surr: DNOP                  | 5.4                             |                                                            | 5.000     |             | 108  | 55.1     | 146       |      |          |      |

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2006700

22-Jun-20

**Client:** Devon Energy**Project:** Fighting Okra 18 Fed Com #001

| Sample ID: <b>LCS-53067</b> | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |      |                     |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|------------------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>53067</b>          |     |           | RunNo: <b>69626</b>                                        |      |                     |           |      |          |      |
| Prep Date: <b>6/13/2020</b> | Analysis Date: <b>6/14/2020</b> |     |           | SeqNo: <b>2417146</b>                                      |      | Units: <b>mg/Kg</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                                | %REC | LowLimit            | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 61                              | 10  | 50.00     | 0                                                          | 122  | 70                  | 130       |      |          |      |
| Surr: DNOP                  | 6.0                             |     | 5.000     |                                                            | 120  | 55.1                | 146       |      |          |      |

| Sample ID: <b>LCS-53068</b> | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|------------------------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>53068</b>          |     |           | RunNo: <b>69626</b>                                        |      |                    |           |      |          |      |
| Prep Date: <b>6/13/2020</b> | Analysis Date: <b>6/14/2020</b> |     |           | SeqNo: <b>2417148</b>                                      |      | Units: <b>%Rec</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                                | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 5.0                             |     | 5.000     |                                                            | 100  | 55.1               | 146       |      |          |      |

| Sample ID: <b>MB-53062</b>     | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |      |                     |           |      |          |      |
|--------------------------------|---------------------------------|-----|-----------|------------------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>53062</b>          |     |           | RunNo: <b>69626</b>                                        |      |                     |           |      |          |      |
| Prep Date: <b>6/13/2020</b>    | Analysis Date: <b>6/14/2020</b> |     |           | SeqNo: <b>2417149</b>                                      |      | Units: <b>mg/Kg</b> |           |      |          |      |
| Analyte                        | Result                          | PQL | SPK value | SPK Ref Val                                                | %REC | LowLimit            | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)    | ND                              | 10  |           |                                                            |      |                     |           |      |          |      |
| Motor Oil Range Organics (MRO) | ND                              | 50  |           |                                                            |      |                     |           |      |          |      |
| Surr: DNOP                     | 14                              |     | 10.00     |                                                            | 144  | 55.1                | 146       |      |          |      |

| Sample ID: <b>MB-53067</b>     | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |      |                     |           |      |          |      |
|--------------------------------|---------------------------------|-----|-----------|------------------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>53067</b>          |     |           | RunNo: <b>69626</b>                                        |      |                     |           |      |          |      |
| Prep Date: <b>6/13/2020</b>    | Analysis Date: <b>6/14/2020</b> |     |           | SeqNo: <b>2417151</b>                                      |      | Units: <b>mg/Kg</b> |           |      |          |      |
| Analyte                        | Result                          | PQL | SPK value | SPK Ref Val                                                | %REC | LowLimit            | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)    | ND                              | 10  |           |                                                            |      |                     |           |      |          |      |
| Motor Oil Range Organics (MRO) | ND                              | 50  |           |                                                            |      |                     |           |      |          |      |
| Surr: DNOP                     | 13                              |     | 10.00     |                                                            | 134  | 55.1                | 146       |      |          |      |

| Sample ID: <b>MB-53068</b>  | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|------------------------------------------------------------|------|--------------------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>53068</b>          |     |           | RunNo: <b>69626</b>                                        |      |                    |           |      |          |      |
| Prep Date: <b>6/13/2020</b> | Analysis Date: <b>6/14/2020</b> |     |           | SeqNo: <b>2417152</b>                                      |      | Units: <b>%Rec</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                                | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 11                              |     | 10.00     |                                                            | 114  | 55.1               | 146       |      |          |      |

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2006700

22-Jun-20

**Client:** Devon Energy**Project:** Fighting Okra 18 Fed Com #001

| Sample ID: <b>mb-53057</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>53057</b>          | RunNo: <b>69620</b>                                     |                     |             |      |          |           |      |          |      |
| Prep Date: <b>6/12/2020</b> | Analysis Date: <b>6/13/2020</b> | SeqNo: <b>2416339</b>                                   | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                     | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | ND                              | 0.025                                                   |                     |             |      |          |           |      |          |      |
| Toluene                     | ND                              | 0.050                                                   |                     |             |      |          |           |      |          |      |
| Ethylbenzene                | ND                              | 0.050                                                   |                     |             |      |          |           |      |          |      |
| Xylenes, Total              | ND                              | 0.10                                                    |                     |             |      |          |           |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 0.48                            |                                                         | 0.5000              |             | 97.0 | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.49                            |                                                         | 0.5000              |             | 98.9 | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 0.51                            |                                                         | 0.5000              |             | 103  | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 0.52                            |                                                         | 0.5000              |             | 104  | 70       | 130       |      |          |      |

| Sample ID: <b>lcs-53057</b> | SampType: <b>LCS4</b>           | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>   | Batch ID: <b>53057</b>          | RunNo: <b>69620</b>                                     |                     |             |      |          |           |      |          |      |
| Prep Date: <b>6/12/2020</b> | Analysis Date: <b>6/13/2020</b> | SeqNo: <b>2416340</b>                                   | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                     | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 1.0                             | 0.025                                                   | 1.000               | 0           | 102  | 80       | 120       |      |          |      |
| Toluene                     | 1.0                             | 0.050                                                   | 1.000               | 0           | 103  | 80       | 120       |      |          |      |
| Ethylbenzene                | 1.0                             | 0.050                                                   | 1.000               | 0           | 105  | 80       | 120       |      |          |      |
| Xylenes, Total              | 3.3                             | 0.10                                                    | 3.000               | 0           | 110  | 80       | 120       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 0.47                            |                                                         | 0.5000              |             | 93.7 | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.48                            |                                                         | 0.5000              |             | 96.0 | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 0.50                            |                                                         | 0.5000              |             | 100  | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 0.51                            |                                                         | 0.5000              |             | 103  | 70       | 130       |      |          |      |

| Sample ID: <b>mb-53058</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>53058</b>          | RunNo: <b>69621</b>                                     |                     |             |      |          |           |      |          |      |
| Prep Date: <b>6/12/2020</b> | Analysis Date: <b>6/13/2020</b> | SeqNo: <b>2416426</b>                                   | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                     | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | ND                              | 0.025                                                   |                     |             |      |          |           |      |          |      |
| Toluene                     | ND                              | 0.050                                                   |                     |             |      |          |           |      |          |      |
| Ethylbenzene                | ND                              | 0.050                                                   |                     |             |      |          |           |      |          |      |
| Xylenes, Total              | ND                              | 0.10                                                    |                     |             |      |          |           |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 0.49                            |                                                         | 0.5000              |             | 97.3 | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.46                            |                                                         | 0.5000              |             | 91.0 | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 0.50                            |                                                         | 0.5000              |             | 99.3 | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 0.50                            |                                                         | 0.5000              |             | 99.4 | 70       | 130       |      |          |      |

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2006700

22-Jun-20

**Client:** Devon Energy**Project:** Fighting Okra 18 Fed Com #001

| Sample ID: <b>Ics-53058</b> | SampType: <b>LCS4</b>           | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>   | Batch ID: <b>53058</b>          | RunNo: <b>69621</b>                                     |                     |             |      |          |           |      |          |      |
| Prep Date: <b>6/12/2020</b> | Analysis Date: <b>6/13/2020</b> | SeqNo: <b>2416428</b>                                   | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                     | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.97                            | 0.025                                                   | 1.000               | 0           | 97.3 | 80       | 120       |      |          |      |
| Toluene                     | 1.1                             | 0.050                                                   | 1.000               | 0           | 105  | 80       | 120       |      |          |      |
| Ethylbenzene                | 1.1                             | 0.050                                                   | 1.000               | 0           | 108  | 80       | 120       |      |          |      |
| Xylenes, Total              | 3.2                             | 0.10                                                    | 3.000               | 0           | 107  | 80       | 120       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 0.49                            |                                                         | 0.5000              |             | 98.2 | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.48                            |                                                         | 0.5000              |             | 96.0 | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 0.47                            |                                                         | 0.5000              |             | 94.3 | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 0.52                            |                                                         | 0.5000              |             | 104  | 70       | 130       |      |          |      |

| Sample ID: <b>2006700-006ams</b> | SampType: <b>MS4</b>            | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|---------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS20-06 6"</b>     | Batch ID: <b>53058</b>          | RunNo: <b>69621</b>                                     |                     |             |      |          |           |      |          |      |
| Prep Date: <b>6/12/2020</b>      | Analysis Date: <b>6/13/2020</b> | SeqNo: <b>2416430</b>                                   | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                                     | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 0.97                            | 0.023                                                   | 0.9355              | 0           | 104  | 71.1     | 115       |      |          |      |
| Toluene                          | 1.0                             | 0.047                                                   | 0.9355              | 0           | 110  | 79.6     | 132       |      |          |      |
| Ethylbenzene                     | 1.1                             | 0.047                                                   | 0.9355              | 0           | 113  | 83.8     | 134       |      |          |      |
| Xylenes, Total                   | 3.1                             | 0.094                                                   | 2.806               | 0           | 111  | 82.4     | 132       |      |          |      |
| Surr: 1,2-Dichloroethane-d4      | 0.48                            |                                                         | 0.4677              |             | 103  | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene       | 0.46                            |                                                         | 0.4677              |             | 99.3 | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane       | 0.49                            |                                                         | 0.4677              |             | 104  | 70       | 130       |      |          |      |
| Surr: Toluene-d8                 | 0.47                            |                                                         | 0.4677              |             | 100  | 70       | 130       |      |          |      |

| Sample ID: <b>2006700-006amsd</b> | SampType: <b>MSD4</b>           | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|---------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS20-06 6"</b>      | Batch ID: <b>53058</b>          | RunNo: <b>69639</b>                                     |                     |             |      |          |           |      |          |      |
| Prep Date: <b>6/12/2020</b>       | Analysis Date: <b>6/14/2020</b> | SeqNo: <b>2417244</b>                                   | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                                     | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                           | 0.87                            | 0.024                                                   | 0.9560              | 0           | 90.8 | 71.1     | 115       | 11.3 | 20       |      |
| Toluene                           | 0.93                            | 0.048                                                   | 0.9560              | 0           | 97.7 | 79.6     | 132       | 9.74 | 20       |      |
| Ethylbenzene                      | 0.99                            | 0.048                                                   | 0.9560              | 0           | 103  | 83.8     | 134       | 6.66 | 20       |      |
| Xylenes, Total                    | 2.9                             | 0.096                                                   | 2.868               | 0           | 99.8 | 82.4     | 132       | 8.55 | 20       |      |
| Surr: 1,2-Dichloroethane-d4       | 0.45                            |                                                         | 0.4780              |             | 94.9 | 70       | 130       | 0    | 0        |      |
| Surr: 4-Bromofluorobenzene        | 0.44                            |                                                         | 0.4780              |             | 92.5 | 70       | 130       | 0    | 0        |      |
| Surr: Dibromofluoromethane        | 0.46                            |                                                         | 0.4780              |             | 96.2 | 70       | 130       | 0    | 0        |      |
| Surr: Toluene-d8                  | 0.47                            |                                                         | 0.4780              |             | 97.6 | 70       | 130       | 0    | 0        |      |

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2006700

22-Jun-20

**Client:** Devon Energy**Project:** Fighting Okra 18 Fed Com #001

| Sample ID: <b>mb-53061</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |           |                     |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---------------------------------------------------------|-----------|---------------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>53061</b>          | RunNo: <b>69639</b>                                     |           |                     |      |          |           |      |          |      |
| Prep Date: <b>6/13/2020</b> | Analysis Date: <b>6/14/2020</b> | SeqNo: <b>2417251</b>                                   |           | Units: <b>mg/Kg</b> |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                     | SPK value | SPK Ref Val         | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | ND                              | 0.025                                                   |           |                     |      |          |           |      |          |      |
| Toluene                     | ND                              | 0.050                                                   |           |                     |      |          |           |      |          |      |
| Ethylbenzene                | ND                              | 0.050                                                   |           |                     |      |          |           |      |          |      |
| Xylenes, Total              | ND                              | 0.10                                                    |           |                     |      |          |           |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 0.48                            |                                                         | 0.5000    |                     | 95.1 | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.47                            |                                                         | 0.5000    |                     | 94.1 | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 0.47                            |                                                         | 0.5000    |                     | 94.3 | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 0.51                            |                                                         | 0.5000    |                     | 102  | 70       | 130       |      |          |      |

| Sample ID: <b>lcs-53061</b> | SampType: <b>LCS4</b>           | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |           |                     |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---------------------------------------------------------|-----------|---------------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>   | Batch ID: <b>53061</b>          | RunNo: <b>69639</b>                                     |           |                     |      |          |           |      |          |      |
| Prep Date: <b>6/13/2020</b> | Analysis Date: <b>6/14/2020</b> | SeqNo: <b>2417255</b>                                   |           | Units: <b>mg/Kg</b> |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                     | SPK value | SPK Ref Val         | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.96                            | 0.025                                                   | 1.000     | 0                   | 95.6 | 80       | 120       |      |          |      |
| Toluene                     | 1.0                             | 0.050                                                   | 1.000     | 0                   | 104  | 80       | 120       |      |          |      |
| Ethylbenzene                | 1.1                             | 0.050                                                   | 1.000     | 0                   | 108  | 80       | 120       |      |          |      |
| Xylenes, Total              | 3.1                             | 0.10                                                    | 3.000     | 0                   | 104  | 80       | 120       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 0.48                            |                                                         | 0.5000    |                     | 95.8 | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.45                            |                                                         | 0.5000    |                     | 90.2 | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 0.48                            |                                                         | 0.5000    |                     | 95.3 | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 0.51                            |                                                         | 0.5000    |                     | 103  | 70       | 130       |      |          |      |

| Sample ID: <b>2006700-026ams</b> | SampType: <b>MS4</b>            | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |           |                     |      |          |           |      |          |      |
|----------------------------------|---------------------------------|---------------------------------------------------------|-----------|---------------------|------|----------|-----------|------|----------|------|
| Client ID: <b>WS20-01</b>        | Batch ID: <b>53061</b>          | RunNo: <b>69639</b>                                     |           |                     |      |          |           |      |          |      |
| Prep Date: <b>6/13/2020</b>      | Analysis Date: <b>6/14/2020</b> | SeqNo: <b>2417257</b>                                   |           | Units: <b>mg/Kg</b> |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                                     | SPK value | SPK Ref Val         | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 0.82                            | 0.025                                                   | 0.9804    | 0                   | 83.3 | 71.1     | 115       |      |          |      |
| Toluene                          | 0.88                            | 0.049                                                   | 0.9804    | 0                   | 90.2 | 79.6     | 132       |      |          |      |
| Ethylbenzene                     | 0.91                            | 0.049                                                   | 0.9804    | 0                   | 93.3 | 83.8     | 134       |      |          |      |
| Xylenes, Total                   | 2.7                             | 0.098                                                   | 2.941     | 0                   | 90.5 | 82.4     | 132       |      |          |      |
| Surr: 1,2-Dichloroethane-d4      | 0.47                            |                                                         | 0.4902    |                     | 96.1 | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene       | 0.44                            |                                                         | 0.4902    |                     | 90.4 | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane       | 0.48                            |                                                         | 0.4902    |                     | 97.3 | 70       | 130       |      |          |      |
| Surr: Toluene-d8                 | 0.50                            |                                                         | 0.4902    |                     | 103  | 70       | 130       |      |          |      |

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006700

22-Jun-20

Client: Devon Energy

Project: Fighting Okra 18 Fed Com #001

|                             |        |                          |           |                                                  |      |              |           |      |          |      |
|-----------------------------|--------|--------------------------|-----------|--------------------------------------------------|------|--------------|-----------|------|----------|------|
| Sample ID: 2006700-026amsd  |        | SampType: MSD4           |           | TestCode: EPA Method 8260B: Volatiles Short List |      |              |           |      |          |      |
| Client ID: WS20-01          |        | Batch ID: 53061          |           | RunNo: 69639                                     |      |              |           |      |          |      |
| Prep Date: 6/13/2020        |        | Analysis Date: 6/14/2020 |           | SeqNo: 2417258                                   |      | Units: mg/Kg |           |      |          |      |
| Analyte                     | Result | PQL                      | SPK value | SPK Ref Val                                      | %REC | LowLimit     | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.97   | 0.025                    | 0.9833    | 0                                                | 99.1 | 71.1         | 115       | 17.6 | 20       |      |
| Toluene                     | 1.1    | 0.049                    | 0.9833    | 0                                                | 109  | 79.6         | 132       | 19.0 | 20       |      |
| Ethylbenzene                | 1.1    | 0.049                    | 0.9833    | 0                                                | 112  | 83.8         | 134       | 18.9 | 20       |      |
| Xylenes, Total              | 3.2    | 0.098                    | 2.950     | 0                                                | 109  | 82.4         | 132       | 19.3 | 20       |      |
| Surr: 1,2-Dichloroethane-d4 | 0.47   |                          | 0.4916    |                                                  | 96.2 | 70           | 130       | 0    | 0        |      |
| Surr: 4-Bromofluorobenzene  | 0.45   |                          | 0.4916    |                                                  | 92.2 | 70           | 130       | 0    | 0        |      |
| Surr: Dibromofluoromethane  | 0.50   |                          | 0.4916    |                                                  | 101  | 70           | 130       | 0    | 0        |      |
| Surr: Toluene-d8            | 0.51   |                          | 0.4916    |                                                  | 103  | 70           | 130       | 0    | 0        |      |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2006700

22-Jun-20

**Client:** Devon Energy**Project:** Fighting Okra 18 Fed Com #001

| Sample ID: <b>mb-53057</b>    | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |      |                     |           |      |          |      |
|-------------------------------|---------------------------------|-----|-----------|-------------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>53057</b>          |     |           | RunNo: <b>69620</b>                                   |      |                     |           |      |          |      |
| Prep Date: <b>6/12/2020</b>   | Analysis Date: <b>6/13/2020</b> |     |           | SeqNo: <b>2416365</b>                                 |      | Units: <b>mg/Kg</b> |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value | SPK Ref Val                                           | %REC | LowLimit            | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                              | 5.0 |           |                                                       |      |                     |           |      |          |      |
| Surr: BFB                     | 520                             |     | 500.0     |                                                       | 103  | 70                  | 130       |      |          |      |

| Sample ID: <b>lcs-53057</b>   | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |      |                     |           |      |          |      |
|-------------------------------|---------------------------------|-----|-----------|-------------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>53057</b>          |     |           | RunNo: <b>69620</b>                                   |      |                     |           |      |          |      |
| Prep Date: <b>6/12/2020</b>   | Analysis Date: <b>6/13/2020</b> |     |           | SeqNo: <b>2416366</b>                                 |      | Units: <b>mg/Kg</b> |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value | SPK Ref Val                                           | %REC | LowLimit            | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 19                              | 5.0 | 25.00     | 0                                                     | 76.1 | 70                  | 130       |      |          |      |
| Surr: BFB                     | 500                             |     | 500.0     |                                                       | 99.4 | 70                  | 130       |      |          |      |

| Sample ID: <b>mb-53058</b>    | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |      |                     |           |      |          |      |
|-------------------------------|---------------------------------|-----|-----------|-------------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>53058</b>          |     |           | RunNo: <b>69621</b>                                   |      |                     |           |      |          |      |
| Prep Date: <b>6/12/2020</b>   | Analysis Date: <b>6/13/2020</b> |     |           | SeqNo: <b>2416456</b>                                 |      | Units: <b>mg/Kg</b> |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value | SPK Ref Val                                           | %REC | LowLimit            | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                              | 5.0 |           |                                                       |      |                     |           |      |          |      |
| Surr: BFB                     | 500                             |     | 500.0     |                                                       | 99.2 | 70                  | 130       |      |          |      |

| Sample ID: <b>lcs-53058</b>   | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |      |                     |           |      |          |      |
|-------------------------------|---------------------------------|-----|-----------|-------------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>53058</b>          |     |           | RunNo: <b>69621</b>                                   |      |                     |           |      |          |      |
| Prep Date: <b>6/12/2020</b>   | Analysis Date: <b>6/13/2020</b> |     |           | SeqNo: <b>2416457</b>                                 |      | Units: <b>mg/Kg</b> |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value | SPK Ref Val                                           | %REC | LowLimit            | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 23                              | 5.0 | 25.00     | 0                                                     | 90.8 | 70                  | 130       |      |          |      |
| Surr: BFB                     | 500                             |     | 500.0     |                                                       | 100  | 70                  | 130       |      |          |      |

| Sample ID: <b>2006700-007ams</b> | SampType: <b>MS</b>             |     |           | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |      |                     |           |      |          |      |
|----------------------------------|---------------------------------|-----|-----------|-------------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Client ID: <b>BS20-07 6"</b>     | Batch ID: <b>53058</b>          |     |           | RunNo: <b>69621</b>                                   |      |                     |           |      |          |      |
| Prep Date: <b>6/12/2020</b>      | Analysis Date: <b>6/13/2020</b> |     |           | SeqNo: <b>2416460</b>                                 |      | Units: <b>mg/Kg</b> |           |      |          |      |
| Analyte                          | Result                          | PQL | SPK value | SPK Ref Val                                           | %REC | LowLimit            | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)    | 18                              | 4.8 | 24.25     | 0                                                     | 76.0 | 70                  | 130       |      |          |      |
| Surr: BFB                        | 500                             |     | 485.0     |                                                       | 102  | 70                  | 130       |      |          |      |

| Sample ID: <b>2006700-007amsd</b> | SampType: <b>MSD</b>            |     |           | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |      |                     |           |      |          |      |
|-----------------------------------|---------------------------------|-----|-----------|-------------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Client ID: <b>BS20-07 6"</b>      | Batch ID: <b>53058</b>          |     |           | RunNo: <b>69621</b>                                   |      |                     |           |      |          |      |
| Prep Date: <b>6/12/2020</b>       | Analysis Date: <b>6/14/2020</b> |     |           | SeqNo: <b>2416461</b>                                 |      | Units: <b>mg/Kg</b> |           |      |          |      |
| Analyte                           | Result                          | PQL | SPK value | SPK Ref Val                                           | %REC | LowLimit            | HighLimit | %RPD | RPDLimit | Qual |

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2006700

22-Jun-20

**Client:** Devon Energy**Project:** Fighting Okra 18 Fed Com #001

| Sample ID: <b>2006700-007amsd</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|-------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS20-07 6"</b>      | Batch ID: <b>53058</b>          | RunNo: <b>69621</b>                                   |                     |             |      |          |           |      |          |      |
| Prep Date: <b>6/12/2020</b>       | Analysis Date: <b>6/14/2020</b> | SeqNo: <b>2416461</b>                                 | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                                   | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)     | 18                              | 4.9                                                   | 24.61               | 0           | 72.9 | 70       | 130       | 2.72 | 20       |      |
| Surr: BFB                         | 500                             |                                                       | 492.1               |             | 102  | 70       | 130       | 0    | 0        |      |

| Sample ID: <b>mb-53061</b>    | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|-------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>53061</b>          | RunNo: <b>69639</b>                                   |                     |             |      |          |           |      |          |      |
| Prep Date: <b>6/13/2020</b>   | Analysis Date: <b>6/14/2020</b> | SeqNo: <b>2417291</b>                                 | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                          | PQL                                                   | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                              | 5.0                                                   |                     |             |      |          |           |      |          |      |
| Surr: BFB                     | 510                             |                                                       | 500.0               |             | 102  | 70       | 130       |      |          |      |

| Sample ID: <b>lcs-53061</b>   | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|-------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>53061</b>          | RunNo: <b>69639</b>                                   |                     |             |      |          |           |      |          |      |
| Prep Date: <b>6/13/2020</b>   | Analysis Date: <b>6/14/2020</b> | SeqNo: <b>2417292</b>                                 | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                          | PQL                                                   | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 22                              | 5.0                                                   | 25.00               | 0           | 88.5 | 70       | 130       |      |          |      |
| Surr: BFB                     | 500                             |                                                       | 500.0               |             | 99.1 | 70       | 130       |      |          |      |

| Sample ID: <b>2006700-027ams</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|-------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>WS20-02</b>        | Batch ID: <b>53061</b>          | RunNo: <b>69639</b>                                   |                     |             |      |          |           |      |          |      |
| Prep Date: <b>6/13/2020</b>      | Analysis Date: <b>6/14/2020</b> | SeqNo: <b>2417295</b>                                 | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                                   | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)    | 18                              | 5.0                                                   | 24.88               | 0           | 72.4 | 70       | 130       |      |          |      |
| Surr: BFB                        | 500                             |                                                       | 497.5               |             | 100  | 70       | 130       |      |          |      |

| Sample ID: <b>2006700-027amsd</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|-------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>WS20-02</b>         | Batch ID: <b>53061</b>          | RunNo: <b>69639</b>                                   |                     |             |      |          |           |      |          |      |
| Prep Date: <b>6/13/2020</b>       | Analysis Date: <b>6/14/2020</b> | SeqNo: <b>2417296</b>                                 | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                                   | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)     | 19                              | 4.9                                                   | 24.58               | 0           | 76.1 | 70       | 130       | 3.72 | 20       |      |
| Surr: BFB                         | 470                             |                                                       | 491.6               |             | 96.3 | 70       | 130       | 0    | 0        |      |

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: DEVON ENERGY

Work Order Number: 2006700

RcptNo: 1

Received By: Michelle Garcia

6/12/2020 9:35:00 AM

*Michelle Garcia*

Completed By: Juan Rojas

6/12/2020 11:10:59 AM

*Juan Rojas*

Reviewed By: DAD 6/12/20

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace  $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

( $<2$  or  $>12$  unless noted)

Adjusted? \_\_\_\_\_

Checked by: *mg* 6/12/20

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

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

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

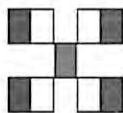
Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

### 17. Cooler Information

| Cooler No | Temp $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1         | 1.2                     | Good      |             |         |           |           |



**HALL ENVIRONMENTAL  
ANALYSIS LABORATORY**

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

## Analysis Request

| Chain-of-Custody Record                                         |      |                                                            |             |                      |                   |          |  |  |  |
|-----------------------------------------------------------------|------|------------------------------------------------------------|-------------|----------------------|-------------------|----------|--|--|--|
| Client: <u>Devon Energy</u>                                     |      |                                                            |             |                      |                   |          |  |  |  |
| Mailing Address: <u>ON FILE</u>                                 |      |                                                            |             |                      |                   |          |  |  |  |
| Phone #: <u>                    </u>                            |      |                                                            |             |                      |                   |          |  |  |  |
| email or Fax#: <u>                    </u>                      |      |                                                            |             |                      |                   |          |  |  |  |
| QA/QC Package: <u>                    </u>                      |      |                                                            |             |                      |                   |          |  |  |  |
| <input type="checkbox"/> Standard                               |      | <input type="checkbox"/> Level 4 (Full Validation)         |             |                      |                   |          |  |  |  |
| Accreditation: <input type="checkbox"/> Az Compliance           |      |                                                            |             |                      |                   |          |  |  |  |
| <input type="checkbox"/> NELAC                                  |      | <input type="checkbox"/> Other <u>                    </u> |             |                      |                   |          |  |  |  |
| <input type="checkbox"/> EDD (Type) <u>                    </u> |      |                                                            |             |                      |                   |          |  |  |  |
| Date                                                            | Time | Matrix                                                     | Sample Name | Container Type and # | Preservative Type | HEAL No. |  |  |  |
| 6/11/20                                                         |      | Soil                                                       | BS20-01 6"  | 402 jar              | ice               | 2006700  |  |  |  |
|                                                                 |      |                                                            | BS20-02 6"  |                      |                   | -001     |  |  |  |
|                                                                 |      |                                                            | BS20-03 6"  |                      |                   | -002     |  |  |  |
|                                                                 |      |                                                            | BS20-04 6"  |                      |                   | -003     |  |  |  |
|                                                                 |      |                                                            | BS20-05 6"  |                      |                   | -004     |  |  |  |
|                                                                 |      |                                                            | BS20-06 6"  |                      |                   | -005     |  |  |  |
|                                                                 |      |                                                            | BS20-07 6"  |                      |                   | -006     |  |  |  |
|                                                                 |      |                                                            | BS20-08 6"  |                      |                   | -007     |  |  |  |
|                                                                 |      |                                                            | BS20-09 6"  |                      |                   | -008     |  |  |  |
|                                                                 |      |                                                            | BS20-10 6"  |                      |                   | -009     |  |  |  |
|                                                                 |      |                                                            | BS20-11 6"  |                      |                   | -010     |  |  |  |
|                                                                 |      |                                                            | BS20-12 6"  |                      |                   | -011     |  |  |  |
|                                                                 |      |                                                            |             |                      |                   | -012     |  |  |  |

Turn-Around Time: 5 DAY TURN

☒ Standard
 ☐ Rush

Project Name: Fighting Okra 18 Fed Can #201

Project #: 20842339

Project Manager: Natalie Gordon

Sampler: Kevin Smith  
 On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 1.1 + D.1 CF = 1.2 (°C)

| Container Type and # | Preservative Type | HEAL No. |
|----------------------|-------------------|----------|
| 402 jar              | ice               | 2006700  |
|                      |                   | -001     |
|                      |                   | -002     |
|                      |                   | -003     |
|                      |                   | -004     |
|                      |                   | -005     |
|                      |                   | -006     |
|                      |                   | -007     |
|                      |                   | -008     |
|                      |                   | -009     |
|                      |                   | -010     |
|                      |                   | -011     |
|                      |                   | -012     |

Received by: [Signature]

Date: 6/11/20 Time: 1815

Received by: [Signature]

Date: 6/11/20 Time: 0935

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Page 3 of 3

## Chain-of-Custody Record

Client:

Devon Energy

Mailing Address:

ON FILE

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard☐ Level 4 (Full Validation)

Accreditation:

☐ Az Compliance☐ NELAC☐ Other☐ EDD (Type)

Date

6/11/20

Time

6:15

Matrix

Soil

Sample Name

BS20-25 6"

Date

6/11/20

Time

6:15

Matrix

Soil

Sample Name

BS20-25 6"

Date

6/11/20

Time

6:15

Matrix

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Date

6/11/20

Time

6:15

Matrix

Soil

Sample Name

BS20-25 6"

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Soil

Sample Name

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