



August 5, 2020

Vertex Project #: 20E-00141-012

Spill Closure Report: Red Bull 31 State #001
Unit N, Section 31, Township 23 South, Range 35 East
County: Lea
API: 30-025-36798
Tracking Number: NOY1703843861

Prepared For: Devon Energy Production Company
6488 Seven Rivers Hwy
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 on January 15, 2017, at Red Bull 31 State #001, API 30-025-36798 (hereafter referred to as “Red Bull”). 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 January 16, 2017, followed by submission of an initial C-141 Release Notification on February 7, 2017 (Attachment 1). The NM OCD tracking number assigned to this incident is NOY1703843861.

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 a final report to obtain approval from NM OCD for closure of this release.

Incident Description

On January 15, 2017, a release occurred at Devon’s Red Bull site when a gasket from the fire tubing of a heater treater failed. This incident resulted in the release of approximately 36 barrels (bbls) of produced water and 22.7 bbls of oil onto the wellpad. Upon discovery of the release, the wellhead and heater treater were shut in, the flowline was isolated to prevent further release, and a hydrovac truck was dispatched to the site to recover free liquids. Approximately 36 bbls of produced water and 22.7 bbls of oil were recovered and removed for disposal off-site. No oil or produced water were released into undisturbed areas or waterways.

Site Characterization

The release at Red Bull occurred on state-owned land, N 32.2574463, W 103.4067612, approximately 15 miles northwest of Jal, New Mexico. The legal description for the site is Unit N, Section 31, Township 23 South, Range 35 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 included in Attachment 2.

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Devon Energy Production Company
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Red Bull 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 surrounding the constructed wellpad.

The surrounding landscape is associated with low knolls, ridges and escarpments common to the plains, and is not prime farmland. The climate is semi-arid, with average annual precipitation ranging between 10 and 12 inches. The historic plant community has had the aspect of a grassland/shrub mix, dominated by black grama and sideoats grama, but with shrubs, such as creosotebush, mesquite and catclaw mimosa, common throughout. Grass cover is fairly uniform; however, surface gravel, cobble and bare ground make up a large percent of the total 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 Red Bull is comprised primarily of Qp – piedmont alluvial deposits from Holocene to lower Pleistocene (New Mexico Bureau of Geology and Mineral Resources, 2020). The National Resources Conservation Service Web Soil Survey determines the soil at the site to be Kimbrough gravelly loam, which is characterized by shallow gravelly loam and loam over cemented material. This type of soil, typically found at elevations of 2,500 to 4,800 feet above sea level, tends to be well-drained with high 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 Red Bull, though some erosional karst is possible (United States Department of the Interior, United States Geological Survey, 2020).

There is no surface water located at Red Bull. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is an intermittent stream located approximately 0.2 miles northwest of the site (United States Fish and Wildlife Service, 2020). At Red Bull, 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 recent well is a 2019 New Mexico Office of the State Engineer (NM OSE) well located 1 mile northeast of the site. Data for that well shows a depth to groundwater of 320 feet below ground surface (bgs). A second NM OSE well, located approximately 3.6 miles west of the site, shows a depth to groundwater of 475 feet 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 Red Bull 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 Red Bull cannot be accurately determined and the closure criteria for the site are determined to be associated with the following constituent concentration limits.

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| 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

Spill inspection, site characterization and remediation activities at Red Bull were completed by Vertex on March 16, 2020. The Daily Field Reports (DFRs) and field screening data associated with the site visits are included in Attachment 4. Using initial soil sampling laboratory data as presented in Table 2 (Attachment 5), the release was delineated as presented on Figure 1 (Attachment 2). The impacted area was determined to be approximately 153 feet long and 180 feet wide; the total affected area was determined to be 8,750 square feet.

Hand excavation of the contaminated soil from the tank battery and a surface scrape of the wellpad was conducted on March 16, 2020, with a Vertex representative on-site to conduct field screening to guide the excavation and determine the final horizontal and vertical extents of the excavation area as presented on Figure 2 (Attachment 2). On June 24, 2020, Vertex provided 48-hour notification of confirmatory sampling to NM OCD (Attachment 6), as required by Subparagraph (a) of Paragraph (1) of Subsection D 19.15.29.12 NMAC. On June 29, 2020, Vertex was on-site to conduct confirmatory sampling. A total of 43 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 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 5). Laboratory data reports and chain of custody forms are included in Attachment 7.

A GeoExplorer 7000 Series Trimble GPS unit, or equivalent, was used to map the approximate center of each of the five-point composite samples. The confirmatory sampling locations are presented on Figure 2 (Attachment 2).

Closure Request

Vertex recommends no additional remediation action to address the release at Red Bull. Laboratory analyses of the confirmatory samples showed constituent of concern concentration levels below NM OCD closure criteria for areas where depth to groundwater is less than 50 feet. There are no anticipated risks to human, ecological or hydrological receptors associated with the release site.

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Vertex requests that this incident (NOY1703843861) 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 January 15, 2017, release at Red Bull.

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 Research Determination Documentation
- Attachment 4. Daily Field Report(s) with Photographs
- Attachment 5. Characterization and Confirmatory Sampling Laboratory Data Tables
- Attachment 6. Required 48-hr Notification of Confirmatory Sampling to Regulatory Agencies
- Attachment 7. Laboratory Data Reports/Chain of Custody Forms

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Red Bull 31 State #001

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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, 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, United States Geological Survey. (2020). *Caves and Karst in the U.S. National Park Service*. Retrieved from <https://www.arcgis.com/home/webmap/viewer.html?webmap=14675403c37948129acb758138f2dd1e>
- United States Fish and Wildlife Service. (2020). *National Wetlands Inventory*. Retrieved from <https://www.fws.gov/wetlands/data/Mapper.html>

Devon Energy Production Company
Red Bull 31 State #001

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

| | |
|--|--|
| Name of Company Devon Energy Production Company | Contact Randy Gladden, Production Foreman |
| Address 6488 Seven Rivers Hwy Artesia, NM 88210 | Telephone No. 575.513.9463 |
| Facility Name Red Bull 31 State 1 | Facility Type Gas Well |
| Surface Owner State | Mineral Owner State |
| API No 30-025-36798 | |

LOCATION OF RELEASE

| | | | | | | | | |
|------------------|---------------|-----------------|--------------|-----------------------|-------------------------|-----------------------|-----------------------|---------------|
| Unit Letter N | Section 31 | Township 23S | Range 35E | Feet from the 1300 | North/South Line FSL | Feet from the 2610 | East/West Line FWL | County Lea |
|------------------|---------------|-----------------|--------------|-----------------------|-------------------------|-----------------------|-----------------------|---------------|

Latitude: 32.2574463

Longitude: -103.4067612

NATURE OF RELEASE

| | | |
|---|---|--|
| Type of Release Produced Water (PW) & Oil | Volume of Release 36BBLS PW, 22.7BBLS Oil | Volume Recovered 36BBLS. 22.7BBLS & 2.3BBLS Rainwater |
| Source of Release Burner gasket | Date and Hour of Occurrence 1/15/2017 @ 8:25AM | Date and Hour of Discovery 1/15/2017 @8:25AM |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? BLM-Shelly Tucker OCD-Olivia Yu | |
| By Whom? Rebecca Jamison, Assistant Foreman | Date and Hour BLM-1/16/2017@1048AM OCD-1/16/2017@10:39AM | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse N/A | |
| If a Watercourse was Impacted, Describe Fully.* N/A | | |

RECEIVED

By Olivia Yu at 12:08 pm, Feb 07, 2017

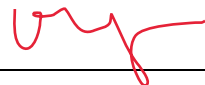
Describe Cause of Problem and Remedial Action Taken.*

The gasket from the fire tubing failed causing the fluid to spill out on location. The wellhead and the heater treater were both shut in and the flowline was isolated to prevent further release. Repairs were made.

Describe Area Affected and Cleanup Action Taken.*

Approximately 36BBLS PW and 22BBLS Oil was released from the heater gasket failure. The release flowed in a southeastern direction. The size of the total affected area was approximately 50ft by 150ft. Approximately 36BBLS produced water, 22.7BBLS Oil and 2.3BBLS Rainwater were recovered. An environmental agency will be contacted for remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

| | | |
|---|--|---|
| Signature: Dana DeLaRosa | OIL CONSERVATION DIVISION | |
| Printed Name: Dana DeLaRosa | Approved by Environmental Specialist:  | |
| Title: Field Admin Support | Approval Date: 2/7/2017 | Expiration Date: |
| E-mail Address: dana.delarosa@dvn.com | Conditions of Approval: see attached directive | Attached <input checked="" type="checkbox"/> |
| Date: 1/24/2017 Phone: 575.746.5594 | | |

* Attach Additional Sheets If Necessary

1RP-4584

nOY1703843861

pOY1703844234

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 1/24/2017 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1R-4584 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 1 office in Hobbs on or before 3/7/2017. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

| | |
|----------------|---------------|
| Incident ID | NOY1703843861 |
| District RP | |
| Facility ID | |
| Application ID | |

Site Assessment/Characterization

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

| | |
|---|---|
| What is the shallowest depth to groundwater beneath the area affected by the release? | <u><50</u> (ft bgs) |
| Did this release impact groundwater or surface water? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas not on an exploration, development, production, or storage site? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

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

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

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

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

State of New Mexico
Oil Conservation Division

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

Printed Name: Tom Bynum Title: EHS Consultant

Signature: Tom Bynum Date: 8/6/2020

email: tom.bynum@dnv.com Telephone: 575-748-0176

OCD Only

Received by: _____ Date: _____

| | |
|----------------|---------------|
| Incident ID | NOY1703843861 |
| 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: 8/6/2020

email: tom.bynum@dvn.com Telephone: 575-748-0176

OCD Only

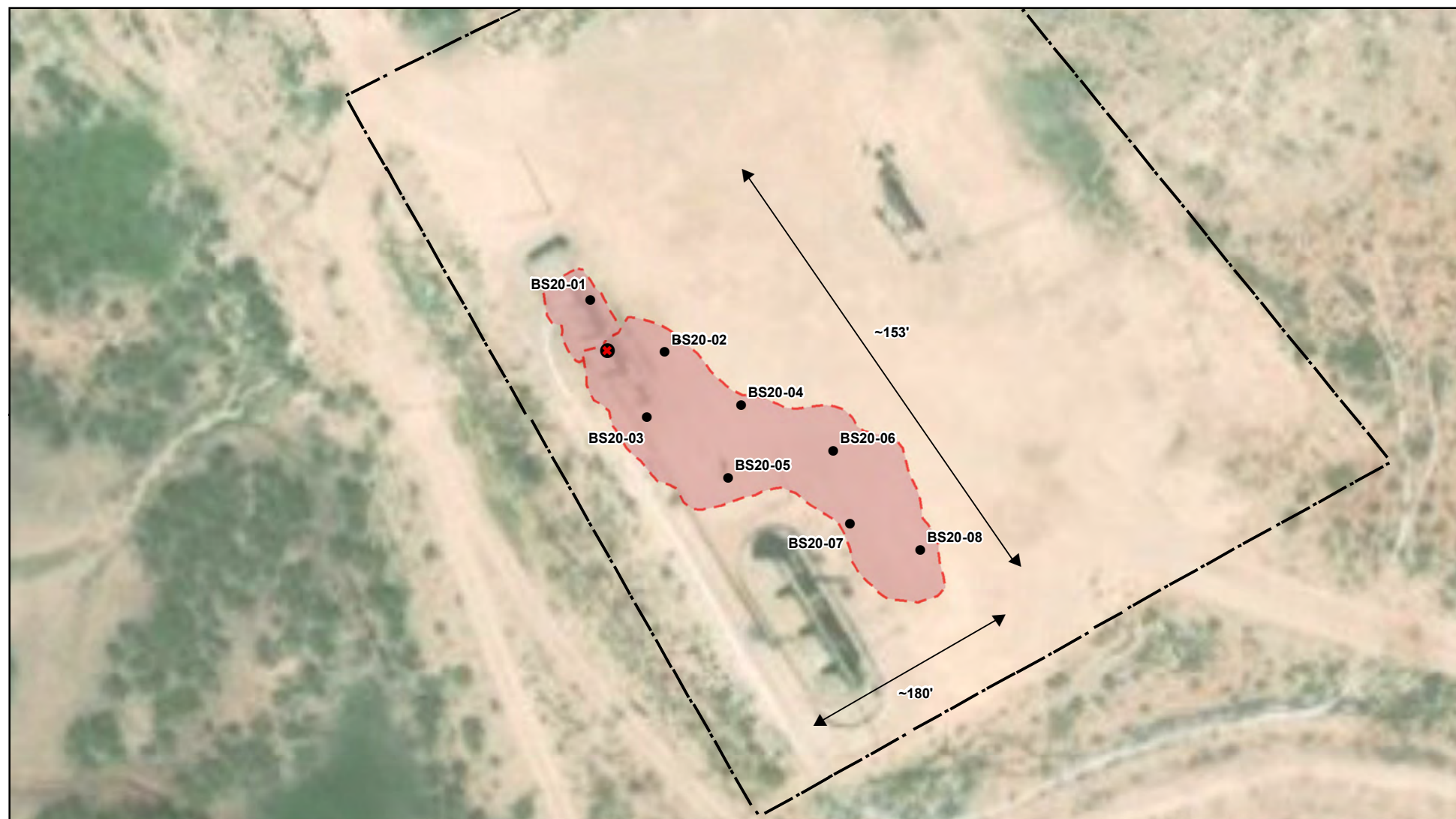
Received by: _____ Date: _____

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: Brittany Hall Date: 9/19/2022

Printed Name: Brittany Hall Title: Environmental Specialist

ATTACHMENT 2



- Base Sample
- ✖ Point of Release
- Spill Area (~8,750 sq ft)

Approximate Lease Boundary



0 25 50 Feet
Map Center:
Lat/Long: 32.257205, -103.407048

NAD 1983 UTM Zone 13N
Date: Mar 23/20



Site Schematic and Characterization Sampling Locations Red Bull 31 State #001

FIGURE:

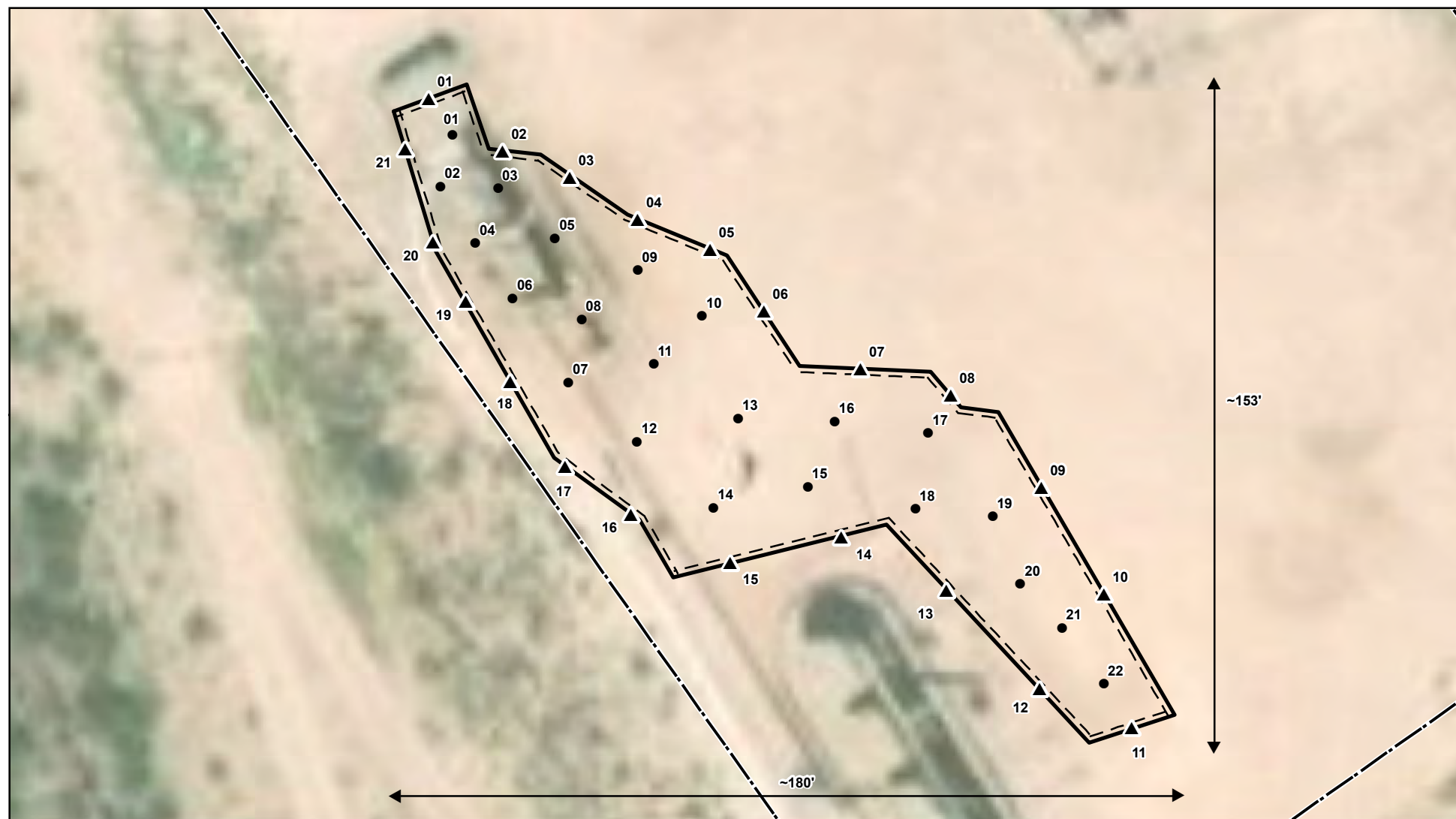
1



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 ESRI, 2018.

VERSATILITY. EXPERTISE.



- Base Sample (Prefixed by "BS20-")
- ▲ Wall Sample (Prefixed by "WS20-")
-  Approximate Excavation Boundary (~8,750 sq.ft.)
-  Approximate Lease Boundary



0 15 30 ft.
Map Center:
Lat/Long: 32.257177, -103.407076

NAD 1983 UTM Zone 13N
Date: Jun 30/20



Confirmatory Sampling Locations Red Bull 31 State #001

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 ESRI, 2018.

VERSATILITY. EXPERTISE.

ATTACHMENT 3

| Closure Criteria Worksheet | | | |
|---|---|---------------|-----------------------------------|
| Site Name: Red Bull 31 State 1 | | | |
| Spill Coordinates: | | X: 32.2574463 | Y: -103.4067612 |
| Site Specific Conditions | | Value | Unit |
| 1 | Depth to Groundwater | 329 | feet |
| 2 | Within 300 feet of any continuously flowing watercourse or any other significant watercourse | 175,244 | feet |
| 3 | Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark) | 24,763 | feet |
| 4 | Within 300 feet from an occupied residence, school, hospital, institution or church | 19,879 | 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 | 4,612 | feet |
| | ii) Within 1000 feet of any fresh water well or spring | 4,612 | 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 | 544 | feet |
| 8 | Within the area overlying a subsurface mine | No | (Y/N) |
| 9 | Within an unstable area (Karst Map) | Low | Critical High Medium Low |
| 10 | Within a 100-year Floodplain | undetermined | year |
| NMAC 19.15.29.12 E (Table 1) Closure Criteria | | >100' | <50' 51-100' >100' |



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 |
|-------------------------------|--------------|-------|--------|------|------|-----|-----|-----|-----|--------|----------|----------|------------|-------------|--------------|
| CP 00614 POD2 | CP | LE | | 4 | 3 | 3 | 29 | 23S | 35E | 651102 | 3571401 | 1667 | 440 | 320 | 120 |
| CP 01099 POD2 | CP | LE | | 1 | 1 | 1 | 28 | 23S | 35E | 652471 | 3572934 | 3721 | 750 | 120 | 630 |
| CP 01100 POD2 | CP | LE | | | 2 | 1 | 28 | 23S | 35E | 652995 | 3572726 | 3935 | 750 | 125 | 625 |
| C 02387 | CUB | LE | | | | 1 | 11 | 24S | 34E | 646513 | 3567613* | 4337 | 62 | 40 | 22 |
| CP 00580 | CP | LE | | 3 | 4 | 3 | 23 | 23S | 34E | 646524 | 3572948* | 4561 | 220 | | |
| CP 00366 POD1 | CP | LE | | 4 | 1 | 1 | 10 | 24S | 35E | 654447 | 3567834* | 4916 | 1250 | | |
| CP 01513 POD1 | CP | LE | | 3 | 3 | 1 | 10 | 24S | 35E | 654184 | 3567350 | 4935 | 186 | | |

Average Depth to Water: **151 feet**

Minimum Depth: **40 feet**

Maximum Depth: **320 feet**

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 650076.31

Northing (Y): 3570086

Radius: 5000

*UTM location was derived from PLSS - see Help

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1/29/20 4:28 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Red Bull 31 State 1



6/24/2020, 4:35:55 PM

OSE District Boundary

Active

Pending

Conveyances

Acequia

Acequia Tunnel

Canal

Channel

Closed Drain

Community Ditch

Connector

Culvert

Ditch

Diversion Weir

Drain

Feeder

Interior Drain

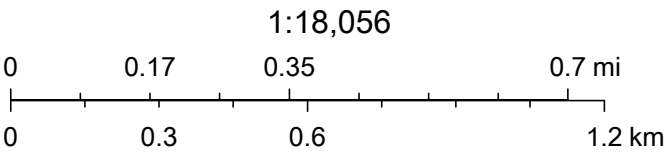
Lateral

Pipe

Wasteway

Other

Unknown



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

| Well Tag | POD Number | Q64 | Q16 | Q4 | Sec | Tws | Rng | X | Y |
|----------|---------------|-----|-----|----|-----|-----|-----|--------|---------|
| 221BF | CP 00614 POD2 | 4 | 3 | 3 | 29 | 23S | 35E | 651102 | 3571401 |

x

Driller License: 1706 **Driller Company:** ELITE DRILLERS CORPORATION

Driller Name: WALLACE, BRYCE J.LEE.NER

| | | |
|-------------------------------------|--------------------------------------|--------------------------------|
| Drill Start Date: 11/20/2018 | Drill Finish Date: 11/23/2018 | Plug Date: |
| Log File Date: 03/01/2019 | PCW Rcv Date: | Source: Shallow |
| Pump Type: | Pipe Discharge Size: | Estimated Yield: 35 GPM |
| Casing Size: 7.60 | Depth Well: 440 feet | Depth Water: 320 feet |

x

| Water Bearing Stratifications: | Top | Bottom | Description |
|--------------------------------|-----|--------|-------------------------------|
| | 250 | 360 | Sandstone/Gravel/Conglomerate |
| | 360 | 390 | Sandstone/Gravel/Conglomerate |
| | 390 | 420 | Sandstone/Gravel/Conglomerate |

x

| Casing Perforations: | Top | Bottom |
|----------------------|-----|--------|
| | 300 | 440 |

x

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6/24/20 4:34 PM

POINT OF DIVERSION SUMMARY

Red Bull 31 State 1-0475



6/24/2020, 4:43:01 PM

OSE District Boundary

GIS WATERS PODs

- Active
- Pending
- Plugged

Conveyances

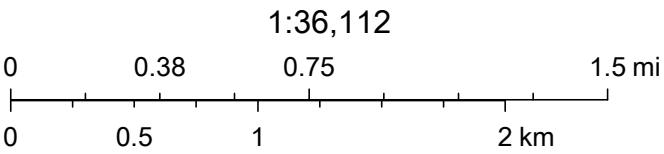
- Acequia
- Acequia Tunnel

- Canal
- Channel
- Closed Drain
- Community Ditch

- Connector
- Culvert
- Ditch
- Diversion Weir

- Drain
- Feeder
- Interior Drain
- Lateral

- Pipe
- Wasteway
- Other
- Unknown



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

C 02386

Q64 Q16 Q4 Sec Tws Rng

4 1 2 04 24S 34E

X**Y**

643962 3569290*

x

Driller License:**Driller Company:****Driller Name:** SHELL OIL**Drill Start Date:****Drill Finish Date:** 01/31/1960**Plug Date:****Log File Date:****PCW Rcv Date:****Source:** Shallow**Pump Type:****Pipe Discharge Size:****Estimated Yield:** 30 GPM**Casing Size:** 5.00**Depth Well:** 575 feet**Depth Water:** 475 feet

x

Meter Number: 17869**Meter Make:** NEPTUNE**Meter Serial Number:** 70241623**Meter Multiplier:** 100.0000**Number of Dials:** 6**Meter Type:** Diversion**Unit of Measure:** Gallons**Return Flow Percent:****Usage Multiplier:****Reading Frequency:** Quarterly

x

Meter Readings (in Acre-Feet)

| Read Date | Year | Mtr Reading | Flag | Rdr | Comment | Mtr Amount Online |
|------------|------|-------------|------|-----|---------|-------------------|
| 12/01/2018 | 2018 | 206390 | A | RPT | | 0 |

x

| **YTD Meter Amounts: | Year | Amount |
|----------------------|------|--------|
| | 2018 | 0 |

x

*UTM location was derived from PLSS - see Help

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6/24/20 4:44 PM


POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

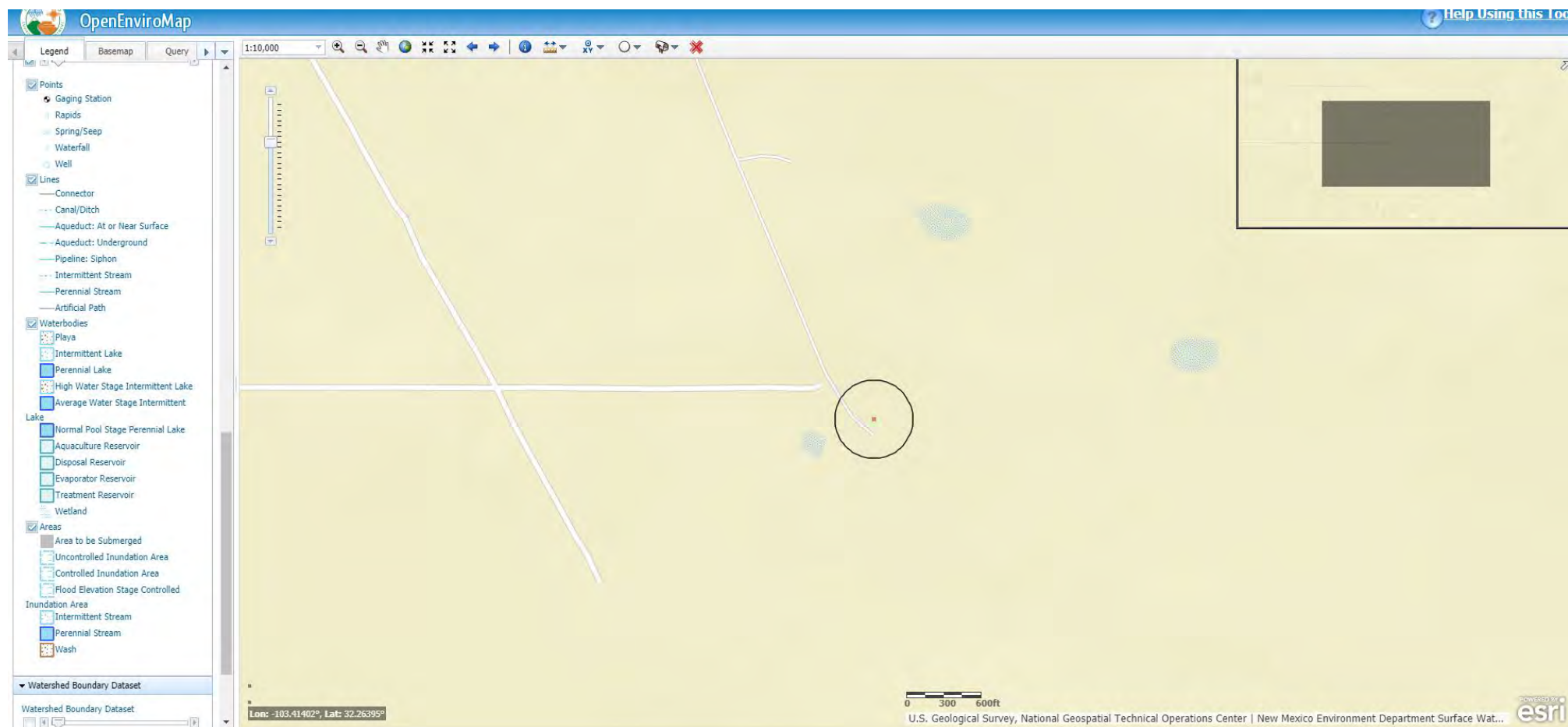
(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

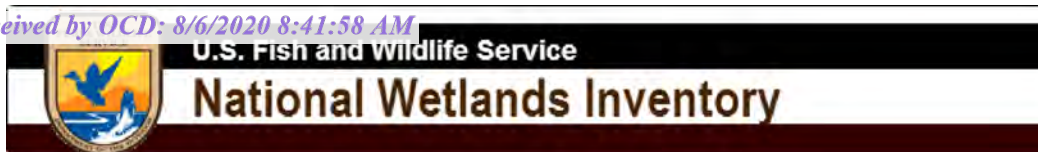
| Well Tag | POD Number | Q64 | Q16 | Q4 | Sec | Tws | Rng | X | Y |
|----------|---------------|-----|-----|----|-----|-----|-----|--------|---|
| 221BF | CP 00614 POD2 | 4 | 3 | 3 | 29 | 23S | 35E | 651102 | 3571401  |

| | |
|---|--|
| Driller License: 1706 | Driller Company: ELITE DRILLERS CORPORATION |
| Driller Name: WALLACE, BRYCE J.LEE.NER | |
| Drill Start Date: 11/20/2018 | Drill Finish Date: 11/23/2018 |
| Log File Date: 03/01/2019 | PCW Rcv Date: |
| Pump Type: | Source: Shallow |
| Casing Size: 7.60 | Estimated Yield: 35 GPM |
| | Depth Well: 440 feet |
| | Depth Water: 320 feet |

| Water Bearing Stratifications: | Top | Bottom | Description |
|--------------------------------|-----|--------|-------------------------------|
| | 250 | 360 | Sandstone/Gravel/Conglomerate |
| | 360 | 390 | Sandstone/Gravel/Conglomerate |
| | 390 | 420 | Sandstone/Gravel/Conglomerate |

| Casing Perforations: | Top | Bottom |
|----------------------|-----|--------|
| | 300 | 440 |





Red Bull 31 Watercourse 175,244 ft



January 30, 2020

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

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.



Red Bull 31 Lake 24,763 ft.



January 30, 2020

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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


- Lake
- Other
- Riverine

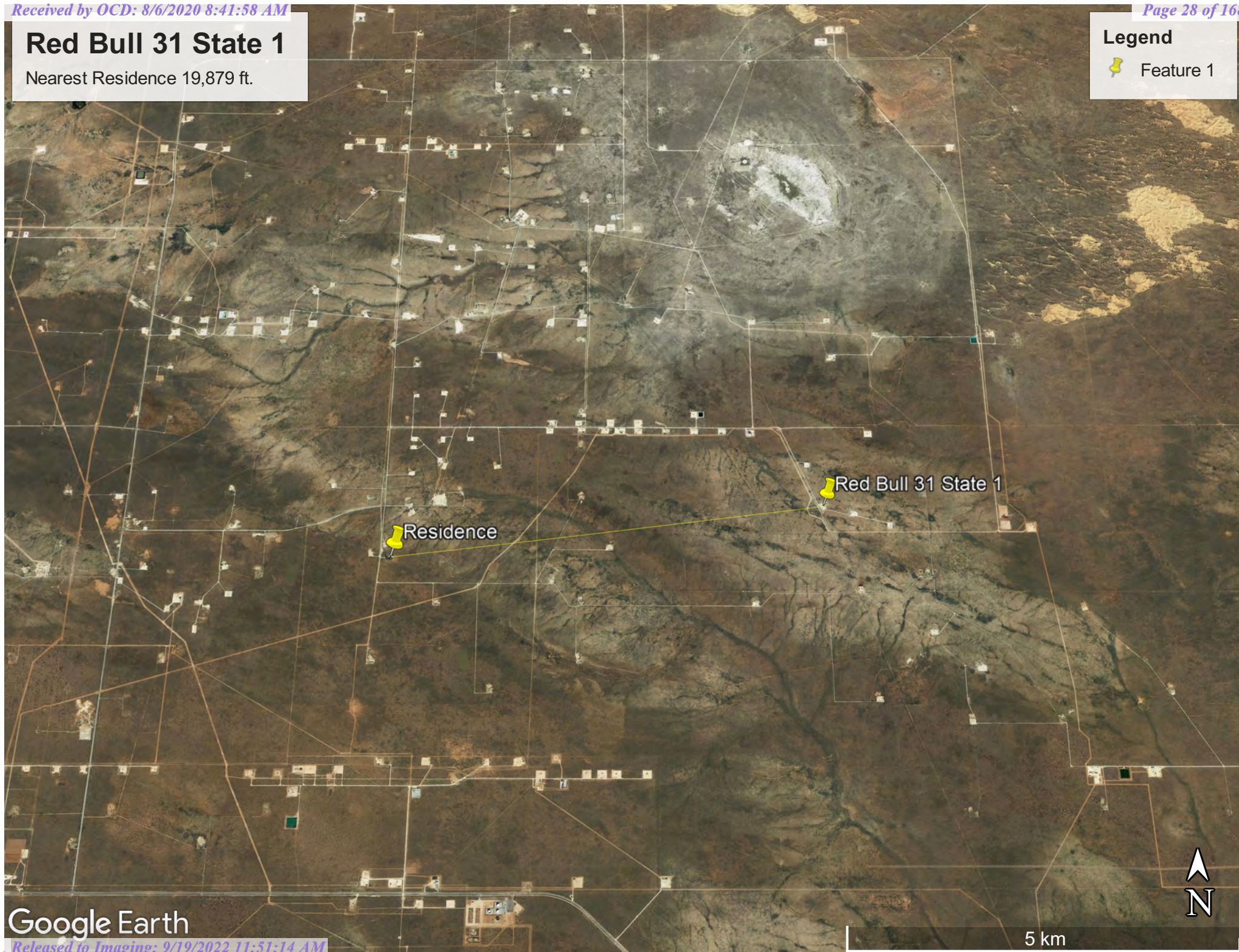
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Red Bull 31 State 1

Nearest Residence 19,879 ft.

Legend

 Feature 1



Google Earth


















5 km



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 basin | Use | Diversion | Owner | County | POD Number | Well Tag | Code | Grant | Source | q 64 | q 16 | q 4 | Sec | Tws | Rng | X | Y | Distance |
| CP 01197 | CP | COM | 150 | GENERAL COUNSEL OFFICE | LE | CP 01197 POD1 | | | | | 1 | 3 | 06 | 24S | 35E | | 649528 | 3568790 |  1406 |
| CP 00614 | CP | COM | 80 | LIMESTONE BASIN PROPERTIES | LE | CP 00614 POD1 | | | | Shallow | 4 | 3 | 3 | 29 | 23S | 35E | 651091 | 3571382 |  1646 |
| | | | | | LE | CP 00614 POD2 | 221BF | | | Shallow | 4 | 3 | 3 | 29 | 23S | 35E | 651102 | 3571401 |  1667 |
| CP 01708 | CP | EXP | 0 | LIMESTONE LIVESTOCK LLC | LE | CP 01708 POD1 | NA | | | | 2 | 1 | 36 | 23S | 34E | | 648262 | 3571205 |  2130 |
| CP 01709 | CP | COM | 200 | LIMESTONE BASIN PROPERTIES | LE | CP 01708 POD1 | NA | | | | 2 | 1 | 36 | 23S | 34E | | 648262 | 3571205 |  2130 |
| CP 00433 | CP | AGR | 0 | LBM CATTLE COMPANY, INC. | LE | CP 00433 POD2 | | | | | 1 | 1 | 28 | 23S | 35E | | 652662 | 3572736* |  3702 |
| CP 01099 | CP | COM | 80 | LIMESTONE BASIN PROPERTIES | LE | CP 01099 POD1 | | | | | 1 | 1 | 1 | 28 | 23S | 35E | 652466 | 3572927 |  3713 |
| | | | | | LE | CP 01099 POD2 | 221C0 | | | Shallow | 1 | 1 | 1 | 28 | 23S | 35E | 652471 | 3572934 |  3721 |
| CP 01100 | CP | COM | 80 | LIMESTONE BASIN PROPERTIES | LE | CP 01100 POD2 | 221C1 | | | Artesian | 2 | 1 | 28 | 23S | 35E | | 652995 | 3572726 |  3935 |
| | | | | | LE | CP 01100 POD1 | | | | | 2 | 1 | 28 | 23S | 35E | | 653042 | 3572739 |  3979 |
| CP 00433 | CP | AGR | 0 | LBM CATTLE COMPANY, INC. | LE | CP 00433 POD1 | | | | | 2 | 1 | 28 | 23S | 35E | | 653065 | 3572743* |  3998 |
| C 02387 | CUB | STK | 3 | QUAIL RANCH LLC GENERAL COUNSEL OFFICE | LE | C 02387 | | | | | 1 | 11 | 24S | 34E | | | 646513 | 3567613* |  4337 |
| CP 00580 | CP | PRO | 0 | NATOMAS NORTH AMERICA INC | LE | CP 00580 | | | | Shallow | 3 | 4 | 3 | 23 | 23S | 34E | 646524 | 3572948* |  4561 |
| CP 00366 | CP | COM | 2.5 | JOHN E. POST | LE | CP 00366 POD1 | | | | | 4 | 1 | 1 | 10 | 24S | 35E | 654447 | 3567834* |  4916 |
| CP 01628 | CP | PLS | 3.1 | JOHN E. POST | LE | CP 00366 POD1 | | | | | 4 | 1 | 1 | 10 | 24S | 35E | 654447 | 3567834* |  4916 |
| CP 01513 | CP | STK | 3 | JAL PUBLIC LIBRARY FUND | LE | CP 01513 POD1 | | | | Shallow | 3 | 3 | 1 | 10 | 24S | 35E | 654184 | 3567350 |  4935 |
| CP 00365 | CP | PLS | 3 | JOHN E. POST | LE | CP 00365 POD1 | | | | | 3 | 3 | 1 | 10 | 24S | 35E | 654253 | 3567431* |  4949 |

*UTM location was derived from PLSS - see Help

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Record Count: 17

UTMNAD83 Radius Search (in meters):

Easting (X): 650076.31 **Northing (Y):** 3570086 **Radius:** 5000

Sorted by: Distance



U.S. Fish and Wildlife Service

National Wetlands Inventory

Red Bull 31 Wetland 544 ft.



January 30, 2020

Wetlands

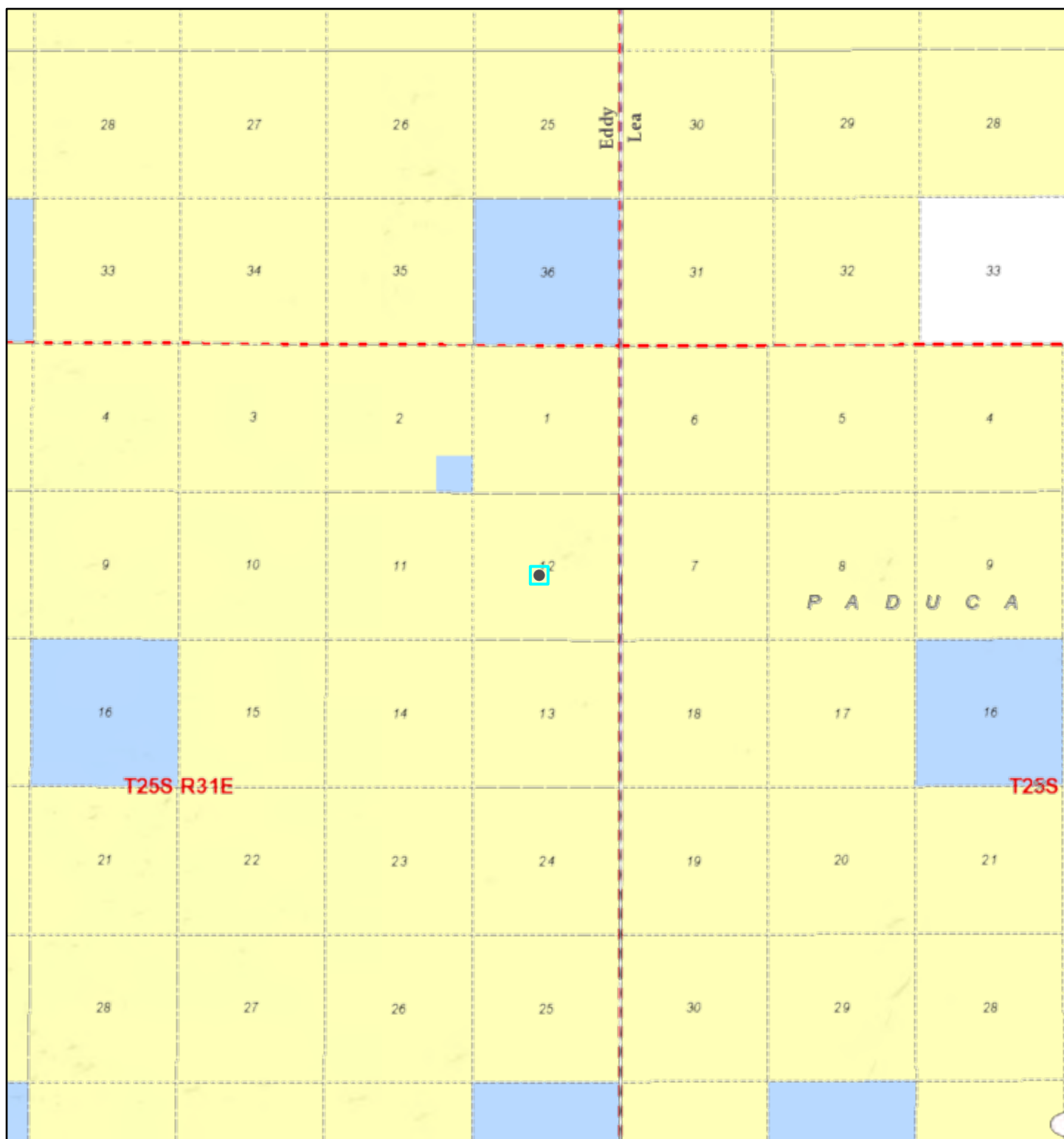
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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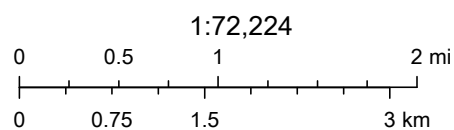
Active Mines in New Mexico



2/5/2020, 12:06:43 PM

Registered Mines

✕ Aggregate, Stone etc.



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

EMNRD MMD GIS Coordinator

National Flood Hazard Layer FIRMette



32°15'42.02"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000

32°15'11.59"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 |
| 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 1/30/2020 at 10:59:14 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.



United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for **Lea County, New Mexico**



January 30, 2020

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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 Map Unit Descriptions.....11

 Lea County, New Mexico..... 13

 KO—Kimbrough gravelly loam, dry, 0 to 3 percent slopes..... 13

References..... 15

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

Custom Soil Resource Report

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.


Custom Soil Resource Report Soil Map



Custom Soil Resource Report

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.

Custom Soil Resource Report

Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|------------------------------------|---|--------------|----------------|
| KO | Kimbrough gravelly loam, dry, 0 to 3 percent slopes | 4.3 | 100.0% |
| Totals for Area of Interest | | 4.3 | 100.0% |

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Custom Soil Resource Report

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Custom Soil Resource Report

Lea County, New Mexico

KO—Kimbrough gravelly loam, dry, 0 to 3 percent slopes**Map Unit Setting***National map unit symbol:* 2tw43*Elevation:* 2,500 to 4,800 feet*Mean annual precipitation:* 14 to 16 inches*Mean annual air temperature:* 57 to 63 degrees F*Frost-free period:* 180 to 220 days*Farmland classification:* Not prime farmland**Map Unit Composition***Kimbrough, dry, and similar soils:* 80 percent*Minor components:* 20 percent*Estimates are based on observations, descriptions, and transects of the mapunit.***Description of Kimbrough, Dry****Setting***Landform:* Plains, playa rims*Down-slope shape:* Linear, convex*Across-slope shape:* Linear, concave*Parent material:* Loamy eolian deposits derived from sedimentary rock**Typical profile***A - 0 to 3 inches:* gravelly loam*Bw - 3 to 10 inches:* loam*Bkkm1 - 10 to 16 inches:* cemented material*Bkkm2 - 16 to 80 inches:* cemented material**Properties and qualities***Slope:* 0 to 3 percent*Depth to restrictive feature:* 4 to 18 inches to petrocalcic*Natural drainage class:* Well drained*Runoff class:* High*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.01 in/hr)*Depth to water table:* More than 80 inches*Frequency of flooding:* None*Frequency of ponding:* None*Calcium carbonate, maximum in profile:* 95 percent*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)*Sodium adsorption ratio, maximum in profile:* 1.0*Available water storage in profile:* Very low (about 1.4 inches)**Interpretive groups***Land capability classification (irrigated):* None specified*Land capability classification (nonirrigated):* 7s*Hydrologic Soil Group:* D*Ecological site:* Very Shallow 12-17" PZ (R077DY049TX)*Hydric soil rating:* No

Custom Soil Resource Report

Minor Components

Eunice

Percent of map unit: 10 percent

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Convex

Ecological site: Very Shallow 12-17" PZ (R077DY049TX)

Hydric soil rating: No

Spraberry

Percent of map unit: 6 percent

Landform: Plains, playa rims

Down-slope shape: Linear, convex

Across-slope shape: Linear

Ecological site: Very Shallow 12-17" PZ (R077DY049TX)

Hydric soil rating: No

Kenhill

Percent of map unit: 4 percent

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: Clay Loam 12-17" PZ (R077DY038TX)

Hydric soil rating: No

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- United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. <http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084>

Custom Soil Resource Report

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

| | |
|--|--|
| Name of Company Devon Energy Production Company | Contact Randy Gladden, Production Foreman |
| Address 6488 Seven Rivers Hwy Artesia, NM 88210 | Telephone No. 575.513.9463 |
| Facility Name Red Bull 31 State 1 | Facility Type Gas Well |
| Surface Owner State | Mineral Owner State |
| API No 30-025-36798 | |

LOCATION OF RELEASE

| | | | | | | | | |
|------------------|---------------|-----------------|--------------|-----------------------|-------------------------|-----------------------|-----------------------|---------------|
| Unit Letter N | Section 31 | Township 23S | Range 35E | Feet from the 1300 | North/South Line FSL | Feet from the 2610 | East/West Line FWL | County Lea |
|------------------|---------------|-----------------|--------------|-----------------------|-------------------------|-----------------------|-----------------------|---------------|

Latitude: 32.2574463

Longitude: -103.4067612

NATURE OF RELEASE

| | | |
|---|---|---|
| Type of Release Produced Water (PW) & Oil | Volume of Release 36BBLS PW, 22.7BBLS Oil | Volume Recovered 36BBLS. 22.7BBLS & 2.3BBLS Rainwater |
| Source of Release Burner gasket | Date and Hour of Occurrence 1/15/2017 @ 8:25AM | Date and Hour of Discovery 1/15/2017 @8:25AM |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? BLM-Shelly Tucker OCD-Olivia Yu | |
| By Whom? Rebecca Jamison, Assistant Foreman | Date and Hour BLM-1/16/2017@1048AM OCD-1/16/2017@10:39AM | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse N/A | |

RECEIVED

By Olivia Yu at 12:08 pm, Feb 07, 2017

If a Watercourse was Impacted, Describe Fully.*
N/A

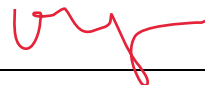
Describe Cause of Problem and Remedial Action Taken.*

The gasket from the fire tubing failed causing the fluid to spill out on location. The wellhead and the heater treater were both shut in and the flowline was isolated to prevent further release. Repairs were made.

Describe Area Affected and Cleanup Action Taken.*

Approximately 36BBLS PW and 22BBLS Oil was released from the heater gasket failure. The release flowed in a southeastern direction. The size of the total affected area was approximately 50ft by 150ft. Approximately 36BBLS produced water, 22.7BBLS Oil and 2.3BBLS Rainwater were recovered. An environmental agency will be contacted for remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

| | | |
|---|--|---|
| Signature: Dana DeLaRosa | OIL CONSERVATION DIVISION | |
| Printed Name: Dana DeLaRosa | Approved by Environmental Specialist:  | |
| Title: Field Admin Support | Approval Date: 2/7/2017 | Expiration Date: |
| E-mail Address: dana.delarosa@dv.com | Conditions of Approval: see attached directive | Attached <input checked="" type="checkbox"/> |
| Date: 1/24/2017 Phone: 575.746.5594 | | |

* Attach Additional Sheets If Necessary

1RP-4584

nOY1703843861

pOY1703844234

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 1/24/2017 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1R-4584 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 1 office in Hobbs on or before 3/7/2017. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

ATTACHMENT 4



Daily Site Visit Report

| | | | |
|-------------------------|-----------------------------|-------------------|-------------------|
| Client: | Devon Energy Corporation | Inspection Date: | 1/31/2020 |
| Site Location Name: | Red Bull 31 State 1 Battery | Report Run Date: | 2/1/2020 11:59 PM |
| Project Owner: | Amanda Davis | File (Project) #: | 20E-00141 |
| Project Manager: | Natalie Gordon | API #: | 30-025-36798 |
| Client Contact Name: | Amanda Davis | Reference | Spill 1RP-4584 |
| Client Contact Phone #: | (575) 748-0176 | | |

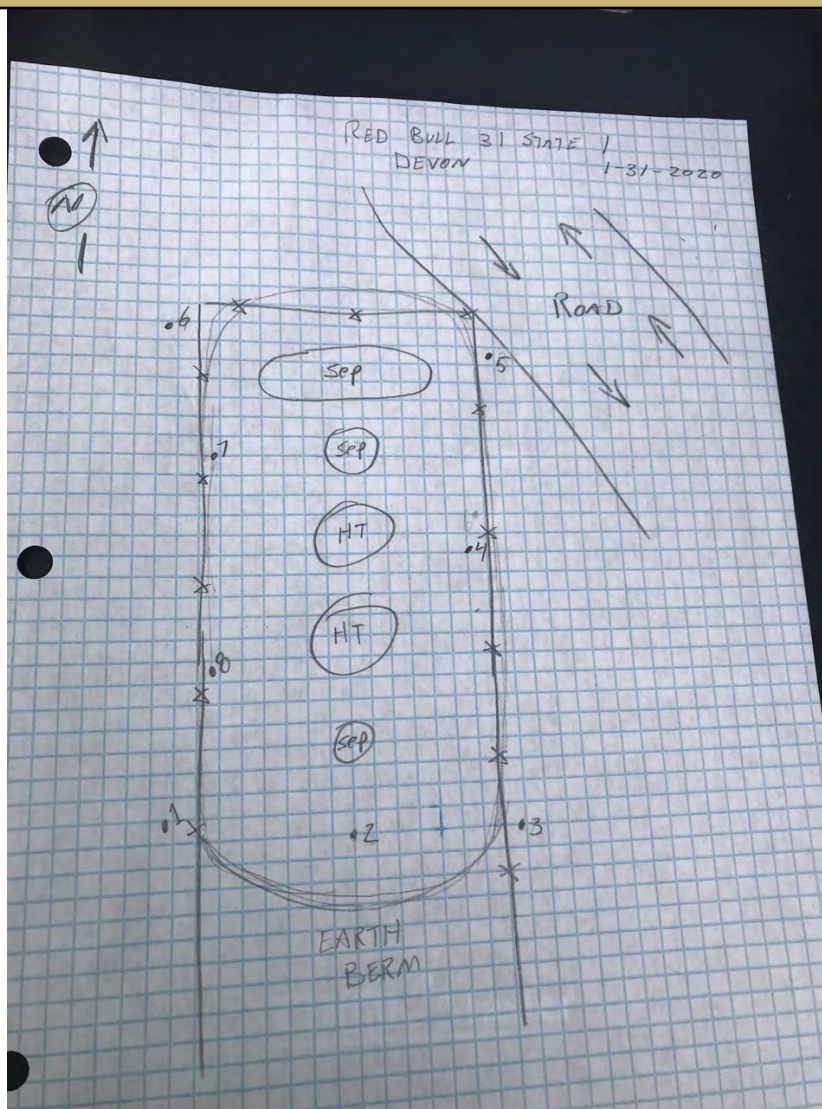
Summary of Times

| | |
|--------------------|-------------------|
| Left Office | 1/31/2020 7:15 AM |
| Arrived at Site | 1/31/2020 8:45 AM |
| Departed Site | 1/31/2020 4:19 PM |
| Returned to Office | 1/31/2020 5:45 PM |

Daily Site Visit Report



Site Sketch





Daily Site Visit Report

Summary of Daily Operations

9:57 Arrive on site.
 Complete safety paperwork.
 Create characterization plan.
 Field screen.
 Complete DFR.
 Return to office.

Next Steps & Recommendations

- 1 Send characterization samples for lab analysis.
- 2 Create remediation plan.
- 3 Remediate to closure criteria







Sampling

Background20-01

| Depth ft | VOC PID | Petro Flag TPH ppm | Quantab Range ppm | Quantab Reading ppm | Lab Analysis | Picture | Trimble Location | Marked On Site Sketch? |
|----------|---------|-----------------------|----------------------|------------------------|--|---------|----------------------------|---------------------------|
| 0 ft. | | | | 18.23 ppm | BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M) | ✓ | 32.257914, - 103.405465 | Yes |
| 1 ft. | | | | 39.88 ppm | BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M) | ✓ | 32.257914, - 103.405465 | Yes |
| 2 ft. | | | | 81.73 ppm | | ✓ | 32.257914, - 103.405465 | Yes |










Daily Site Visit Report

| BH20-01 | | | | | | | | | |
|----------|---------|-----------------------|----------------------|------------------------|--|---|------------------------|---------------------------|--|
| Depth ft | VOC PID | Petro Flag TPH ppm | Quantab Range ppm | Quantab Reading ppm | Lab Analysis | Picture | Trimble Location | Marked On Site Sketch? | |
| 0 ft. | 0 ppm | 1014 ppm | | 4368.3 ppm | BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M) |  | 32.257183, -103.407222 | Yes | |
| 1 ft. | | | | 553.7 ppm | |  | 32.257183, -103.407222 | | |
| 1.5 ft. | | | | 582.5 ppm | |  | 32.257183, -103.407222 | | |
| BH20-02 | | | | | | | | | |
| Depth ft | VOC PID | Petro Flag TPH ppm | Quantab Range ppm | Quantab Reading ppm | Lab Analysis | Picture | Trimble Location | Marked On Site Sketch? | |
| 0 ft. | | | | 1438.4 ppm | BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M) |  | 32.257183, -103.407151 | Yes | |
| 0.5 ft. | | | | 871.2 ppm | |  | 32.257183, -103.407151 | | |
| 1.5 ft. | | | | 810.6 ppm | |  | 32.257183, -103.407151 | | |



Daily Site Visit Report

| BH20-03 | | | | | | | | | |
|----------|---------|-----------------------|----------------------|------------------------|--|---|------------------------|---------------------------|--|
| Depth ft | VOC PID | Petro Flag TPH ppm | Quantab Range ppm | Quantab Reading ppm | Lab Analysis | Picture | Trimble Location | Marked On Site Sketch? | |
| 0 ft. | | | | 1092 ppm | BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M) |  | 32.257213, -103.407116 | Yes | |
| 0.5 ft. | | | | 464.2 ppm | |  | 32.257213, -103.407116 | | |
| 1 ft. | | | | 311.2 ppm | |  | 32.257213, -103.407116 | | |
| 1.5 ft. | | | | 308.3 ppm | |  | 32.257213, -103.407116 | | |
| BH20-04 | | | | | | | | | |
| Depth ft | VOC PID | Petro Flag TPH ppm | Quantab Range ppm | Quantab Reading ppm | Lab Analysis | Picture | Trimble Location | Marked On Site Sketch? | |
| 0 ft. | 0 ppm | | | 6003.6 ppm | BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M) |  | 32.257332, -103.407192 | Yes | |
| 0.5 ft. | | | | 1552.4 ppm | |  | 32.257332, -103.407192 | | |
| 1 ft. | | | | 685 ppm | |  | 32.257332, -103.407192 | | |








Daily Site Visit Report



| 1.5 ft. | | | | 817.8 ppm | | ✓ | 32.257332, - 103.407192 | |
|----------------|---------|-----------------------|----------------------|------------------------|--|---------|----------------------------|---------------------------|
| BH20-05 | | | | | | | | |
| Depth ft | VOC PID | Petro Flag TPH ppm | Quantab Range ppm | Quantab Reading ppm | Lab Analysis | Picture | Trimble Location | Marked On Site Sketch? |
| 0 ft. | 0 ppm | | | 3160.3 ppm | BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M) | ✓ | 32.257467, - 103.407267 | Yes |
| 0.5 ft. | | | | 1877.2 ppm | | ✓ | 32.257467, - 103.407267 | |
| BH20-06 | | | | | | | | |
| Depth ft | VOC PID | Petro Flag TPH ppm | Quantab Range ppm | Quantab Reading ppm | Lab Analysis | Picture | Trimble Location | Marked On Site Sketch? |
| 0 ft. | 0 ppm | | | 1470 ppm | BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M) | ✓ | 32.257395, - 103.407418 | Yes |
| 0.5 ft. | | | | 416.6 ppm | | ✓ | 32.257395, - 103.407418 | |
| 1 ft. | | | | 618.6 ppm | | ✓ | 32.257395, - 103.407418 | |



Daily Site Visit Report

| BH20-07 | | | | | | | | | |
|----------|---------|-----------------------|----------------------|------------------------|--|---|------------------------|---------------------------|--|
| Depth ft | VOC PID | Petro Flag TPH ppm | Quantab Range ppm | Quantab Reading ppm | Lab Analysis | Picture | Trimble Location | Marked On Site Sketch? | |
| 0 ft. | 0 ppm | 205 ppm | | 444 ppm | BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M) |  | 32.257275, -103.407337 | Yes | |
| 0.5 ft. | | | | 162.5 ppm | BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M) |  | 32.257275, -103.407337 | | |
| 1 ft. | | | | 334.3 ppm | |  | 32.257275, -103.407337 | | |
| 2 ft. | | | | 1090.6 ppm | |  | 32.257275, -103.407337 | | |
| BH20-08 | | | | | | | | | |
| Depth ft | VOC PID | Petro Flag TPH ppm | Quantab Range ppm | Quantab Reading ppm | Lab Analysis | Picture | Trimble Location | Marked On Site Sketch? | |
| 0 ft. | 0 ppm | 816 ppm | | 3444.6 ppm | BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M) |  | 32.257205, -103.407279 | Yes | |
| 0.5 ft. | | | | 810.6 ppm | |  | 32.257205, -103.407279 | | |
| 1 ft. | | | | 754.3 ppm | |  | 32.257205, -103.407279 | | |

Daily Site Visit Report



| | | | | | | | | |
|-------|--|--|--|-----------|--|--|----------------------------|--|
| 2 ft. | | | | 804.8 ppm | | | 32.257205, - 103.407279 | |
|-------|--|--|--|-----------|--|--|----------------------------|--|

Daily Site Visit Report



Site Photos

Viewing Direction: North



Spill area

Viewing Direction: North



Spill area

Viewing Direction: North



Spill area on east side

Viewing Direction: South



Spill area on east side



Daily Site Visit Report

Viewing Direction: South



Spill area

Viewing Direction: South



Spill area

Viewing Direction: Southeast



Spill area

Viewing Direction: East



Production area



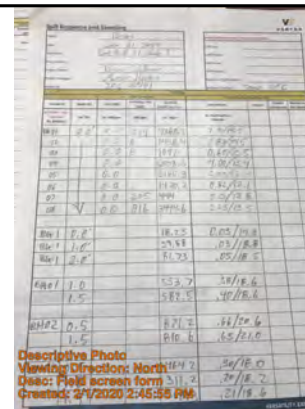
Daily Site Visit Report

Viewing Direction: Northeast



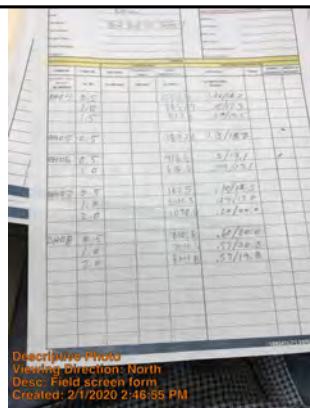
Production area

Viewing Direction: North



Field screen form

Viewing Direction: North



Field screen form

Daily Site Visit Report



Depth Sample Photos

Sample Point ID: Background20-01



Depth: 0 ft.

Sample Point ID: Background20-01



Depth: 1 ft.

Sample Point ID: BH20-01



Depth: 0 ft.

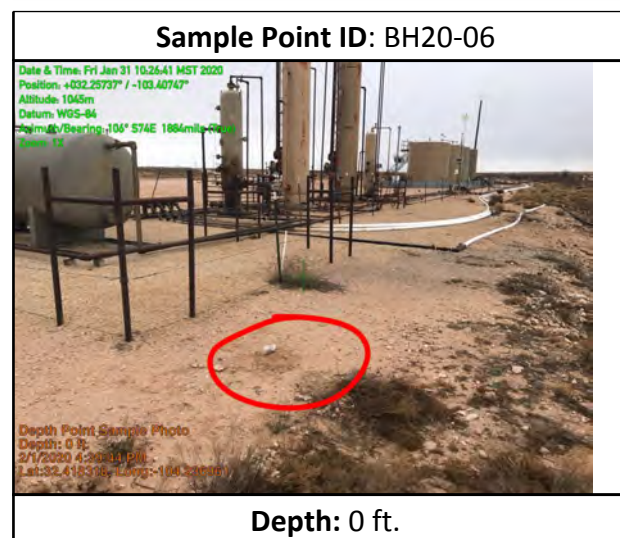
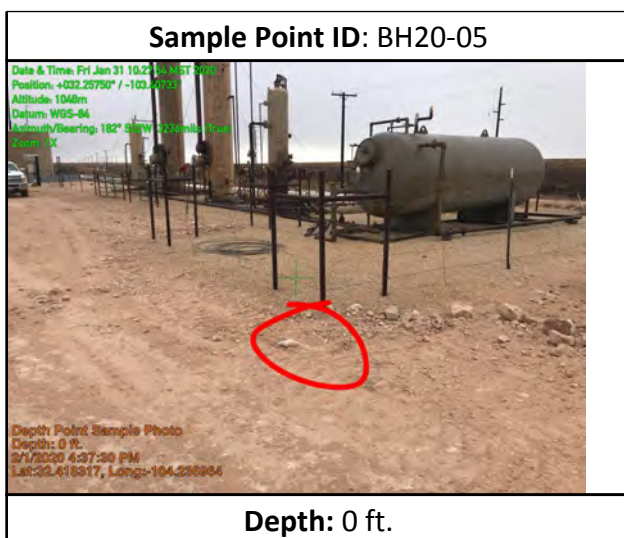
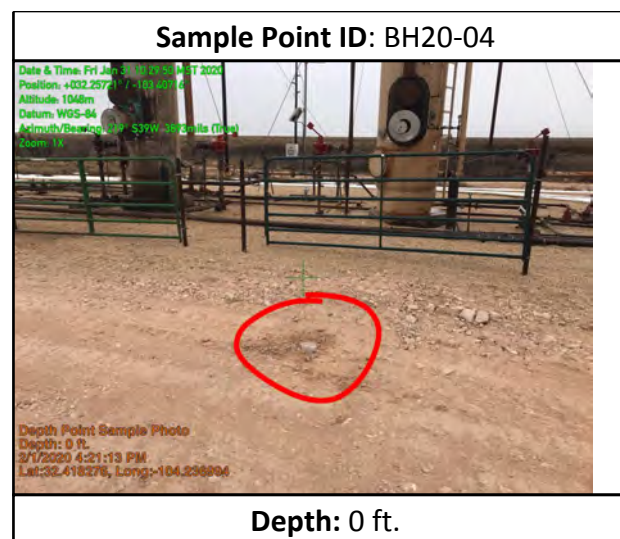
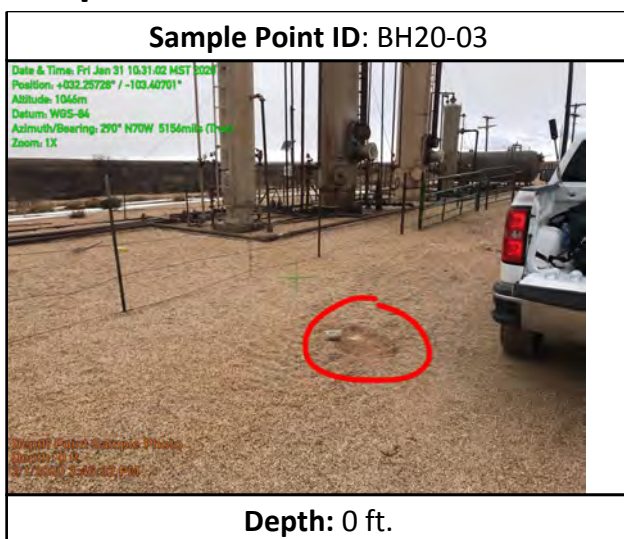
Sample Point ID: BH20-02



Depth: 0 ft.

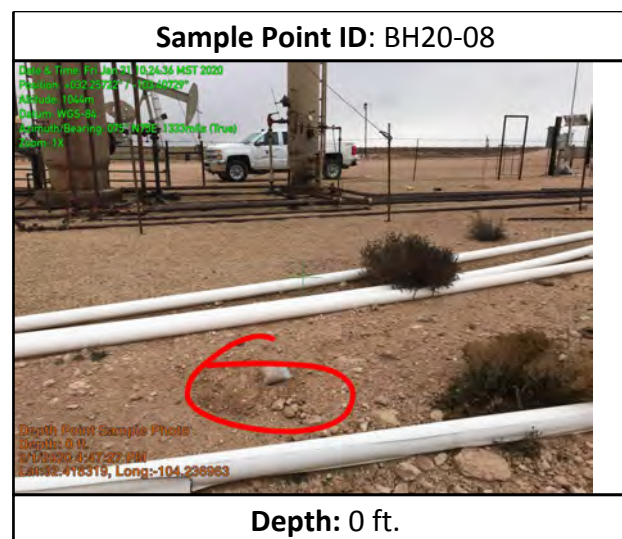
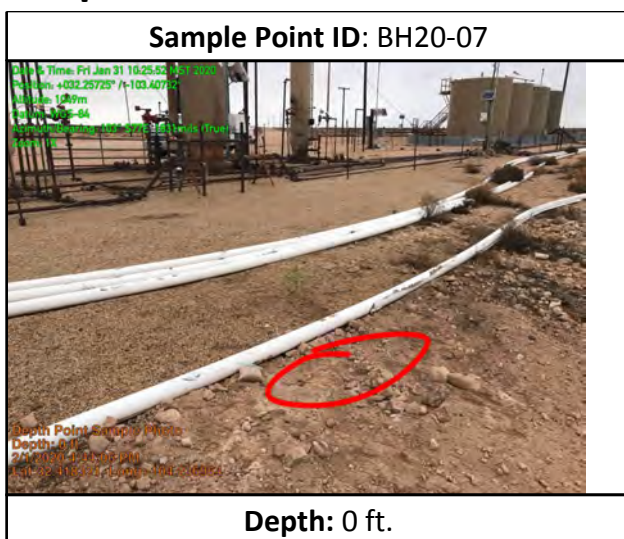


Daily Site Visit Report





Daily Site Visit Report



Daily Site Visit Report



Daily Site Visit Signature

Inspector: Austin Harris

Signature:

A handwritten signature in black ink, appearing to be 'AH' or similar initials, written over a horizontal line.

Signature

Devon

| |
|-----------|
| Northings |
| Easting |
| UTM Zone |
| Page of |

[illegible]



| VERTeX | | Client Name | | Borehole Location | | Start Date | | 2-15-2020 | | Logged by | | Jason Cuthbert | | Northing | |
|----------------------|------------------|-----------------------|--------|------------------------|--------|-----------------|--------|-------------------------|------------|--------------------------|-----------|---------------------------------|-------------|----------|--|
| Project Number | | 20E-00141 | | Borehole No. | | RH20-10 | | End Date | | 2-15-2020 | | Checked by | | Easting | |
| Project Name | | Red Bull 31 Site 1 | | Borehole Diameter (in) | | 6 in | | Drilling Company | | Vertex | | Top of Well Elevation (m or ft) | | UTM Zone | |
| Project Location | | Total Depth (m or ft) | | 0.5 ft | | Drilling Method | | Hand Auger | | Depth to Water (m or ft) | | | | Page of | |
| Top (m or ft) | Bottom (m or ft) | % Major (>50%) | | % Minor (10-40%) | | % Trace (<10%) | | Gradation | Grain Size | | Moisture | Plasticity | Color | Notes | |
| | | Fine | Coarse | Fine | Coarse | Fine | Coarse | (Major and Coarse only) | Major | Minor | | | | | |
| 0.0 | 0.1 | Clay | Sand | Clay | Sand | Clay | Sand | Poorly Graded | Fine | Fine | Dry | Non Plastic | dark brown | | |
| | | Silt | Gravel | Silt | Gravel | Silt | Gravel | Well Graded | Medium | Medium | Damp | Slightly Plastic | | | |
| | | | | | | | | | | | Moist | Plastic | | | |
| | | | | | | | | | | | Wet | Very Plastic | | | |
| | | | | | | | | | | | Saturated | | | | |
| 0.500051 | | Clay | Sand | Clay | Sand | Clay | Sand | Poorly Graded | Fine | Fine | Dry | Non Plastic | light brown | | |
| | | Silt | Gravel | Silt | Gravel | Silt | Gravel | Well Graded | Medium | Medium | Damp | Slightly Plastic | | | |
| | | | | | | | | | | | Moist | Plastic | | | |
| | | | | | | | | | | | Wet | Very Plastic | | | |
| | | | | | | | | | | | Saturated | | | | |
| Top | Bottom | Clay | Sand | Clay | Sand | Clay | Sand | Poorly Graded | Fine | Fine | Dry | Non Plastic | | | |
| | | Silt | Gravel | Silt | Gravel | Silt | Gravel | Well Graded | Medium | Medium | Damp | Slightly Plastic | | | |
| | | | | | | | | | | | Moist | Plastic | | | |
| | | | | | | | | | | | Wet | Very Plastic | | | |
| | | | | | | | | | | | Saturated | | | | |
| Top | Bottom | Clay | Sand | Clay | Sand | Clay | Sand | Poorly Graded | Fine | Fine | Dry | Non Plastic | | | |
| | | Silt | Gravel | Silt | Gravel | Silt | Gravel | Well Graded | Medium | Medium | Damp | Slightly Plastic | | | |
| | | | | | | | | | | | Moist | Plastic | | | |
| | | | | | | | | | | | Wet | Very Plastic | | | |
| | | | | | | | | | | | Saturated | | | | |
| Top | Bottom | Clay | Sand | Clay | Sand | Clay | Sand | Poorly Graded | Fine | Fine | Dry | Non Plastic | | | |
| | | Silt | Gravel | Silt | Gravel | Silt | Gravel | Well Graded | Medium | Medium | Damp | Slightly Plastic | | | |
| | | | | | | | | | | | Moist | Plastic | | | |
| | | | | | | | | | | | Wet | Very Plastic | | | |
| | | | | | | | | | | | Saturated | | | | |
| Field Screening | | | | | | | | | | | | | | | |
| Depth (m or ft) | | | | | | | | | | | | | | | |
| VC/MOC (ppm or LEI) | | | | | | | | | | | | | | | |
| EC (µS/m or µS/cm) | | | | | | | | | | | | | | | |
| Sampling (Check Box) | | | | | | | | | | | | | | | |



| Project Location | | Borehole Location | | Start Date | | End Date | | Logged by | | Northing | |
|-----------------------|------------------|------------------------|------------------|------------------|-----------------------------------|--------------------------|----------|---------------------------------|------------------|------------|--|
| Project Name | | Borehole No. | | End Date | | Checked by | | Top of Well Elevation (m or ft) | | Easting | |
| Project Location | | Borehole Diameter (in) | | Drilling Company | | Depth to Water (m or ft) | | UTM Zone | | Page of | |
| VERTeX Devon | | BH20-11 | | 2-15-2020 | | 2-15-2020 | | Jason Crabtree | | | |
| Red Bull 31 Skel 1 | | 6 in | | Vertex | | Hard Anvil | | | | | |
| Total Depth (m or ft) | | 1 foot | | Drilling Method | | | | | | | |
| Top (m or ft) | Bottom (m or ft) | % Major (>50%) | % Minor (10-40%) | % Trace (<10%) | Gradation (Major and Coarse only) | Grain Size | Moisture | Plasticity | Color | Notes | |
| | | Fine | Fine | Fine | (Major and Coarse only) | Major | Minor | | | | |
| 0 | 0.1 | Clay Sand | Clay Sand | Clay Sand | Poorly Graded | Fine | Fine | Dry | Non Plastic | brown | |
| | | Silt Gravel | Silt Gravel | Silt Gravel | Well Graded | Coarse | Coarse | Saturated | | | |
| 0.50 | 0.51 | Clay Sand | Clay Sand | Clay Sand | Poorly Graded | Fine | Fine | Damp | Slightly Plastic | dark brown | |
| | | Silt Gravel | Silt Gravel | Silt Gravel | Well Graded | Coarse | Coarse | Saturated | | | |
| 1.0 | 1.1 | Clay Sand | Clay Sand | Clay Sand | Poorly Graded | Fine | Fine | Dry | Non Plastic | dark brown | |
| | | Silt Gravel | Silt Gravel | Silt Gravel | Well Graded | Coarse | Coarse | Saturated | | | |
| Top | Bottom | Clay Sand | Clay Sand | Clay Sand | Poorly Graded | Fine | Fine | Damp | Slightly Plastic | | |
| | | Silt Gravel | Silt Gravel | Silt Gravel | Well Graded | Coarse | Coarse | Saturated | | | |
| Top | Bottom | Clay Sand | Clay Sand | Clay Sand | Poorly Graded | Fine | Fine | Dry | Non Plastic | | |
| | | Silt Gravel | Silt Gravel | Silt Gravel | Well Graded | Coarse | Coarse | Saturated | | | |
| Field Screening | | | | | | | | | | | |
| Depth (m or ft) | | | | | | | | | | | |
| VC/MOC (ppm or LEI) | | | | | | | | | | | |
| EC (µS/cm or µS/cm) | | | | | | | | | | | |
| Sampling (Check Box) | | | | | | | | | | | |



V E M T E X

Spill Response and Sampling

Client: Devon

Date: 2-15-2020

Site Name: Red Bull 31 State 1

Site Location:

Project Owner: Jason Crabtree

Project Manager: Natalie Gordon

Project #: 20E-00141

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

Sampling

[illegible]



Daily Site Visit Report

| | | | |
|-------------------------|-----------------------------|-------------------|-------------------|
| Client: | Devon Energy Corporation | Inspection Date: | 3/16/2020 |
| Site Location Name: | Red Bull 31 State 1 Battery | Report Run Date: | 3/17/2020 9:04 PM |
| Project Owner: | Amanda Davis | File (Project) #: | 20E-00141 |
| Project Manager: | Natalie Gordon | API #: | 30-025-36798 |
| Client Contact Name: | Amanda Davis | Reference | Spill 1RP-4584 |
| Client Contact Phone #: | (575) 748-0176 | | |

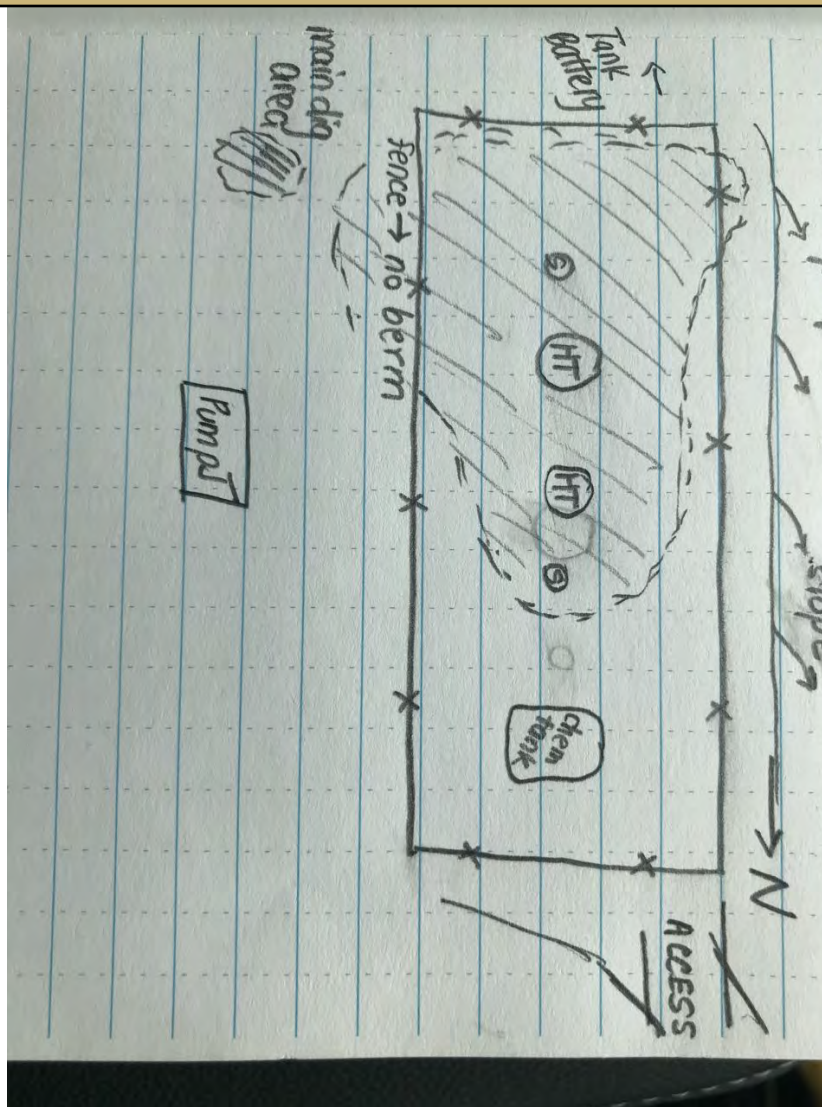
Summary of Times

| | |
|--------------------|--------------------|
| Left Office | 3/16/2020 10:00 AM |
| Arrived at Site | 3/16/2020 11:30 AM |
| Departed Site | 3/16/2020 4:31 PM |
| Returned to Office | 3/16/2020 6:09 PM |

Daily Site Visit Report



Site Sketch



Daily Site Visit Report



Summary of Daily Operations

11:43 Remediation. Hand digging around heater treater equipment with Wild West. Sampling.

Next Steps & Recommendations

- 1 Wait for lab results.
- 2 No backfill needed.

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? |
|----------|---------|-----------------------|----------------------|------------------------|--|---------|------------------|---------------------------|
| 5 ft. | 0.3 ppm | 418 ppm | | | Benzene (EPA SW-846 Method 8021B/8260B), BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M) | | , | No |

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? |
|----------|---------|-----------------------|----------------------|------------------------|--|---------|------------------|---------------------------|
| | | | | | | | , | No |
| 5 ft. | 0.3 ppm | 418 ppm | | | Benzene (EPA SW-846 Method 8021B/8260B), BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M) | | , | No |




Daily Site Visit Report



| 5 ft. | 0.3 ppm | 1128 ppm | | | Benzene (EPA SW-846 Method 8021B/8260B), BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M) | | , | No |
|--------------|---------|--------------------|-------------------|---------------------|--|---------|------------------|------------------------|
| 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? |
| 25 ft. | 1 ppm | 1500 ppm | | | Benzene (EPA SW-846 Method 8021B/8260B), BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M) | | , | No |
| 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? |
| 1 ft. | 0 ppm | 83 ppm | | | Benzene (EPA SW-846 Method 8021B/8260B), BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M) | | , | No |
| ES-Base20-05 | | | | | | | | |
| Depth ft | VOC PID | Petro Flag TPH ppm | Quantab Range ppm | Quantab Reading ppm | Lab Analysis | Picture | Trimble Location | Marked On Site Sketch? |
| 1 ft. | 0.5 ppm | 83 ppm | | | Benzene (EPA SW-846 Method 8021B/8260B), BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M) | | , | No |



Daily Site Visit Report

| 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 ft. | 0.1 ppm | 207 ppm | | | Benzene (EPA SW-846 Method 8021B/8260B), BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M) |  | , | No |
| ES-Base20-07 | | | | | | | | | |
| | Depth ft | VOC PID | Petro Flag TPH ppm | Quantab Range ppm | Quantab Reading ppm | Lab Analysis | Picture | Trimble Location | Marked On Site Sketch? |
| | 0 ft. | 0 ppm | 522 ppm | | | Benzene (EPA SW-846 Method 8021B/8260B), BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M) |  | , | No |
| ES-Base20-08 | | | | | | | | | |
| | Depth ft | VOC PID | Petro Flag TPH ppm | Quantab Range ppm | Quantab Reading ppm | Lab Analysis | Picture | Trimble Location | Marked On Site Sketch? |
| | 0 ft. | 0.7 ppm | | | | Benzene (EPA SW-846 Method 8021B/8260B), BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M) |  | , | No |

Daily Site Visit Report



Site Photos

Viewing Direction: West



Excavated area within separator and heater treater containment.

Daily Site Visit Report



Depth Sample Photos

Sample Point ID: ES-Base20-02



Depth:

Sample Point ID: ES-Base20-02



Depth: 5 ft.

Sample Point ID: ES-Base20-02



Depth: 5 ft.

Sample Point ID: ES-Base20-01



Depth: 5 ft.




Daily Site Visit Report

Sample Point ID: ES-Base20-03**Depth: 25 ft.****Sample Point ID: ES-Base20-06****Depth: 0 ft.****Sample Point ID: ES-Base20-05****Depth: 1 ft.****Sample Point ID: ES-Base20-04****Depth: 1 ft.**



Daily Site Visit Report

| | |
|---|--|
| Sample Point ID: ES-Base20-07 | |
|  | |
| Depth: 0 ft. | |

The photo shows a white circular marker with handwritten text: 'Red Bull 31 State 1', '3-16-20', '1330', 'N. Gordon', and 'BS 20-07'. Below the photo, small orange text reads: 'Depth Point Sample Photo', 'Depth: 0 ft.', '3/17/2020 2:56:47 PM', and 'Lat: 32.418246, Long: -104.236991'.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Natalie Gordon

Signature:

A handwritten signature in black ink, appearing to read 'Natalie Gordon', written over a horizontal line. The word 'Signature' is printed in small text to the left of the line.



Daily Site Visit Report

| | | | |
|-------------------------|------------------------------|------------------|-------------------|
| Client: | Devon Energy Corporation | Inspection Date: | 6/29/2020 |
| Site Location Name: | Red Bull 31 State 1 Battery | Report Run Date: | 6/29/2020 8:46 PM |
| Client Contact Name: | Amanda Davis | API #: | 30-025-36798 |
| Client Contact Phone #: | (575) 748-0176 | | |
| Unique Project ID | -Red Bull 31 State 1 Battery | Project Owner: | Wes Mathews |
| Project Reference # | 20E-00239-012 | Project Manager: | Natalie Gordon |

Summary of Times

| | |
|-----------------|-------------------|
| Arrived at Site | 6/29/2020 8:32 AM |
| Departed Site | 6/29/2020 1:02 PM |

Field Notes

12:37 No outside stains within excavation area. Soil has no odor

Next Steps & Recommendations

- 1 Send samples to lab for analysis
- 2 Start closure report

Daily Site Visit Report



Site Photos

Viewing Direction: North



Descriptive Photo - 1
Viewing Direction: North
Date: 8/6/2020
Created: 8/6/2020 2:45:27 PM
Lat: 32.386903, Long: -104.237941

Field screens

Viewing Direction: North



Descriptive Photo - 2
Viewing Direction: North
Date: 8/6/2020
Created: 8/6/2020 2:45:27 PM
Lat: 32.386903, Long: -104.237941

Field screens

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Monica Peppin

Signature:

A handwritten signature in black ink, appearing to be 'MP', written over a thin horizontal line.

Signature

ATTACHMENT 5

Client Name: Devon Energy Production Company
 Site Name: Red Bull 31 State #001
 NM OCD Incident Tracking Number: NOY1703843861
 Project #: 20E-00141-012
 Lab Report: 2003807

| Table 2. Characterization Sampling Laboratory Data - Depth to Groundwater < 50ft | | | | | | | | | | |
|--|------------|----------------|------------------------|--------------|-------------------------------|-----------------------------|--------------------------------|-------------|------------------------------------|--------------|
| 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) | |
| BS 20-01 | 1 | March 16, 2020 | <0.025 | <0.225 | <5.0 | 610 | 420 | 610 | 1,030 | 460 |
| BS 20-02 | 1 | March 16, 2020 | <0.024 | <0.216 | <4.8 | 220 | 530 | 220 | 750 | 99 |
| BS 20-03 | 1 | March 16, 2020 | <0.025 | <0.222 | <4.9 | <9.6 | <48 | <14.5 | <62.5 | 330 |
| BS 20-04 | 1 | March 16, 2020 | <0.023 | <0.211 | <4.7 | <9.6 | <48 | <14.3 | <62.3 | 81 |
| BS 20-05 | 0.5 | March 16, 2020 | <0.024 | <0.216 | <4.8 | 66 | 63 | 66 | 129 | 460 |
| BS 20-06 | 0.5 | March 16, 2020 | <0.023 | <0.213 | <4.6 | <9.7 | <48 | <14.3 | <62.3 | 280 |
| BS 20-07 | 0.5 | March 16, 2020 | <0.023 | <0.211 | <4.7 | 460 | 1,100 | 460 | 1,560 | 140 |
| BS 20-08 | 0.5 | March 16, 2020 | <0.024 | <0.220 | 4.9 | 44 | 110 | 44 | 154 | 1,800 |

"-" - Not applicable/assessed

Bold and shaded indicates exceedance outside of applied action level

Client Name: Devon Energy Production Company
 Site Name: Red Bull 31 State #001
 NM OCD Incident Tracking Number: NOY1703843861
 Project #: 20E-00141-012
 Lab Report: 2007006

| Table 3. Confirmatory Sampling Laboratory Results - Depth to Groundwater < 50 ft | | | | | | | | | | |
|--|------------|---------------|------------------------|--------------|-------------------------------|-----------------------------|--------------------------------|-------------|------------------------------------|-----------|
| Sample Description | | | Petroleum Hydrocarbons | | | | | | | Inorganic |
| Sample ID | Depth (ft) | Sample Date | Volatile | | Extractable | | | | | |
| | | | Benzene | BTEX (Total) | Gasoline Range Organics (GRO) | Diesel Range Organics (DRO) | Motor Oil Range Organics (MRO) | (GRO + DRO) | Total Petroleum Hydrocarbons (TPH) | |
| | | | | | | | | | | |
| BS20-01 | 1 | June 29, 2020 | <0.025 | <0.221 | <4.9 | <9.8 | <49 | <14.7 | <63.7 | 330 |
| BS20-02 | 1 | June 29, 2020 | <0.025 | <0.225 | <5.0 | <9.5 | <47 | <14.5 | <61.5 | <60 |
| BS20-03 | 1 | June 29, 2020 | <0.024 | <0.220 | <4.9 | 11 | <48 | 11 | 11 | 330 |
| BS20-04 | 1 | June 29, 2020 | <0.024 | <0.220 | <4.9 | <9.7 | <49 | <14.6 | <63.6 | 130 |
| BS20-05 | 1 | June 29, 2020 | <0.025 | <0.221 | <4.9 | <9.9 | <49 | <14.8 | <63.8 | <60 |
| BS20-06 | 1 | June 29, 2020 | <0.025 | <0.225 | <5.0 | <9.7 | <48 | <14.7 | <62.7 | 130 |
| BS20-07 | 1 | June 29, 2020 | <0.024 | <0.219 | <4.9 | <9.4 | <47 | <14.3 | <61.3 | 88 |
| BS20-08 | 1 | June 29, 2020 | <0.025 | <0.221 | <4.9 | <9.5 | <47 | <14.4 | <61.4 | <60 |
| BS20-09 | 1 | June 29, 2020 | <0.024 | <0.220 | <4.9 | 16 | 55 | 16 | 71 | 180 |
| BS20-10 | 1 | June 29, 2020 | <0.025 | <0.224 | <5.0 | <9.2 | <46 | <14.2 | <60.2 | 120 |
| BS20-11 | 1 | June 29, 2020 | <0.025 | <0.222 | <4.9 | <9.6 | <48 | <14.5 | <62.5 | 96 |
| BS20-12 | 1 | June 29, 2020 | <0.024 | <0.219 | <4.9 | <10.0 | <50 | <14.9 | <64.9 | 140 |
| BS20-13 | 1 | June 29, 2020 | <0.024 | <0.220 | <4.9 | <9.2 | <46 | <14.1 | <60.1 | 250 |
| BS20-14 | 1 | June 29, 2020 | <0.024 | <0.219 | <4.9 | <9.8 | <49 | <14.7 | <63.7 | <60 |
| BS20-15 | 1 | June 29, 2020 | <0.025 | <0.225 | <5.0 | <9.6 | <48 | <14.6 | <62.6 | <60 |
| BS20-16 | 1 | June 29, 2020 | <0.025 | <0.225 | <5.0 | <9.5 | <47 | <14.5 | <61.5 | <60 |
| BS20-17 | 1 | June 29, 2020 | <0.025 | <0.224 | <5.0 | <9.1 | <46 | <14.1 | <60.1 | 150 |
| BS20-18 | 1 | June 29, 2020 | <0.025 | <0.222 | <4.9 | <9.2 | <46 | <14.1 | <60.1 | 220 |
| BS20-19 | 1 | June 29, 2020 | <0.025 | <0.225 | <5.0 | <9.5 | <47 | <14.5 | <61.5 | 140 |
| BS20-20 | 1 | June 29, 2020 | <0.025 | <0.224 | <5.0 | <9.1 | <46 | <14.1 | <60.1 | 170 |
| BS20-21 | 1 | June 29, 2020 | <0.025 | <0.224 | <5.0 | <9.0 | <45 | <14.0 | <59.0 | 100 |
| BS20-22 | 1 | June 29, 2020 | <0.024 | <0.216 | <4.8 | <9.6 | <48 | <14.4 | <62.4 | 140 |
| WS20-01 | 0-1 | June 29, 2020 | <0.024 | <0.215 | <4.8 | <9.9 | <50 | <14.7 | <64.7 | 190 |
| WS20-02 | 0-1 | June 29, 2020 | <0.023 | <0.208 | <4.6 | <9.9 | <49 | <14.5 | <63.5 | 160 |
| WS20-03 | 0-1 | June 29, 2020 | <0.025 | <0.221 | <4.9 | <9.3 | <46 | <14.2 | <60.2 | 96 |
| WS20-04 | 0-1 | June 29, 2020 | <0.024 | <0.215 | <4.8 | <9.5 | <48 | <14.3 | <62.3 | 270 |
| WS20-05 | 0-1 | June 29, 2020 | <0.025 | <0.221 | <4.9 | <10.0 | <50 | <14.9 | <64.9 | 280 |
| WS20-06 | 0-1 | June 29, 2020 | <0.023 | <0.208 | <4.6 | <9.6 | <48 | <14.2 | <62.2 | 150 |
| WS20-07 | 0-1 | June 29, 2020 | <0.024 | <0.212 | <4.7 | <9.9 | <49 | <14.6 | <63.6 | 210 |
| WS20-08 | 0-1 | June 29, 2020 | <0.023 | <0.211 | <4.7 | <9.3 | <47 | <14.0 | <61.0 | 250 |
| WS20-09 | 0-1 | June 29, 2020 | <0.023 | <0.210 | <4.7 | <9.6 | <48 | <14.3 | <62.3 | 160 |
| WS20-10 | 0-1 | June 29, 2020 | <0.024 | <0.217 | <4.8 | <9.3 | <47 | <14.1 | <61.1 | 270 |
| WS20-11 | 0-1 | June 29, 2020 | <0.024 | <0.216 | <4.8 | <9.6 | <48 | <14.4 | <62.4 | 180 |
| WS20-12 | 0-1 | June 29, 2020 | <0.025 | <0.221 | <4.9 | <9.4 | <47 | <14.3 | <61.3 | 80 |
| WS20-13 | 0-1 | June 29, 2020 | <0.024 | <0.216 | <4.8 | <9.2 | <46 | <14.0 | <60.0 | 360 |
| WS20-14 | 0-1 | June 29, 2020 | <0.024 | <0.213 | <4.7 | <10.0 | <50 | <14.7 | <64.7 | 190 |
| WS20-15 | 0-1 | June 29, 2020 | <0.023 | <0.208 | <4.6 | <9.7 | <48 | <14.3 | <62.3 | 89 |
| WS20-16 | 0-1 | June 29, 2020 | <0.024 | <0.216 | <4.8 | <9.7 | <49 | <14.5 | <63.5 | 210 |
| WS20-17 | 0-1 | June 29, 2020 | <0.024 | <0.215 | <4.8 | <9.4 | <47 | <14.2 | <61.2 | 98 |
| WS20-18 | 0-1 | June 29, 2020 | <0.024 | <0.220 | <4.9 | <9.5 | <47 | <14.4 | <61.4 | 230 |
| WS20-19 | 0-1 | June 29, 2020 | <0.023 | <0.211 | <4.7 | <9.7 | <48 | <14.4 | <62.4 | 140 |
| WS20-20 | 0-1 | June 29, 2020 | <0.024 | <0.216 | <4.8 | <9.8 | <49 | <14.6 | <63.6 | 220 |
| WS20-21 | 0-1 | June 29, 2020 | <0.025 | <0.221 | <4.9 | <9.3 | <46 | <14.2 | <60.2 | 300 |

"-" - Not applicable/assessed

Bold and shaded indicates exceedance outside of applied action level

ATTACHMENT 6

Natalie Gordon

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>
Sent: Wednesday, June 24, 2020 6:04 PM
To: Natalie Gordon
Subject: Fwd: Red Bull 31 State 1: 48-hr Notification of Confirmation Sampling (Devon Energy)

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

From: **Dhugal Hanton** <vertexresourcegroupusa@gmail.com>
Date: Wed, Jun 24, 2020 at 6:02 PM
Subject: Red Bull 31 State 1: 48-hr Notification of Confirmation Sampling (Devon Energy)
To: Bratcher, Mike, EMNRD <Mike.Bratcher@state.nm.us>, EMNRD-OCD-District1spills <emnrd-ocd-district1spills@state.nm.us>, <ramona.marcus@state.nm.us>, <rmann@slo.state.nm.us>
Cc: <tom.bynum@dvn.com>

All,

Please accept this email as 48-hr notification that Vertex Resource Services Inc. has scheduled confirmation sampling to be conducted at Red Bull 31 State 1 for the following two incidents:

1. nOY1703843861 1RP-4584 DOR: January 15, 2017
2. DOR: 02/21/2019 --- 6 bbl release of oil and produced water into the heater treater earthen containment. No incident number known.

On Monday, June 29, 2020 at approximately 7:00 a.m., Monica Peppin of Vertex will be onsite to conduct confirmatory sampling. She 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, please give me a call at 505-506-0040.

Thank you,
Natalie

ATTACHMENT 7



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

March 25, 2020

Amanda Davis

Devon Energy

6488 Seven Rivers Highway

Artesia, NM 88210

TEL: (575) 748-0176

FAX:

RE: Red Bull 31 State 1

OrderNo.: 2003807

Dear Amanda Davis:

Hall Environmental Analysis Laboratory received 8 sample(s) on 3/18/2020 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 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

Analytical Report

Lab Order 2003807

Date Reported: 3/25/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS 20-01

Project: Red Bull 31 State 1

Collection Date: 3/16/2020 12:15:00 PM

Lab ID: 2003807-001

Matrix: SOIL

Received Date: 3/18/2020 8:25:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | 610 | 47 | | mg/Kg | 5 | 3/23/2020 5:26:08 PM |
| Motor Oil Range Organics (MRO) | 420 | 240 | | mg/Kg | 5 | 3/23/2020 5:26:08 PM |
| Surr: DNOP | 93.4 | 55.1-146 | | %Rec | 5 | 3/23/2020 5:26:08 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 460 | 60 | | mg/Kg | 20 | 3/24/2020 4:59:53 PM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 3/22/2020 8:46:42 AM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 3/22/2020 8:46:42 AM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 3/22/2020 8:46:42 AM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 3/22/2020 8:46:42 AM |
| Surr: 1,2-Dichloroethane-d4 | 78.5 | 70-130 | | %Rec | 1 | 3/22/2020 8:46:42 AM |
| Surr: 4-Bromofluorobenzene | 92.6 | 70-130 | | %Rec | 1 | 3/22/2020 8:46:42 AM |
| Surr: Dibromofluoromethane | 93.4 | 70-130 | | %Rec | 1 | 3/22/2020 8:46:42 AM |
| Surr: Toluene-d8 | 99.7 | 70-130 | | %Rec | 1 | 3/22/2020 8:46:42 AM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 3/22/2020 8:46:42 AM |
| Surr: BFB | 99.7 | 70-130 | | %Rec | 1 | 3/22/2020 8:46:42 AM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 2003807

Date Reported: 3/25/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS 20-02

Project: Red Bull 31 State 1

Collection Date: 3/16/2020 4:45:00 PM

Lab ID: 2003807-002

Matrix: SOIL

Received Date: 3/18/2020 8:25:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | 220 | 9.8 | | mg/Kg | 1 | 3/20/2020 12:14:22 PM |
| Motor Oil Range Organics (MRO) | 530 | 49 | | mg/Kg | 1 | 3/20/2020 12:14:22 PM |
| Surr: DNOP | 95.3 | 55.1-146 | | %Rec | 1 | 3/20/2020 12:14:22 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 99 | 60 | | mg/Kg | 20 | 3/24/2020 5:36:55 PM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 3/22/2020 10:12:14 AM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 3/22/2020 10:12:14 AM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 3/22/2020 10:12:14 AM |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 3/22/2020 10:12:14 AM |
| Surr: 1,2-Dichloroethane-d4 | 77.3 | 70-130 | | %Rec | 1 | 3/22/2020 10:12:14 AM |
| Surr: 4-Bromofluorobenzene | 101 | 70-130 | | %Rec | 1 | 3/22/2020 10:12:14 AM |
| Surr: Dibromofluoromethane | 95.8 | 70-130 | | %Rec | 1 | 3/22/2020 10:12:14 AM |
| Surr: Toluene-d8 | 100 | 70-130 | | %Rec | 1 | 3/22/2020 10:12:14 AM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 3/22/2020 10:12:14 AM |
| Surr: BFB | 102 | 70-130 | | %Rec | 1 | 3/22/2020 10:12:14 AM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 2003807

Date Reported: 3/25/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS 20-03

Project: Red Bull 31 State 1

Collection Date: 3/16/2020 4:00:00 PM

Lab ID: 2003807-003

Matrix: SOIL

Received Date: 3/18/2020 8:25:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 3/20/2020 12:38:51 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 3/20/2020 12:38:51 PM |
| Surr: DNOP | 83.0 | 55.1-146 | | %Rec | 1 | 3/20/2020 12:38:51 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 330 | 60 | | mg/Kg | 20 | 3/24/2020 5:49:15 PM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 3/22/2020 11:37:48 AM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 3/22/2020 11:37:48 AM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 3/22/2020 11:37:48 AM |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 3/22/2020 11:37:48 AM |
| Surr: 1,2-Dichloroethane-d4 | 82.7 | 70-130 | | %Rec | 1 | 3/22/2020 11:37:48 AM |
| Surr: 4-Bromofluorobenzene | 95.6 | 70-130 | | %Rec | 1 | 3/22/2020 11:37:48 AM |
| Surr: Dibromofluoromethane | 95.8 | 70-130 | | %Rec | 1 | 3/22/2020 11:37:48 AM |
| Surr: Toluene-d8 | 99.6 | 70-130 | | %Rec | 1 | 3/22/2020 11:37:48 AM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 3/22/2020 11:37:48 AM |
| Surr: BFB | 99.7 | 70-130 | | %Rec | 1 | 3/22/2020 11:37:48 AM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 2003807

Date Reported: 3/25/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS 20-04

Project: Red Bull 31 State 1

Collection Date: 3/16/2020 12:45:00 PM

Lab ID: 2003807-004

Matrix: SOIL

Received Date: 3/18/2020 8:25:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 3/20/2020 1:03:14 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 3/20/2020 1:03:14 PM |
| Surr: DNOP | 91.6 | 55.1-146 | | %Rec | 1 | 3/20/2020 1:03:14 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 81 | 60 | | mg/Kg | 20 | 3/24/2020 6:01:36 PM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: RAA |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 3/22/2020 12:06:22 PM |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 3/22/2020 12:06:22 PM |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 3/22/2020 12:06:22 PM |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 3/22/2020 12:06:22 PM |
| Surr: 1,2-Dichloroethane-d4 | 87.5 | 70-130 | | %Rec | 1 | 3/22/2020 12:06:22 PM |
| Surr: 4-Bromofluorobenzene | 99.3 | 70-130 | | %Rec | 1 | 3/22/2020 12:06:22 PM |
| Surr: Dibromofluoromethane | 95.8 | 70-130 | | %Rec | 1 | 3/22/2020 12:06:22 PM |
| Surr: Toluene-d8 | 99.5 | 70-130 | | %Rec | 1 | 3/22/2020 12:06:22 PM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 3/22/2020 12:06:22 PM |
| Surr: BFB | 103 | 70-130 | | %Rec | 1 | 3/22/2020 12:06:22 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 2003807

Date Reported: 3/25/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS 20-05

Project: Red Bull 31 State 1

Collection Date: 3/16/2020 2:00:00 PM

Lab ID: 2003807-005

Matrix: SOIL

Received Date: 3/18/2020 8:25:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | 66 | 9.1 | | mg/Kg | 1 | 3/23/2020 5:48:22 PM |
| Motor Oil Range Organics (MRO) | 63 | 45 | | mg/Kg | 1 | 3/23/2020 5:48:22 PM |
| Surr: DNOP | 88.8 | 55.1-146 | | %Rec | 1 | 3/23/2020 5:48:22 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 460 | 60 | | mg/Kg | 20 | 3/24/2020 6:13:56 PM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 3/22/2020 12:34:56 PM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 3/22/2020 12:34:56 PM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 3/22/2020 12:34:56 PM |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 3/22/2020 12:34:56 PM |
| Surr: 1,2-Dichloroethane-d4 | 82.4 | 70-130 | | %Rec | 1 | 3/22/2020 12:34:56 PM |
| Surr: 4-Bromofluorobenzene | 96.5 | 70-130 | | %Rec | 1 | 3/22/2020 12:34:56 PM |
| Surr: Dibromofluoromethane | 95.4 | 70-130 | | %Rec | 1 | 3/22/2020 12:34:56 PM |
| Surr: Toluene-d8 | 101 | 70-130 | | %Rec | 1 | 3/22/2020 12:34:56 PM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 3/22/2020 12:34:56 PM |
| Surr: BFB | 102 | 70-130 | | %Rec | 1 | 3/22/2020 12:34:56 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 2003807

Date Reported: 3/25/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS 20-06

Project: Red Bull 31 State 1

Collection Date: 3/16/2020 1:45:00 PM

Lab ID: 2003807-006

Matrix: SOIL

Received Date: 3/18/2020 8:25:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.7 | | mg/Kg | 1 | 3/20/2020 1:51:54 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 3/20/2020 1:51:54 PM |
| Surr: DNOP | 88.4 | 55.1-146 | | %Rec | 1 | 3/20/2020 1:51:54 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 280 | 60 | | mg/Kg | 20 | 3/24/2020 6:26:17 PM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: RAA |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 3/22/2020 1:03:34 PM |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 3/22/2020 1:03:34 PM |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 3/22/2020 1:03:34 PM |
| Xylenes, Total | ND | 0.093 | | mg/Kg | 1 | 3/22/2020 1:03:34 PM |
| Surr: 1,2-Dichloroethane-d4 | 89.8 | 70-130 | | %Rec | 1 | 3/22/2020 1:03:34 PM |
| Surr: 4-Bromofluorobenzene | 96.3 | 70-130 | | %Rec | 1 | 3/22/2020 1:03:34 PM |
| Surr: Dibromofluoromethane | 96.0 | 70-130 | | %Rec | 1 | 3/22/2020 1:03:34 PM |
| Surr: Toluene-d8 | 97.3 | 70-130 | | %Rec | 1 | 3/22/2020 1:03:34 PM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 3/22/2020 1:03:34 PM |
| Surr: BFB | 97.0 | 70-130 | | %Rec | 1 | 3/22/2020 1:03:34 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 2003807

Date Reported: 3/25/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS 20-07

Project: Red Bull 31 State 1

Collection Date: 3/16/2020 1:30:00 PM

Lab ID: 2003807-007

Matrix: SOIL

Received Date: 3/18/2020 8:25:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | 460 | 92 | | mg/Kg | 10 | 3/23/2020 6:10:38 PM |
| Motor Oil Range Organics (MRO) | 1100 | 460 | | mg/Kg | 10 | 3/23/2020 6:10:38 PM |
| Surr: DNOP | 0 | 55.1-146 | S | %Rec | 10 | 3/23/2020 6:10:38 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 140 | 61 | | mg/Kg | 20 | 3/24/2020 7:28:00 PM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: RAA |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 3/22/2020 1:32:01 PM |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 3/22/2020 1:32:01 PM |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 3/22/2020 1:32:01 PM |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 3/22/2020 1:32:01 PM |
| Surr: 1,2-Dichloroethane-d4 | 86.3 | 70-130 | | %Rec | 1 | 3/22/2020 1:32:01 PM |
| Surr: 4-Bromofluorobenzene | 100 | 70-130 | | %Rec | 1 | 3/22/2020 1:32:01 PM |
| Surr: Dibromofluoromethane | 97.3 | 70-130 | | %Rec | 1 | 3/22/2020 1:32:01 PM |
| Surr: Toluene-d8 | 98.8 | 70-130 | | %Rec | 1 | 3/22/2020 1:32:01 PM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 3/22/2020 1:32:01 PM |
| Surr: BFB | 102 | 70-130 | | %Rec | 1 | 3/22/2020 1:32:01 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 2003807

Date Reported: 3/25/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS 20-08

Project: Red Bull 31 State 1

Collection Date: 3/16/2020 1:15:00 PM

Lab ID: 2003807-008

Matrix: SOIL

Received Date: 3/18/2020 8:25:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | 44 | 9.4 | | mg/Kg | 1 | 3/20/2020 2:40:17 PM |
| Motor Oil Range Organics (MRO) | 110 | 47 | | mg/Kg | 1 | 3/20/2020 2:40:17 PM |
| Surr: DNOP | 98.3 | 55.1-146 | | %Rec | 1 | 3/20/2020 2:40:17 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 1800 | 60 | | mg/Kg | 20 | 3/24/2020 7:40:22 PM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 3/22/2020 2:00:29 PM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 3/22/2020 2:00:29 PM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 3/22/2020 2:00:29 PM |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 3/22/2020 2:00:29 PM |
| Surr: 1,2-Dichloroethane-d4 | 83.4 | 70-130 | | %Rec | 1 | 3/22/2020 2:00:29 PM |
| Surr: 4-Bromofluorobenzene | 97.5 | 70-130 | | %Rec | 1 | 3/22/2020 2:00:29 PM |
| Surr: Dibromofluoromethane | 97.1 | 70-130 | | %Rec | 1 | 3/22/2020 2:00:29 PM |
| Surr: Toluene-d8 | 97.1 | 70-130 | | %Rec | 1 | 3/22/2020 2:00:29 PM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 3/22/2020 2:00:29 PM |
| Surr: BFB | 97.7 | 70-130 | | %Rec | 1 | 3/22/2020 2:00:29 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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#: 2003807

25-Mar-20

Client: Devon Energy
Project: Red Bull 31 State 1

| Sample ID: MB-51292 | SampType: mblk | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 51292 | RunNo: 67533 | | | | | | | | |
| Prep Date: 3/24/2020 | Analysis Date: 3/24/2020 | SeqNo: 2331598 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: LCS-51292 | SampType: lcs | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 51292 | RunNo: 67533 | | | | | | | | |
| Prep Date: 3/24/2020 | Analysis Date: 3/24/2020 | SeqNo: 2331599 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 94.3 | 90 | 110 | | | |

| Sample ID: MB-51305 | SampType: mblk | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 51305 | RunNo: 67533 | | | | | | | | |
| Prep Date: 3/24/2020 | Analysis Date: 3/24/2020 | SeqNo: 2331634 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: LCS-51305 | SampType: lcs | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 51305 | RunNo: 67533 | | | | | | | | |
| Prep Date: 3/24/2020 | Analysis Date: 3/24/2020 | SeqNo: 2331635 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 93.9 | 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#: 2003807

25-Mar-20

Client: Devon Energy
Project: Red Bull 31 State 1

| Sample ID: LCS-51100 | SampType: LCS | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|-----------------------------|---------------------------------|-----|--|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 51100 | | RunNo: 67313 | | | | | | | |
| Prep Date: 3/13/2020 | Analysis Date: 3/17/2020 | | SeqNo: 2321410 | | Units: %Rec | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 4.2 | | 5.000 | | 84.7 | 55.1 | 146 | | | |

| Sample ID: MB-51100 | SampType: MBLK | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|-----------------------------|---------------------------------|-----|--|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 51100 | | RunNo: 67313 | | | | | | | |
| Prep Date: 3/13/2020 | Analysis Date: 3/17/2020 | | SeqNo: 2321412 | | Units: %Rec | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 9.0 | | 10.00 | | 90.4 | 55.1 | 146 | | | |

| Sample ID: LCS-51201 | SampType: LCS | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|-----------------------------|---------------------------------|-----|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 51201 | | RunNo: 67313 | | | | | | | |
| Prep Date: 3/18/2020 | Analysis Date: 3/20/2020 | | SeqNo: 2326279 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 47 | 10 | 50.00 | 0 | 93.3 | 70 | 130 | | | |
| Surr: DNOP | 3.9 | | 5.000 | | 77.7 | 55.1 | 146 | | | |

| Sample ID: MB-51201 | SampType: MBLK | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|--------------------------------|---------------------------------|-----|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 51201 | | RunNo: 67313 | | | | | | | |
| Prep Date: 3/18/2020 | Analysis Date: 3/20/2020 | | SeqNo: 2326281 | | Units: mg/Kg | | | | | |
| 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 | 8.6 | | 10.00 | | 86.0 | 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#: 2003807

25-Mar-20

Client: Devon Energy
Project: Red Bull 31 State 1

| Sample ID: 2003807-001AMS | SampType: MS4 | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | | | |
|----------------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BS 20-01 | Batch ID: 51198 | RunNo: 67474 | | | | | | | | |
| Prep Date: 3/18/2020 | Analysis Date: 3/22/2020 | SeqNo: 2328441 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.83 | 0.025 | 0.9930 | 0 | 83.7 | 80 | 120 | | | |
| Toluene | 0.98 | 0.050 | 0.9930 | 0 | 98.3 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 0.9930 | 0 | 101 | 80 | 120 | | | |
| Xylenes, Total | 3.1 | 0.099 | 2.979 | 0 | 104 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.45 | | 0.4965 | | 90.7 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.51 | | 0.4965 | | 103 | 70 | 130 | | | |

| Sample ID: 2003807-001AMSD | SampType: MSD4 | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | | | |
|-----------------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BS 20-01 | Batch ID: 51198 | RunNo: 67474 | | | | | | | | |
| Prep Date: 3/18/2020 | Analysis Date: 3/22/2020 | SeqNo: 2328442 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.79 | 0.025 | 0.9814 | 0 | 81.0 | 80 | 120 | 4.47 | 20 | |
| Toluene | 0.95 | 0.049 | 0.9814 | 0 | 96.8 | 80 | 120 | 2.72 | 20 | |
| Ethylbenzene | 0.98 | 0.049 | 0.9814 | 0 | 99.4 | 80 | 120 | 2.86 | 20 | |
| Xylenes, Total | 2.9 | 0.098 | 2.944 | 0 | 97.8 | 80 | 120 | 7.11 | 20 | |
| Surr: 4-Bromofluorobenzene | 0.41 | | 0.4907 | | 84.4 | 70 | 130 | 0 | 0 | |
| Surr: Toluene-d8 | 0.49 | | 0.4907 | | 98.9 | 70 | 130 | 0 | 0 | |

| Sample ID: lcs-51198 | SampType: LCS4 | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | | | |
|-----------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BatchQC | Batch ID: 51198 | RunNo: 67474 | | | | | | | | |
| Prep Date: 3/18/2020 | Analysis Date: 3/22/2020 | SeqNo: 2328460 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.92 | 0.025 | 1.000 | 0 | 92.0 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 104 | 80 | 120 | | | |
| Ethylbenzene | 1.1 | 0.050 | 1.000 | 0 | 109 | 80 | 120 | | | |
| Xylenes, Total | 3.2 | 0.10 | 3.000 | 0 | 108 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.50 | | 0.5000 | | 99.0 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.50 | | 0.5000 | | 99.1 | 70 | 130 | | | |

| Sample ID: mb-51198 | SampType: MBLK | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | | | |
|-----------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 51198 | RunNo: 67474 | | | | | | | | |
| Prep Date: 3/18/2020 | Analysis Date: 3/22/2020 | SeqNo: 2328462 Units: mg/Kg | | | | | | | | |
| 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 | | | | | | | | |

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#: 2003807
25-Mar-20

Client: Devon Energy
Project: Red Bull 31 State 1

| | | | | | | | | | | |
|-----------------------------|--------|--------------------------|-----------|--|------|--------------|-----------|------|----------|------|
| Sample ID: mb-51198 | | SampType: MBLK | | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | |
| Client ID: PBS | | Batch ID: 51198 | | RunNo: 67474 | | | | | | |
| Prep Date: 3/18/2020 | | Analysis Date: 3/22/2020 | | SeqNo: 2328462 | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 0.44 | | 0.5000 | | 88.2 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.48 | | 0.5000 | | 96.5 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.49 | | 0.5000 | | 97.7 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.50 | | 0.5000 | | 99.1 | 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#: 2003807

25-Mar-20

Client: Devon Energy
Project: Red Bull 31 State 1

| Sample ID: 2003807-002AMSD | SampType: MS | TestCode: EPA Method 8015D Mod: Gasoline Range | | | | | | | | |
|-----------------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BS 20-02 | Batch ID: 51198 | RunNo: 67474 | | | | | | | | |
| Prep Date: 3/18/2020 | Analysis Date: 3/22/2020 | SeqNo: 2328593 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 18 | 4.9 | 24.32 | 0 | 75.2 | 70 | 130 | | | |
| Surr: BFB | 490 | | 486.4 | | 99.8 | 70 | 130 | | | |

| Sample ID: 2003807-002AMSD | SampType: MSD | TestCode: EPA Method 8015D Mod: Gasoline Range | | | | | | | | |
|-----------------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BS 20-02 | Batch ID: 51198 | RunNo: 67474 | | | | | | | | |
| Prep Date: 3/18/2020 | Analysis Date: 3/22/2020 | SeqNo: 2328594 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 19 | 4.9 | 24.32 | 0 | 76.4 | 70 | 130 | 1.64 | 20 | |
| Surr: BFB | 480 | | 486.4 | | 97.8 | 70 | 130 | 0 | 0 | |

| Sample ID: lcs-51198 | SampType: LCS | TestCode: EPA Method 8015D Mod: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 51198 | RunNo: 67474 | | | | | | | | |
| Prep Date: 3/18/2020 | Analysis Date: 3/22/2020 | SeqNo: 2328611 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 21 | 5.0 | 25.00 | 0 | 83.9 | 70 | 130 | | | |
| Surr: BFB | 510 | | 500.0 | | 101 | 70 | 130 | | | |

| Sample ID: mb-51198 | SampType: MBLK | TestCode: EPA Method 8015D Mod: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 51198 | RunNo: 67474 | | | | | | | | |
| Prep Date: 3/18/2020 | Analysis Date: 3/22/2020 | SeqNo: 2328613 Units: mg/Kg | | | | | | | | |
| 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 | | 98.4 | 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



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: 2003807

RcptNo: 1

Received By: Yazmine Garduno

3/18/2020 8:25:00 AM

Yazmine Garduno

Completed By: Isaiah Ortiz

3/18/2020 10:03:30 AM

I-Ortiz

Reviewed By: JR 3/18/20

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°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? Yes ☒ No ☐

(Note discrepancies on chain of custody)

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? Yes ☒ No ☐

(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: DAD 3/18/20

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 | 1.7 | Good | Not Present | | | |
| 2 | 38 | Good | Not Present | | | |



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

July 09, 2020

Natalie Gordon

Devon Energy

6488 Seven Rivers Highway

Artesia, NM 88210

TEL: (575) 748-0176

FAX:

RE: Red Bull 31 State 1

OrderNo.: 2007006

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 43 sample(s) on 7/1/2020 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 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

Analytical Report

Lab Order 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-01 1'

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 9:00:00 AM

Lab ID: 2007006-001

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|---------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JMT |
| Chloride | 330 | 60 | | mg/Kg | 20 | 7/7/2020 3:57:19 PM | 53538 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 7/4/2020 8:33:30 PM | 53455 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 7/4/2020 8:33:30 PM | 53455 |
| Surr: DNOP | 65.7 | 55.1-146 | | %Rec | 1 | 7/4/2020 8:33:30 PM | 53455 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/3/2020 9:52:11 PM | 53450 |
| Surr: BFB | 98.0 | 66.6-105 | | %Rec | 1 | 7/3/2020 9:52:11 PM | 53450 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/3/2020 9:52:11 PM | 53450 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/3/2020 9:52:11 PM | 53450 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/3/2020 9:52:11 PM | 53450 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/3/2020 9:52:11 PM | 53450 |
| Surr: 4-Bromofluorobenzene | 108 | 80-120 | | %Rec | 1 | 7/3/2020 9:52:11 PM | 53450 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 | | |
| | | | | |

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Analytical Report

Lab Order 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-02 1'

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 9:10:00 AM

Lab ID: 2007006-002

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/7/2020 4:09:44 PM | 53538 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 7/4/2020 9:46:30 PM | 53455 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 7/4/2020 9:46:30 PM | 53455 |
| Surr: DNOP | 68.1 | 55.1-146 | | %Rec | 1 | 7/4/2020 9:46:30 PM | 53455 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 7/3/2020 11:03:16 PM | 53450 |
| Surr: BFB | 98.0 | 66.6-105 | | %Rec | 1 | 7/3/2020 11:03:16 PM | 53450 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/3/2020 11:03:16 PM | 53450 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 7/3/2020 11:03:16 PM | 53450 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 7/3/2020 11:03:16 PM | 53450 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 7/3/2020 11:03:16 PM | 53450 |
| Surr: 4-Bromofluorobenzene | 106 | 80-120 | | %Rec | 1 | 7/3/2020 11:03:16 PM | 53450 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 | | |

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Analytical Report

Lab Order 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-03 1'

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 9:20:00 AM

Lab ID: 2007006-003

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JMT |
| Chloride | 330 | 60 | | mg/Kg | 20 | 7/7/2020 4:22:08 PM | 53538 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | 11 | 9.6 | | mg/Kg | 1 | 7/4/2020 10:10:42 PM | 53455 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/4/2020 10:10:42 PM | 53455 |
| Surr: DNOP | 79.4 | 55.1-146 | | %Rec | 1 | 7/4/2020 10:10:42 PM | 53455 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/4/2020 12:14:00 AM | 53450 |
| Surr: BFB | 94.2 | 66.6-105 | | %Rec | 1 | 7/4/2020 12:14:00 AM | 53450 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/4/2020 12:14:00 AM | 53450 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 12:14:00 AM | 53450 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 12:14:00 AM | 53450 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/4/2020 12:14:00 AM | 53450 |
| Surr: 4-Bromofluorobenzene | 105 | 80-120 | | %Rec | 1 | 7/4/2020 12:14:00 AM | 53450 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 | | |

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Analytical Report

Lab Order 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-04 1'

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 9:30:00 AM

Lab ID: 2007006-004

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JMT |
| Chloride | 130 | 60 | | mg/Kg | 20 | 7/7/2020 4:34:33 PM | 53538 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.7 | | mg/Kg | 1 | 7/4/2020 10:34:53 PM | 53455 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 7/4/2020 10:34:53 PM | 53455 |
| Surr: DNOP | 70.0 | 55.1-146 | | %Rec | 1 | 7/4/2020 10:34:53 PM | 53455 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/4/2020 12:37:34 AM | 53450 |
| Surr: BFB | 94.7 | 66.6-105 | | %Rec | 1 | 7/4/2020 12:37:34 AM | 53450 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/4/2020 12:37:34 AM | 53450 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 12:37:34 AM | 53450 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 12:37:34 AM | 53450 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/4/2020 12:37:34 AM | 53450 |
| Surr: 4-Bromofluorobenzene | 105 | 80-120 | | %Rec | 1 | 7/4/2020 12:37:34 AM | 53450 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 | | |

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Analytical Report

Lab Order 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-05 1'

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 9:40:00 AM

Lab ID: 2007006-005

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/7/2020 4:46:57 PM | 53538 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 7/4/2020 10:59:04 PM | 53455 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 7/4/2020 10:59:04 PM | 53455 |
| Surr: DNOP | 82.9 | 55.1-146 | | %Rec | 1 | 7/4/2020 10:59:04 PM | 53455 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/4/2020 1:01:11 AM | 53450 |
| Surr: BFB | 96.0 | 66.6-105 | | %Rec | 1 | 7/4/2020 1:01:11 AM | 53450 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/4/2020 1:01:11 AM | 53450 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 1:01:11 AM | 53450 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 1:01:11 AM | 53450 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/4/2020 1:01:11 AM | 53450 |
| Surr: 4-Bromofluorobenzene | 106 | 80-120 | | %Rec | 1 | 7/4/2020 1:01:11 AM | 53450 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 | | |

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Analytical Report

Lab Order 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-06 1'

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 9:50:00 AM

Lab ID: 2007006-006

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JMT |
| Chloride | 130 | 60 | | mg/Kg | 20 | 7/7/2020 4:59:22 PM | 53538 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.7 | | mg/Kg | 1 | 7/4/2020 11:23:14 PM | 53455 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/4/2020 11:23:14 PM | 53455 |
| Surr: DNOP | 83.4 | 55.1-146 | | %Rec | 1 | 7/4/2020 11:23:14 PM | 53455 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 7/4/2020 2:11:45 AM | 53450 |
| Surr: BFB | 96.0 | 66.6-105 | | %Rec | 1 | 7/4/2020 2:11:45 AM | 53450 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/4/2020 2:11:45 AM | 53450 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 7/4/2020 2:11:45 AM | 53450 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 7/4/2020 2:11:45 AM | 53450 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 7/4/2020 2:11:45 AM | 53450 |
| Surr: 4-Bromofluorobenzene | 106 | 80-120 | | %Rec | 1 | 7/4/2020 2:11:45 AM | 53450 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 | | |

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Analytical Report

Lab Order 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-07 1'

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 10:00:00 AM

Lab ID: 2007006-007

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JMT |
| Chloride | 88 | 59 | | mg/Kg | 20 | 7/7/2020 5:11:47 PM | 53538 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.4 | | mg/Kg | 1 | 7/4/2020 11:47:26 PM | 53455 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 7/4/2020 11:47:26 PM | 53455 |
| Surr: DNOP | 88.8 | 55.1-146 | | %Rec | 1 | 7/4/2020 11:47:26 PM | 53455 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/4/2020 2:35:14 AM | 53450 |
| Surr: BFB | 97.0 | 66.6-105 | | %Rec | 1 | 7/4/2020 2:35:14 AM | 53450 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/4/2020 2:35:14 AM | 53450 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 2:35:14 AM | 53450 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 2:35:14 AM | 53450 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 7/4/2020 2:35:14 AM | 53450 |
| Surr: 4-Bromofluorobenzene | 107 | 80-120 | | %Rec | 1 | 7/4/2020 2:35:14 AM | 53450 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 | | |

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Analytical Report

Lab Order 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-08 1'

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 10:10:00 AM

Lab ID: 2007006-008

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/7/2020 5:49:01 PM | 53538 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 7/5/2020 12:11:42 AM | 53455 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 7/5/2020 12:11:42 AM | 53455 |
| Surr: DNOP | 80.7 | 55.1-146 | | %Rec | 1 | 7/5/2020 12:11:42 AM | 53455 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/4/2020 2:58:43 AM | 53450 |
| Surr: BFB | 97.0 | 66.6-105 | | %Rec | 1 | 7/4/2020 2:58:43 AM | 53450 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/4/2020 2:58:43 AM | 53450 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 2:58:43 AM | 53450 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 2:58:43 AM | 53450 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/4/2020 2:58:43 AM | 53450 |
| Surr: 4-Bromofluorobenzene | 106 | 80-120 | | %Rec | 1 | 7/4/2020 2:58:43 AM | 53450 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 | | |

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Analytical Report

Lab Order 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-09 1'

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 10:20:00 AM

Lab ID: 2007006-009

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JMT |
| Chloride | 180 | 60 | | mg/Kg | 20 | 7/7/2020 6:01:25 PM | 53538 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | 16 | 9.8 | | mg/Kg | 1 | 7/5/2020 12:35:58 AM | 53455 |
| Motor Oil Range Organics (MRO) | 55 | 49 | | mg/Kg | 1 | 7/5/2020 12:35:58 AM | 53455 |
| Surr: DNOP | 79.5 | 55.1-146 | | %Rec | 1 | 7/5/2020 12:35:58 AM | 53455 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/4/2020 3:22:14 AM | 53450 |
| Surr: BFB | 94.2 | 66.6-105 | | %Rec | 1 | 7/4/2020 3:22:14 AM | 53450 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/4/2020 3:22:14 AM | 53450 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 3:22:14 AM | 53450 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 3:22:14 AM | 53450 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/4/2020 3:22:14 AM | 53450 |
| Surr: 4-Bromofluorobenzene | 103 | 80-120 | | %Rec | 1 | 7/4/2020 3:22:14 AM | 53450 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 | | |

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Analytical Report

Lab Order 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-10 1'

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 10:30:00 AM

Lab ID: 2007006-010

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|---------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JMT |
| Chloride | 120 | 60 | | mg/Kg | 20 | 7/7/2020 6:13:49 PM | 53538 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | ND | 9.2 | | mg/Kg | 1 | 7/7/2020 2:53:39 AM | 53455 |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 7/7/2020 2:53:39 AM | 53455 |
| Surr: DNOP | 79.9 | 55.1-146 | | %Rec | 1 | 7/7/2020 2:53:39 AM | 53455 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 7/4/2020 3:45:38 AM | 53450 |
| Surr: BFB | 93.8 | 66.6-105 | | %Rec | 1 | 7/4/2020 3:45:38 AM | 53450 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/4/2020 3:45:38 AM | 53450 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 7/4/2020 3:45:38 AM | 53450 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 7/4/2020 3:45:38 AM | 53450 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 7/4/2020 3:45:38 AM | 53450 |
| Surr: 4-Bromofluorobenzene | 105 | 80-120 | | %Rec | 1 | 7/4/2020 3:45:38 AM | 53450 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-11 1'

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 10:40:00 AM

Lab ID: 2007006-011

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|---------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JMT |
| Chloride | 96 | 60 | | mg/Kg | 20 | 7/7/2020 6:26:14 PM | 53538 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 7/5/2020 1:24:35 AM | 53455 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/5/2020 1:24:35 AM | 53455 |
| Surr: DNOP | 91.9 | 55.1-146 | | %Rec | 1 | 7/5/2020 1:24:35 AM | 53455 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/4/2020 4:09:07 AM | 53450 |
| Surr: BFB | 93.3 | 66.6-105 | | %Rec | 1 | 7/4/2020 4:09:07 AM | 53450 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/4/2020 4:09:07 AM | 53450 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 4:09:07 AM | 53450 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 4:09:07 AM | 53450 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 7/4/2020 4:09:07 AM | 53450 |
| Surr: 4-Bromofluorobenzene | 102 | 80-120 | | %Rec | 1 | 7/4/2020 4:09:07 AM | 53450 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-12 1'

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 10:50:00 AM

Lab ID: 2007006-012

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|---------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JMT |
| Chloride | 140 | 60 | | mg/Kg | 20 | 7/7/2020 6:38:39 PM | 53538 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 7/5/2020 1:48:49 AM | 53455 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 7/5/2020 1:48:49 AM | 53455 |
| Surr: DNOP | 93.2 | 55.1-146 | | %Rec | 1 | 7/5/2020 1:48:49 AM | 53455 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/4/2020 4:32:33 AM | 53450 |
| Surr: BFB | 95.5 | 66.6-105 | | %Rec | 1 | 7/4/2020 4:32:33 AM | 53450 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/4/2020 4:32:33 AM | 53450 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 4:32:33 AM | 53450 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 4:32:33 AM | 53450 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 7/4/2020 4:32:33 AM | 53450 |
| Surr: 4-Bromofluorobenzene | 106 | 80-120 | | %Rec | 1 | 7/4/2020 4:32:33 AM | 53450 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-13 1'

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 11:00:00 AM

Lab ID: 2007006-013

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|---------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JMT |
| Chloride | 250 | 60 | | mg/Kg | 20 | 7/7/2020 6:51:03 PM | 53538 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.2 | | mg/Kg | 1 | 7/5/2020 2:12:59 AM | 53455 |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 7/5/2020 2:12:59 AM | 53455 |
| Surr: DNOP | 81.7 | 55.1-146 | | %Rec | 1 | 7/5/2020 2:12:59 AM | 53455 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/4/2020 4:56:00 AM | 53450 |
| Surr: BFB | 96.0 | 66.6-105 | | %Rec | 1 | 7/4/2020 4:56:00 AM | 53450 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/4/2020 4:56:00 AM | 53450 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 4:56:00 AM | 53450 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 4:56:00 AM | 53450 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/4/2020 4:56:00 AM | 53450 |
| Surr: 4-Bromofluorobenzene | 106 | 80-120 | | %Rec | 1 | 7/4/2020 4:56:00 AM | 53450 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-14 1'

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 11:10:00 AM

Lab ID: 2007006-014

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|---------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CAS |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/7/2020 5:53:44 PM | 53548 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 7/5/2020 2:37:14 AM | 53455 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 7/5/2020 2:37:14 AM | 53455 |
| Surr: DNOP | 82.1 | 55.1-146 | | %Rec | 1 | 7/5/2020 2:37:14 AM | 53455 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/4/2020 5:19:32 AM | 53450 |
| Surr: BFB | 94.5 | 66.6-105 | | %Rec | 1 | 7/4/2020 5:19:32 AM | 53450 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/4/2020 5:19:32 AM | 53450 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 5:19:32 AM | 53450 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 5:19:32 AM | 53450 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 7/4/2020 5:19:32 AM | 53450 |
| Surr: 4-Bromofluorobenzene | 106 | 80-120 | | %Rec | 1 | 7/4/2020 5:19:32 AM | 53450 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-15 1'

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 11:20:00 AM

Lab ID: 2007006-015

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|---------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CAS |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/7/2020 6:30:48 PM | 53548 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 7/5/2020 3:25:38 AM | 53455 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/5/2020 3:25:38 AM | 53455 |
| Surr: DNOP | 96.7 | 55.1-146 | | %Rec | 1 | 7/5/2020 3:25:38 AM | 53455 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 7/4/2020 5:43:09 AM | 53450 |
| Surr: BFB | 96.6 | 66.6-105 | | %Rec | 1 | 7/4/2020 5:43:09 AM | 53450 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/4/2020 5:43:09 AM | 53450 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 7/4/2020 5:43:09 AM | 53450 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 7/4/2020 5:43:09 AM | 53450 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 7/4/2020 5:43:09 AM | 53450 |
| Surr: 4-Bromofluorobenzene | 107 | 80-120 | | %Rec | 1 | 7/4/2020 5:43:09 AM | 53450 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-16 1'

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 11:30:00 AM

Lab ID: 2007006-016

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|---------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CAS |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/7/2020 7:07:51 PM | 53548 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 7/5/2020 3:49:43 AM | 53455 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 7/5/2020 3:49:43 AM | 53455 |
| Surr: DNOP | 100 | 55.1-146 | | %Rec | 1 | 7/5/2020 3:49:43 AM | 53455 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 7/4/2020 8:03:54 AM | 53450 |
| Surr: BFB | 92.2 | 66.6-105 | | %Rec | 1 | 7/4/2020 8:03:54 AM | 53450 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/4/2020 8:03:54 AM | 53450 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 7/4/2020 8:03:54 AM | 53450 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 7/4/2020 8:03:54 AM | 53450 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 7/4/2020 8:03:54 AM | 53450 |
| Surr: 4-Bromofluorobenzene | 103 | 80-120 | | %Rec | 1 | 7/4/2020 8:03:54 AM | 53450 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 | | |

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Analytical Report

Lab Order 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-17 1'

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 11:40:00 AM

Lab ID: 2007006-017

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|---------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CAS |
| Chloride | 150 | 60 | | mg/Kg | 20 | 7/7/2020 7:20:12 PM | 53548 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.1 | | mg/Kg | 1 | 7/5/2020 4:13:48 AM | 53455 |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 7/5/2020 4:13:48 AM | 53455 |
| Surr: DNOP | 88.3 | 55.1-146 | | %Rec | 1 | 7/5/2020 4:13:48 AM | 53455 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 7/4/2020 8:27:22 AM | 53450 |
| Surr: BFB | 96.9 | 66.6-105 | | %Rec | 1 | 7/4/2020 8:27:22 AM | 53450 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/4/2020 8:27:22 AM | 53450 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 7/4/2020 8:27:22 AM | 53450 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 7/4/2020 8:27:22 AM | 53450 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 7/4/2020 8:27:22 AM | 53450 |
| Surr: 4-Bromofluorobenzene | 107 | 80-120 | | %Rec | 1 | 7/4/2020 8:27:22 AM | 53450 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 | | |

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Analytical Report

Lab Order 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-18 1'

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 11:50:00 AM

Lab ID: 2007006-018

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|---------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CAS |
| Chloride | 220 | 61 | | mg/Kg | 20 | 7/7/2020 7:57:17 PM | 53548 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.2 | | mg/Kg | 1 | 7/5/2020 4:37:50 AM | 53455 |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 7/5/2020 4:37:50 AM | 53455 |
| Surr: DNOP | 86.9 | 55.1-146 | | %Rec | 1 | 7/5/2020 4:37:50 AM | 53455 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/4/2020 8:50:53 AM | 53450 |
| Surr: BFB | 92.3 | 66.6-105 | | %Rec | 1 | 7/4/2020 8:50:53 AM | 53450 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/4/2020 8:50:53 AM | 53450 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 8:50:53 AM | 53450 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 8:50:53 AM | 53450 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 7/4/2020 8:50:53 AM | 53450 |
| Surr: 4-Bromofluorobenzene | 102 | 80-120 | | %Rec | 1 | 7/4/2020 8:50:53 AM | 53450 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 | | |

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Analytical Report

Lab Order 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-19 1'

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 12:00:00 PM

Lab ID: 2007006-019

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|---------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CAS |
| Chloride | 140 | 60 | | mg/Kg | 20 | 7/7/2020 8:09:38 PM | 53548 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 7/5/2020 5:01:57 AM | 53455 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 7/5/2020 5:01:57 AM | 53455 |
| Surr: DNOP | 92.0 | 55.1-146 | | %Rec | 1 | 7/5/2020 5:01:57 AM | 53455 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 7/4/2020 9:14:22 AM | 53450 |
| Surr: BFB | 95.3 | 66.6-105 | | %Rec | 1 | 7/4/2020 9:14:22 AM | 53450 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/4/2020 9:14:22 AM | 53450 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 7/4/2020 9:14:22 AM | 53450 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 7/4/2020 9:14:22 AM | 53450 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 7/4/2020 9:14:22 AM | 53450 |
| Surr: 4-Bromofluorobenzene | 104 | 80-120 | | %Rec | 1 | 7/4/2020 9:14:22 AM | 53450 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-20 1'

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 12:10:00 PM

Lab ID: 2007006-020

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|---------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CAS |
| Chloride | 170 | 60 | | mg/Kg | 20 | 7/7/2020 8:22:00 PM | 53548 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.1 | | mg/Kg | 1 | 7/5/2020 5:26:01 AM | 53455 |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 7/5/2020 5:26:01 AM | 53455 |
| Surr: DNOP | 89.5 | 55.1-146 | | %Rec | 1 | 7/5/2020 5:26:01 AM | 53455 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 7/4/2020 9:37:47 AM | 53450 |
| Surr: BFB | 95.4 | 66.6-105 | | %Rec | 1 | 7/4/2020 9:37:47 AM | 53450 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/4/2020 9:37:47 AM | 53450 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 7/4/2020 9:37:47 AM | 53450 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 7/4/2020 9:37:47 AM | 53450 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 7/4/2020 9:37:47 AM | 53450 |
| Surr: 4-Bromofluorobenzene | 105 | 80-120 | | %Rec | 1 | 7/4/2020 9:37:47 AM | 53450 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 | | |

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Analytical Report

Lab Order 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-21 1'

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 12:20:00 PM

Lab ID: 2007006-021

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CAS |
| Chloride | 100 | 60 | | mg/Kg | 20 | 7/7/2020 8:34:21 PM | 53548 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.0 | | mg/Kg | 1 | 7/5/2020 7:58:53 AM | 53480 |
| Motor Oil Range Organics (MRO) | ND | 45 | | mg/Kg | 1 | 7/5/2020 7:58:53 AM | 53480 |
| Surr: DNOP | 68.8 | 55.1-146 | | %Rec | 1 | 7/5/2020 7:58:53 AM | 53480 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 7/4/2020 10:01:15 AM | 53454 |
| Surr: BFB | 96.8 | 66.6-105 | | %Rec | 1 | 7/4/2020 10:01:15 AM | 53454 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/4/2020 10:01:15 AM | 53454 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 7/4/2020 10:01:15 AM | 53454 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 7/4/2020 10:01:15 AM | 53454 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 7/4/2020 10:01:15 AM | 53454 |
| Surr: 4-Bromofluorobenzene | 107 | 80-120 | | %Rec | 1 | 7/4/2020 10:01:15 AM | 53454 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-22 1'

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 12:30:00 PM

Lab ID: 2007006-022

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CAS |
| Chloride | 140 | 60 | | mg/Kg | 20 | 7/7/2020 8:46:42 PM | 53548 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 7/5/2020 9:12:01 AM | 53480 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/5/2020 9:12:01 AM | 53480 |
| Surr: DNOP | 65.4 | 55.1-146 | | %Rec | 1 | 7/5/2020 9:12:01 AM | 53480 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 7/4/2020 11:11:46 AM | 53454 |
| Surr: BFB | 93.7 | 66.6-105 | | %Rec | 1 | 7/4/2020 11:11:46 AM | 53454 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/4/2020 11:11:46 AM | 53454 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 7/4/2020 11:11:46 AM | 53454 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 7/4/2020 11:11:46 AM | 53454 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 7/4/2020 11:11:46 AM | 53454 |
| Surr: 4-Bromofluorobenzene | 102 | 80-120 | | %Rec | 1 | 7/4/2020 11:11:46 AM | 53454 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-01 0-1'

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 12:40:00 PM

Lab ID: 2007006-023

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CAS |
| Chloride | 190 | 60 | | mg/Kg | 20 | 7/7/2020 8:59:04 PM | 53548 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 7/5/2020 9:36:14 AM | 53480 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 7/5/2020 9:36:14 AM | 53480 |
| Surr: DNOP | 72.7 | 55.1-146 | | %Rec | 1 | 7/5/2020 9:36:14 AM | 53480 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 7/4/2020 12:22:19 PM | 53454 |
| Surr: BFB | 93.1 | 66.6-105 | | %Rec | 1 | 7/4/2020 12:22:19 PM | 53454 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/4/2020 12:22:19 PM | 53454 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 7/4/2020 12:22:19 PM | 53454 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 7/4/2020 12:22:19 PM | 53454 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 7/4/2020 12:22:19 PM | 53454 |
| Surr: 4-Bromofluorobenzene | 103 | 80-120 | | %Rec | 1 | 7/4/2020 12:22:19 PM | 53454 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 | | |

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Analytical Report

Lab Order 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-02 0-1'

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 12:50:00 PM

Lab ID: 2007006-024

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CAS |
| Chloride | 160 | 61 | | mg/Kg | 20 | 7/7/2020 9:11:24 PM | 53548 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 7/5/2020 10:00:36 AM | 53480 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 7/5/2020 10:00:36 AM | 53480 |
| Surr: DNOP | 83.6 | 55.1-146 | | %Rec | 1 | 7/5/2020 10:00:36 AM | 53480 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 7/4/2020 12:45:54 PM | 53454 |
| Surr: BFB | 94.4 | 66.6-105 | | %Rec | 1 | 7/4/2020 12:45:54 PM | 53454 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 7/4/2020 12:45:54 PM | 53454 |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 7/4/2020 12:45:54 PM | 53454 |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 7/4/2020 12:45:54 PM | 53454 |
| Xylenes, Total | ND | 0.093 | | mg/Kg | 1 | 7/4/2020 12:45:54 PM | 53454 |
| Surr: 4-Bromofluorobenzene | 104 | 80-120 | | %Rec | 1 | 7/4/2020 12:45:54 PM | 53454 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-03 0-1

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 1:00:00 PM

Lab ID: 2007006-025

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CAS |
| Chloride | 96 | 60 | | mg/Kg | 20 | 7/7/2020 9:23:44 PM | 53548 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.3 | | mg/Kg | 1 | 7/5/2020 10:24:51 AM | 53480 |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 7/5/2020 10:24:51 AM | 53480 |
| Surr: DNOP | 67.0 | 55.1-146 | | %Rec | 1 | 7/5/2020 10:24:51 AM | 53480 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/4/2020 1:09:30 PM | 53454 |
| Surr: BFB | 95.5 | 66.6-105 | | %Rec | 1 | 7/4/2020 1:09:30 PM | 53454 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/4/2020 1:09:30 PM | 53454 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 1:09:30 PM | 53454 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 1:09:30 PM | 53454 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/4/2020 1:09:30 PM | 53454 |
| Surr: 4-Bromofluorobenzene | 103 | 80-120 | | %Rec | 1 | 7/4/2020 1:09:30 PM | 53454 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-04 0-1

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 1:10:00 PM

Lab ID: 2007006-026

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CAS |
| Chloride | 270 | 61 | | mg/Kg | 20 | 7/7/2020 9:36:04 PM | 53548 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 7/5/2020 10:49:18 AM | 53480 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/5/2020 10:49:18 AM | 53480 |
| Surr: DNOP | 76.8 | 55.1-146 | | %Rec | 1 | 7/5/2020 10:49:18 AM | 53480 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 7/4/2020 2:20:24 PM | 53454 |
| Surr: BFB | 96.8 | 66.6-105 | | %Rec | 1 | 7/4/2020 2:20:24 PM | 53454 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/4/2020 2:20:24 PM | 53454 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 7/4/2020 2:20:24 PM | 53454 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 7/4/2020 2:20:24 PM | 53454 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 7/4/2020 2:20:24 PM | 53454 |
| Surr: 4-Bromofluorobenzene | 105 | 80-120 | | %Rec | 1 | 7/4/2020 2:20:24 PM | 53454 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 | | |

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Analytical Report

Lab Order 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-05 0-1

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 1:20:00 PM

Lab ID: 2007006-027

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CAS |
| Chloride | 280 | 60 | | mg/Kg | 20 | 7/7/2020 9:48:25 PM | 53548 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 7/5/2020 11:13:34 AM | 53480 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 7/5/2020 11:13:34 AM | 53480 |
| Surr: DNOP | 73.8 | 55.1-146 | | %Rec | 1 | 7/5/2020 11:13:34 AM | 53480 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/4/2020 2:44:05 PM | 53454 |
| Surr: BFB | 96.1 | 66.6-105 | | %Rec | 1 | 7/4/2020 2:44:05 PM | 53454 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/4/2020 2:44:05 PM | 53454 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 2:44:05 PM | 53454 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 2:44:05 PM | 53454 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/4/2020 2:44:05 PM | 53454 |
| Surr: 4-Bromofluorobenzene | 104 | 80-120 | | %Rec | 1 | 7/4/2020 2:44:05 PM | 53454 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-06 0-1

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 1:30:00 PM

Lab ID: 2007006-028

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CAS |
| Chloride | 150 | 60 | | mg/Kg | 20 | 7/7/2020 10:25:26 PM | 53548 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 7/5/2020 11:37:59 AM | 53480 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/5/2020 11:37:59 AM | 53480 |
| Surr: DNOP | 75.6 | 55.1-146 | | %Rec | 1 | 7/5/2020 11:37:59 AM | 53480 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 7/4/2020 3:07:47 PM | 53454 |
| Surr: BFB | 94.5 | 66.6-105 | | %Rec | 1 | 7/4/2020 3:07:47 PM | 53454 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 7/4/2020 3:07:47 PM | 53454 |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 7/4/2020 3:07:47 PM | 53454 |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 7/4/2020 3:07:47 PM | 53454 |
| Xylenes, Total | ND | 0.093 | | mg/Kg | 1 | 7/4/2020 3:07:47 PM | 53454 |
| Surr: 4-Bromofluorobenzene | 103 | 80-120 | | %Rec | 1 | 7/4/2020 3:07:47 PM | 53454 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 | | |

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Analytical Report

Lab Order 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-07 0-1

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 1:40:00 PM

Lab ID: 2007006-029

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CAS |
| Chloride | 210 | 60 | | mg/Kg | 20 | 7/7/2020 10:37:47 PM | 53548 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 7/5/2020 12:02:20 PM | 53480 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 7/5/2020 12:02:20 PM | 53480 |
| Surr: DNOP | 59.9 | 55.1-146 | | %Rec | 1 | 7/5/2020 12:02:20 PM | 53480 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 7/4/2020 3:31:29 PM | 53454 |
| Surr: BFB | 97.8 | 66.6-105 | | %Rec | 1 | 7/4/2020 3:31:29 PM | 53454 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/4/2020 3:31:29 PM | 53454 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 7/4/2020 3:31:29 PM | 53454 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 7/4/2020 3:31:29 PM | 53454 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 7/4/2020 3:31:29 PM | 53454 |
| Surr: 4-Bromofluorobenzene | 105 | 80-120 | | %Rec | 1 | 7/4/2020 3:31:29 PM | 53454 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-08 0-1

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 1:50:00 PM

Lab ID: 2007006-030

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CAS |
| Chloride | 250 | 60 | | mg/Kg | 20 | 7/7/2020 10:50:08 PM | 53548 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.3 | | mg/Kg | 1 | 7/5/2020 12:51:03 PM | 53480 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 7/5/2020 12:51:03 PM | 53480 |
| Surr: DNOP | 79.1 | 55.1-146 | | %Rec | 1 | 7/5/2020 12:51:03 PM | 53480 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 7/4/2020 3:55:15 PM | 53454 |
| Surr: BFB | 95.5 | 66.6-105 | | %Rec | 1 | 7/4/2020 3:55:15 PM | 53454 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 7/4/2020 3:55:15 PM | 53454 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 7/4/2020 3:55:15 PM | 53454 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 7/4/2020 3:55:15 PM | 53454 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 7/4/2020 3:55:15 PM | 53454 |
| Surr: 4-Bromofluorobenzene | 103 | 80-120 | | %Rec | 1 | 7/4/2020 3:55:15 PM | 53454 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 | | |

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Analytical Report

Lab Order 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-09 0-1

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 2:00:00 PM

Lab ID: 2007006-031

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CAS |
| Chloride | 160 | 60 | | mg/Kg | 20 | 7/7/2020 11:02:28 PM | 53548 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 7/5/2020 1:15:26 PM | 53480 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/5/2020 1:15:26 PM | 53480 |
| Surr: DNOP | 73.0 | 55.1-146 | | %Rec | 1 | 7/5/2020 1:15:26 PM | 53480 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 7/4/2020 4:18:55 PM | 53454 |
| Surr: BFB | 97.4 | 66.6-105 | | %Rec | 1 | 7/4/2020 4:18:55 PM | 53454 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 7/4/2020 4:18:55 PM | 53454 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 7/4/2020 4:18:55 PM | 53454 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 7/4/2020 4:18:55 PM | 53454 |
| Xylenes, Total | ND | 0.093 | | mg/Kg | 1 | 7/4/2020 4:18:55 PM | 53454 |
| Surr: 4-Bromofluorobenzene | 106 | 80-120 | | %Rec | 1 | 7/4/2020 4:18:55 PM | 53454 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-10 0-1

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 2:10:00 PM

Lab ID: 2007006-032

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CAS |
| Chloride | 270 | 60 | | mg/Kg | 20 | 7/7/2020 11:14:47 PM | 53548 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.3 | | mg/Kg | 1 | 7/5/2020 1:39:51 PM | 53480 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 7/5/2020 1:39:51 PM | 53480 |
| Surr: DNOP | 79.9 | 55.1-146 | | %Rec | 1 | 7/5/2020 1:39:51 PM | 53480 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 7/4/2020 4:42:37 PM | 53454 |
| Surr: BFB | 97.8 | 66.6-105 | | %Rec | 1 | 7/4/2020 4:42:37 PM | 53454 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/4/2020 4:42:37 PM | 53454 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 7/4/2020 4:42:37 PM | 53454 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 7/4/2020 4:42:37 PM | 53454 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 7/4/2020 4:42:37 PM | 53454 |
| Surr: 4-Bromofluorobenzene | 105 | 80-120 | | %Rec | 1 | 7/4/2020 4:42:37 PM | 53454 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 | | |

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Analytical Report

Lab Order 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-11 0-1

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 2:20:00 PM

Lab ID: 2007006-033

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CAS |
| Chloride | 180 | 60 | | mg/Kg | 20 | 7/7/2020 11:27:08 PM | 53548 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 7/5/2020 2:04:17 PM | 53480 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/5/2020 2:04:17 PM | 53480 |
| Surr: DNOP | 76.2 | 55.1-146 | | %Rec | 1 | 7/5/2020 2:04:17 PM | 53480 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 7/4/2020 5:30:03 PM | 53454 |
| Surr: BFB | 97.9 | 66.6-105 | | %Rec | 1 | 7/4/2020 5:30:03 PM | 53454 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/4/2020 5:30:03 PM | 53454 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 7/4/2020 5:30:03 PM | 53454 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 7/4/2020 5:30:03 PM | 53454 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 7/4/2020 5:30:03 PM | 53454 |
| Surr: 4-Bromofluorobenzene | 106 | 80-120 | | %Rec | 1 | 7/4/2020 5:30:03 PM | 53454 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 | | |

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Analytical Report

Lab Order 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-12 0-1

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 2:30:00 PM

Lab ID: 2007006-034

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 80 | 60 | | mg/Kg | 20 | 7/8/2020 12:55:19 PM | 53568 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.4 | | mg/Kg | 1 | 7/5/2020 2:28:29 PM | 53480 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 7/5/2020 2:28:29 PM | 53480 |
| Surr: DNOP | 68.4 | 55.1-146 | | %Rec | 1 | 7/5/2020 2:28:29 PM | 53480 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/4/2020 5:53:46 PM | 53454 |
| Surr: BFB | 98.1 | 66.6-105 | | %Rec | 1 | 7/4/2020 5:53:46 PM | 53454 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/4/2020 5:53:46 PM | 53454 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 5:53:46 PM | 53454 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 5:53:46 PM | 53454 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/4/2020 5:53:46 PM | 53454 |
| Surr: 4-Bromofluorobenzene | 105 | 80-120 | | %Rec | 1 | 7/4/2020 5:53:46 PM | 53454 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-13 0-1

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 2:40:00 PM

Lab ID: 2007006-035

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|---------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 360 | 61 | | mg/Kg | 20 | 7/8/2020 1:32:21 PM | 53568 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.2 | | mg/Kg | 1 | 7/5/2020 2:52:59 PM | 53480 |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 7/5/2020 2:52:59 PM | 53480 |
| Surr: DNOP | 72.4 | 55.1-146 | | %Rec | 1 | 7/5/2020 2:52:59 PM | 53480 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 7/4/2020 6:17:26 PM | 53454 |
| Surr: BFB | 97.7 | 66.6-105 | | %Rec | 1 | 7/4/2020 6:17:26 PM | 53454 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/4/2020 6:17:26 PM | 53454 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 7/4/2020 6:17:26 PM | 53454 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 7/4/2020 6:17:26 PM | 53454 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 7/4/2020 6:17:26 PM | 53454 |
| Surr: 4-Bromofluorobenzene | 105 | 80-120 | | %Rec | 1 | 7/4/2020 6:17:26 PM | 53454 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-14 0-1

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 2:50:00 PM

Lab ID: 2007006-036

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|---------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 190 | 60 | | mg/Kg | 20 | 7/8/2020 1:44:42 PM | 53568 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 7/5/2020 3:17:28 PM | 53480 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 7/5/2020 3:17:28 PM | 53480 |
| Surr: DNOP | 60.1 | 55.1-146 | | %Rec | 1 | 7/5/2020 3:17:28 PM | 53480 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 7/4/2020 6:41:09 PM | 53454 |
| Surr: BFB | 97.7 | 66.6-105 | | %Rec | 1 | 7/4/2020 6:41:09 PM | 53454 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/4/2020 6:41:09 PM | 53454 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 7/4/2020 6:41:09 PM | 53454 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 7/4/2020 6:41:09 PM | 53454 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 7/4/2020 6:41:09 PM | 53454 |
| Surr: 4-Bromofluorobenzene | 105 | 80-120 | | %Rec | 1 | 7/4/2020 6:41:09 PM | 53454 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 | | |

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Analytical Report

Lab Order 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-15 0-1

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 3:00:00 PM

Lab ID: 2007006-037

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|---------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 89 | 60 | | mg/Kg | 20 | 7/8/2020 1:57:02 PM | 53568 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.7 | | mg/Kg | 1 | 7/5/2020 3:41:52 PM | 53480 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/5/2020 3:41:52 PM | 53480 |
| Surr: DNOP | 56.2 | 55.1-146 | | %Rec | 1 | 7/5/2020 3:41:52 PM | 53480 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 7/4/2020 7:04:47 PM | 53454 |
| Surr: BFB | 99.8 | 66.6-105 | | %Rec | 1 | 7/4/2020 7:04:47 PM | 53454 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 7/4/2020 7:04:47 PM | 53454 |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 7/4/2020 7:04:47 PM | 53454 |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 7/4/2020 7:04:47 PM | 53454 |
| Xylenes, Total | ND | 0.093 | | mg/Kg | 1 | 7/4/2020 7:04:47 PM | 53454 |
| Surr: 4-Bromofluorobenzene | 108 | 80-120 | | %Rec | 1 | 7/4/2020 7:04:47 PM | 53454 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 | | |

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Analytical Report

Lab Order 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-16 0-1

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 3:10:00 PM

Lab ID: 2007006-038

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|---------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 210 | 60 | | mg/Kg | 20 | 7/8/2020 2:09:23 PM | 53568 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.7 | | mg/Kg | 1 | 7/5/2020 4:06:11 PM | 53480 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 7/5/2020 4:06:11 PM | 53480 |
| Surr: DNOP | 58.8 | 55.1-146 | | %Rec | 1 | 7/5/2020 4:06:11 PM | 53480 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 7/4/2020 7:28:28 PM | 53454 |
| Surr: BFB | 98.7 | 66.6-105 | | %Rec | 1 | 7/4/2020 7:28:28 PM | 53454 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/4/2020 7:28:28 PM | 53454 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 7/4/2020 7:28:28 PM | 53454 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 7/4/2020 7:28:28 PM | 53454 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 7/4/2020 7:28:28 PM | 53454 |
| Surr: 4-Bromofluorobenzene | 106 | 80-120 | | %Rec | 1 | 7/4/2020 7:28:28 PM | 53454 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 | | |

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Analytical Report

Lab Order 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-17 0-1

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 3:20:00 PM

Lab ID: 2007006-039

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|---------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 98 | 60 | | mg/Kg | 20 | 7/8/2020 2:21:45 PM | 53568 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.4 | | mg/Kg | 1 | 7/5/2020 4:30:45 PM | 53480 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 7/5/2020 4:30:45 PM | 53480 |
| Surr: DNOP | 50.5 | 55.1-146 | S | %Rec | 1 | 7/5/2020 4:30:45 PM | 53480 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 7/4/2020 7:52:08 PM | 53454 |
| Surr: BFB | 97.9 | 66.6-105 | | %Rec | 1 | 7/4/2020 7:52:08 PM | 53454 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/4/2020 7:52:08 PM | 53454 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 7/4/2020 7:52:08 PM | 53454 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 7/4/2020 7:52:08 PM | 53454 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 7/4/2020 7:52:08 PM | 53454 |
| Surr: 4-Bromofluorobenzene | 105 | 80-120 | | %Rec | 1 | 7/4/2020 7:52:08 PM | 53454 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-18 0-1

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 3:30:00 PM

Lab ID: 2007006-040

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|---------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 230 | 60 | | mg/Kg | 20 | 7/8/2020 2:58:48 PM | 53568 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 7/5/2020 4:55:07 PM | 53480 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 7/5/2020 4:55:07 PM | 53480 |
| Surr: DNOP | 56.6 | 55.1-146 | | %Rec | 1 | 7/5/2020 4:55:07 PM | 53480 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/4/2020 8:15:40 PM | 53454 |
| Surr: BFB | 95.8 | 66.6-105 | | %Rec | 1 | 7/4/2020 8:15:40 PM | 53454 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/4/2020 8:15:40 PM | 53454 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 8:15:40 PM | 53454 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 8:15:40 PM | 53454 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/4/2020 8:15:40 PM | 53454 |
| Surr: 4-Bromofluorobenzene | 104 | 80-120 | | %Rec | 1 | 7/4/2020 8:15:40 PM | 53454 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-19 0-1

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 3:40:00 PM

Lab ID: 2007006-041

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 140 | 59 | | mg/Kg | 20 | 7/8/2020 3:11:09 PM | 53568 |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | | Analyst: DJF |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 7/4/2020 12:17:43 PM | 53481 |
| Surr: BFB | 96.8 | 70-130 | | %Rec | 1 | 7/4/2020 12:17:43 PM | 53481 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.7 | | mg/Kg | 1 | 7/4/2020 5:20:16 PM | 53484 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/4/2020 5:20:16 PM | 53484 |
| Surr: DNOP | 85.2 | 55.1-146 | | %Rec | 1 | 7/4/2020 5:20:16 PM | 53484 |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | | Analyst: DJF |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 7/4/2020 12:17:43 PM | 53481 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 7/4/2020 12:17:43 PM | 53481 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 7/4/2020 12:17:43 PM | 53481 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 7/4/2020 12:17:43 PM | 53481 |
| Surr: 1,2-Dichloroethane-d4 | 102 | 70-130 | | %Rec | 1 | 7/4/2020 12:17:43 PM | 53481 |
| Surr: 4-Bromofluorobenzene | 87.1 | 70-130 | | %Rec | 1 | 7/4/2020 12:17:43 PM | 53481 |
| Surr: Dibromofluoromethane | 99.9 | 70-130 | | %Rec | 1 | 7/4/2020 12:17:43 PM | 53481 |
| Surr: Toluene-d8 | 98.0 | 70-130 | | %Rec | 1 | 7/4/2020 12:17:43 PM | 53481 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-20 0-1

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 3:50:00 PM

Lab ID: 2007006-042

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|---------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 220 | 60 | | mg/Kg | 20 | 7/8/2020 3:23:29 PM | 53568 |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | | Analyst: DJF |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 7/4/2020 1:47:14 PM | 53481 |
| Surr: BFB | 100 | 70-130 | | %Rec | 1 | 7/4/2020 1:47:14 PM | 53481 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 7/4/2020 5:44:42 PM | 53484 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 7/4/2020 5:44:42 PM | 53484 |
| Surr: DNOP | 59.8 | 55.1-146 | | %Rec | 1 | 7/4/2020 5:44:42 PM | 53484 |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | | Analyst: DJF |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/4/2020 1:47:14 PM | 53481 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 7/4/2020 1:47:14 PM | 53481 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 7/4/2020 1:47:14 PM | 53481 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 7/4/2020 1:47:14 PM | 53481 |
| Surr: 1,2-Dichloroethane-d4 | 99.1 | 70-130 | | %Rec | 1 | 7/4/2020 1:47:14 PM | 53481 |
| Surr: 4-Bromofluorobenzene | 91.2 | 70-130 | | %Rec | 1 | 7/4/2020 1:47:14 PM | 53481 |
| Surr: Dibromofluoromethane | 98.2 | 70-130 | | %Rec | 1 | 7/4/2020 1:47:14 PM | 53481 |
| Surr: Toluene-d8 | 100 | 70-130 | | %Rec | 1 | 7/4/2020 1:47:14 PM | 53481 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 | | |

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Analytical Report

Lab Order 2007006

Date Reported: 7/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-21 0-1

Project: Red Bull 31 State 1

Collection Date: 6/29/2020 4:00:00 PM

Lab ID: 2007006-043

Matrix: SOIL

Received Date: 7/1/2020 9:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|---------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 300 | 60 | | mg/Kg | 20 | 7/8/2020 3:35:49 PM | 53568 |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | | Analyst: DJF |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/4/2020 3:17:08 PM | 53481 |
| Surr: BFB | 99.0 | 70-130 | | %Rec | 1 | 7/4/2020 3:17:08 PM | 53481 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.3 | | mg/Kg | 1 | 7/4/2020 6:09:03 PM | 53484 |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 7/4/2020 6:09:03 PM | 53484 |
| Surr: DNOP | 70.6 | 55.1-146 | | %Rec | 1 | 7/4/2020 6:09:03 PM | 53484 |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | | Analyst: DJF |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/4/2020 3:17:08 PM | 53481 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 3:17:08 PM | 53481 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/4/2020 3:17:08 PM | 53481 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/4/2020 3:17:08 PM | 53481 |
| Surr: 1,2-Dichloroethane-d4 | 99.8 | 70-130 | | %Rec | 1 | 7/4/2020 3:17:08 PM | 53481 |
| Surr: 4-Bromofluorobenzene | 86.9 | 70-130 | | %Rec | 1 | 7/4/2020 3:17:08 PM | 53481 |
| Surr: Dibromofluoromethane | 98.1 | 70-130 | | %Rec | 1 | 7/4/2020 3:17:08 PM | 53481 |
| Surr: Toluene-d8 | 101 | 70-130 | | %Rec | 1 | 7/4/2020 3:17:08 PM | 53481 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | 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 | | |

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

WO#: 2007006

09-Jul-20

Client: Devon Energy
Project: Red Bull 31 State 1

| Sample ID: MB-53538 | SampType: mblk | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|----------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 53538 | RunNo: 70170 | | | | | | | | |
| Prep Date: 7/7/2020 | Analysis Date: 7/7/2020 | SeqNo: 2438355 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: LCS-53538 | SampType: lcs | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 53538 | RunNo: 70170 | | | | | | | | |
| Prep Date: 7/7/2020 | Analysis Date: 7/7/2020 | SeqNo: 2438356 Units: mg/Kg | | | | | | | | |
| 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: MB-53548 | SampType: mblk | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|----------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 53548 | RunNo: 70175 | | | | | | | | |
| Prep Date: 7/7/2020 | Analysis Date: 7/7/2020 | SeqNo: 2438415 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: LCS-53548 | SampType: lcs | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 53548 | RunNo: 70175 | | | | | | | | |
| Prep Date: 7/7/2020 | Analysis Date: 7/7/2020 | SeqNo: 2438416 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 15 | 1.5 | 15.00 | 0 | 97.5 | 90 | 110 | | | |

| Sample ID: MB-53568 | SampType: mblk | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|----------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 53568 | RunNo: 70202 | | | | | | | | |
| Prep Date: 7/8/2020 | Analysis Date: 7/8/2020 | SeqNo: 2439470 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: LCS-53568 | SampType: lcs | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 53568 | RunNo: 70202 | | | | | | | | |
| Prep Date: 7/8/2020 | Analysis Date: 7/8/2020 | SeqNo: 2439471 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 15 | 1.5 | 15.00 | 0 | 97.2 | 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#: 2007006

09-Jul-20

Client: Devon Energy
Project: Red Bull 31 State 1

| Sample ID: MB-53455 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|--------------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 53455 | RunNo: 70071 | | | | | | | | |
| Prep Date: 7/1/2020 | Analysis Date: 7/2/2020 | SeqNo: 2434216 Units: mg/Kg | | | | | | | | |
| 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 | 9.8 | | 10.00 | | 98.0 | 55.1 | 146 | | | |

| Sample ID: LCS-53455 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 53455 | RunNo: 70071 | | | | | | | | |
| Prep Date: 7/1/2020 | Analysis Date: 7/2/2020 | SeqNo: 2434220 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 52 | 10 | 50.00 | 0 | 103 | 70 | 130 | | | |
| Surr: DNOP | 4.6 | | 5.000 | | 92.7 | 55.1 | 146 | | | |

| Sample ID: 2007006-001AMS | SampType: MS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|----------------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BS20-01 1' | Batch ID: 53455 | RunNo: 70101 | | | | | | | | |
| Prep Date: 7/1/2020 | Analysis Date: 7/4/2020 | SeqNo: 2435819 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 40 | 9.3 | 46.69 | 8.325 | 68.1 | 47.4 | 136 | | | |
| Surr: DNOP | 3.9 | | 4.669 | | 83.8 | 55.1 | 146 | | | |

| Sample ID: 2007006-001AMSD | SampType: MSD | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BS20-01 1' | Batch ID: 53455 | RunNo: 70101 | | | | | | | | |
| Prep Date: 7/1/2020 | Analysis Date: 7/4/2020 | SeqNo: 2435820 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 41 | 9.8 | 48.92 | 8.325 | 67.8 | 47.4 | 136 | 3.38 | 43.4 | |
| Surr: DNOP | 4.1 | | 4.892 | | 83.7 | 55.1 | 146 | 0 | 0 | |

| Sample ID: 2007006-021AMS | SampType: MS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|----------------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BS20-21 1' | Batch ID: 53480 | RunNo: 70104 | | | | | | | | |
| Prep Date: 7/2/2020 | Analysis Date: 7/5/2020 | SeqNo: 2436145 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 48 | 9.6 | 47.94 | 4.069 | 91.6 | 47.4 | 136 | | | |
| Surr: DNOP | 3.8 | | 4.794 | | 79.1 | 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#: 2007006

09-Jul-20

Client: Devon Energy
Project: Red Bull 31 State 1

| Sample ID: 2007006-021AMSD | SampType: MSD | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BS20-21 1' | Batch ID: 53480 | RunNo: 70104 | | | | | | | | |
| Prep Date: 7/2/2020 | Analysis Date: 7/5/2020 | SeqNo: 2436146 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 52 | 9.9 | 49.60 | 4.069 | 96.7 | 47.4 | 136 | 8.03 | 43.4 | |
| Surr: DNOP | 2.6 | | 4.960 | | 53.2 | 55.1 | 146 | 0 | 0 | S |

| Sample ID: LCS-53484 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 53484 | RunNo: 70104 | | | | | | | | |
| Prep Date: 7/2/2020 | Analysis Date: 7/4/2020 | SeqNo: 2436177 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 52 | 10 | 50.00 | 0 | 104 | 70 | 130 | | | |
| Surr: DNOP | 5.1 | | 5.000 | | 103 | 55.1 | 146 | | | |

| Sample ID: MB-53480 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|--------------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 53480 | RunNo: 70104 | | | | | | | | |
| Prep Date: 7/2/2020 | Analysis Date: 7/5/2020 | SeqNo: 2436179 Units: mg/Kg | | | | | | | | |
| 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 | 8.3 | | 10.00 | | 83.1 | 55.1 | 146 | | | |

| Sample ID: MB-53484 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|--------------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 53484 | RunNo: 70104 | | | | | | | | |
| Prep Date: 7/2/2020 | Analysis Date: 7/4/2020 | SeqNo: 2436180 Units: mg/Kg | | | | | | | | |
| 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 | 9.8 | | 10.00 | | 97.6 | 55.1 | 146 | | | |

| Sample ID: LCS-53480 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 53480 | RunNo: 70104 | | | | | | | | |
| Prep Date: 7/2/2020 | Analysis Date: 7/5/2020 | SeqNo: 2436187 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 52 | 10 | 50.00 | 0 | 104 | 70 | 130 | | | |
| Surr: DNOP | 3.8 | | 5.000 | | 76.0 | 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#: 2007006

09-Jul-20

Client: Devon Energy
Project: Red Bull 31 State 1

| | | | | | | | | | | |
|----------------------------|--------------------------------|-----|-----------|--|------|--------------------|-----------|------|----------|------|
| Sample ID: MB-53520 | SampType: MBLK | | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | |
| Client ID: PBS | Batch ID: 53520 | | | RunNo: 70110 | | | | | | |
| Prep Date: 7/6/2020 | Analysis Date: 7/7/2020 | | | SeqNo: 2437862 | | Units: %Rec | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 12 | | 10.00 | | 119 | 55.1 | 146 | | | |

| | | | | | | | | | | |
|-----------------------------|--------------------------------|-----|-----------|--|------|--------------------|-----------|------|----------|------|
| Sample ID: LCS-53520 | SampType: LCS | | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | |
| Client ID: LCSS | Batch ID: 53520 | | | RunNo: 70110 | | | | | | |
| Prep Date: 7/6/2020 | Analysis Date: 7/7/2020 | | | SeqNo: 2437863 | | Units: %Rec | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 5.9 | | 5.000 | | 119 | 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

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

WO#: 2007006

09-Jul-20

Client: Devon Energy
Project: Red Bull 31 State 1

| Sample ID: 2007006-002ams | SampType: MS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|----------------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BS20-02 1' | Batch ID: 53450 | RunNo: 70103 | | | | | | | | |
| Prep Date: 7/1/2020 | Analysis Date: 7/3/2020 | SeqNo: 2436007 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 21 | 5.0 | 24.83 | 0 | 85.3 | 80 | 120 | | | |
| Surr: BFB | 1100 | | 993.0 | | 106 | 66.6 | 105 | | | S |

| Sample ID: 2007006-002amsd | SampType: MSD | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-----------------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|-------|----------|------|
| Client ID: BS20-02 1' | Batch ID: 53450 | RunNo: 70103 | | | | | | | | |
| Prep Date: 7/1/2020 | Analysis Date: 7/3/2020 | SeqNo: 2436008 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 21 | 5.0 | 24.88 | 0 | 84.8 | 80 | 120 | 0.365 | 20 | |
| Surr: BFB | 1100 | | 995.0 | | 107 | 66.6 | 105 | 0 | 0 | S |

| Sample ID: 2007006-022ams | SampType: MS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|----------------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BS20-22 1' | Batch ID: 53454 | RunNo: 70103 | | | | | | | | |
| Prep Date: 7/1/2020 | Analysis Date: 7/4/2020 | SeqNo: 2436029 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 20 | 4.8 | 23.95 | 0 | 84.9 | 80 | 120 | | | |
| Surr: BFB | 980 | | 957.9 | | 103 | 66.6 | 105 | | | |

| Sample ID: 2007006-022amsd | SampType: MSD | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-----------------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BS20-22 1' | Batch ID: 53454 | RunNo: 70103 | | | | | | | | |
| Prep Date: 7/1/2020 | Analysis Date: 7/4/2020 | SeqNo: 2436030 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 19 | 4.7 | 23.74 | 0 | 80.4 | 80 | 120 | 6.23 | 20 | |
| Surr: BFB | 980 | | 949.7 | | 104 | 66.6 | 105 | 0 | 0 | |

| Sample ID: lcs-53450 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 53450 | RunNo: 70103 | | | | | | | | |
| Prep Date: 7/1/2020 | Analysis Date: 7/3/2020 | SeqNo: 2436049 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 22 | 5.0 | 25.00 | 0 | 88.8 | 80 | 120 | | | |
| Surr: BFB | 1100 | | 1000 | | 110 | 66.6 | 105 | | | S |

| Sample ID: lcs-53454 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-----------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 53454 | RunNo: 70103 | | | | | | | | |
| Prep Date: 7/1/2020 | Analysis Date: 7/4/2020 | SeqNo: 2436050 Units: mg/Kg | | | | | | | | |
| 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#: 2007006

09-Jul-20

Client: Devon Energy
Project: Red Bull 31 State 1

| Sample ID: lcs-53454 | SampType: LCS | | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | |
|-------------------------------|--------------------------------|-----|-----------|---|------|---------------------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 53454 | | | RunNo: 70103 | | | | | | |
| Prep Date: 7/1/2020 | Analysis Date: 7/4/2020 | | | SeqNo: 2436050 | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 22 | 5.0 | 25.00 | 0 | 86.6 | 80 | 120 | | | |
| Surr: BFB | 1000 | | 1000 | | 105 | 66.6 | 105 | | | |

| Sample ID: mb-53450 | SampType: MBLK | | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | |
|-------------------------------|--------------------------------|-----|-----------|---|------|---------------------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 53450 | | | RunNo: 70103 | | | | | | |
| Prep Date: 7/1/2020 | Analysis Date: 7/3/2020 | | | SeqNo: 2436051 | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 980 | | 1000 | | 98.4 | 66.6 | 105 | | | |

| Sample ID: mb-53454 | SampType: MBLK | | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | |
|-------------------------------|--------------------------------|-----|-----------|---|------|---------------------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 53454 | | | RunNo: 70103 | | | | | | |
| Prep Date: 7/1/2020 | Analysis Date: 7/4/2020 | | | SeqNo: 2436052 | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 970 | | 1000 | | 96.6 | 66.6 | 105 | | | |

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#: 2007006

09-Jul-20

Client: Devon Energy
Project: Red Bull 31 State 1

| Sample ID: 2007006-001ams | SampType: MS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BS20-01 1' | Batch ID: 53450 | RunNo: 70103 | | | | | | | | |
| Prep Date: 7/1/2020 | Analysis Date: 7/3/2020 | SeqNo: 2436076 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.97 | 0.025 | 0.9980 | 0 | 96.8 | 78.5 | 119 | | | |
| Toluene | 1.0 | 0.050 | 0.9980 | 0.01102 | 98.7 | 75.7 | 123 | | | |
| Ethylbenzene | 1.0 | 0.050 | 0.9980 | 0 | 102 | 74.3 | 126 | | | |
| Xylenes, Total | 3.1 | 0.10 | 2.994 | 0 | 104 | 72.9 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 0.9980 | | 110 | 80 | 120 | | | |

| Sample ID: 2007006-001amsd | SampType: MSD | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|--------|----------|------|
| Client ID: BS20-01 1' | Batch ID: 53450 | RunNo: 70103 | | | | | | | | |
| Prep Date: 7/1/2020 | Analysis Date: 7/3/2020 | SeqNo: 2436077 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.97 | 0.025 | 0.9911 | 0 | 97.4 | 78.5 | 119 | 0.0785 | 20 | |
| Toluene | 0.99 | 0.050 | 0.9911 | 0.01102 | 99.1 | 75.7 | 123 | 0.356 | 20 | |
| Ethylbenzene | 1.0 | 0.050 | 0.9911 | 0 | 102 | 74.3 | 126 | 0.549 | 20 | |
| Xylenes, Total | 3.1 | 0.099 | 2.973 | 0 | 103 | 72.9 | 130 | 1.18 | 20 | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 0.9911 | | 110 | 80 | 120 | 0 | 0 | |

| Sample ID: 2007006-021ams | SampType: MS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BS20-21 1' | Batch ID: 53454 | RunNo: 70103 | | | | | | | | |
| Prep Date: 7/1/2020 | Analysis Date: 7/4/2020 | SeqNo: 2436098 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.90 | 0.024 | 0.9588 | 0 | 93.4 | 78.5 | 119 | | | |
| Toluene | 0.93 | 0.048 | 0.9588 | 0.01188 | 95.4 | 75.7 | 123 | | | |
| Ethylbenzene | 0.94 | 0.048 | 0.9588 | 0 | 98.3 | 74.3 | 126 | | | |
| Xylenes, Total | 2.9 | 0.096 | 2.876 | 0 | 99.1 | 72.9 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 0.9588 | | 108 | 80 | 120 | | | |

| Sample ID: 2007006-021amsd | SampType: MSD | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BS20-21 1' | Batch ID: 53454 | RunNo: 70103 | | | | | | | | |
| Prep Date: 7/1/2020 | Analysis Date: 7/4/2020 | SeqNo: 2436099 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.92 | 0.024 | 0.9785 | 0 | 93.5 | 78.5 | 119 | 2.14 | 20 | |
| Toluene | 0.95 | 0.049 | 0.9785 | 0.01188 | 95.7 | 75.7 | 123 | 2.40 | 20 | |
| Ethylbenzene | 0.96 | 0.049 | 0.9785 | 0 | 98.5 | 74.3 | 126 | 2.15 | 20 | |
| Xylenes, Total | 2.9 | 0.098 | 2.935 | 0 | 98.5 | 72.9 | 130 | 1.37 | 20 | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 0.9785 | | 105 | 80 | 120 | 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#: 2007006

09-Jul-20

Client: Devon Energy
Project: Red Bull 31 State 1

| Sample ID: LCS-53450 | SampType: LCS | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|-----------------------------|--------------------------------|-------|-----------|--|------|---------------------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 53450 | | | RunNo: 70103 | | | | | | |
| Prep Date: 7/1/2020 | Analysis Date: 7/3/2020 | | | SeqNo: 2436121 | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.97 | 0.025 | 1.000 | 0 | 97.5 | 80 | 120 | | | |
| Toluene | 0.98 | 0.050 | 1.000 | 0 | 98.1 | 80 | 120 | | | |
| Ethylbenzene | 0.99 | 0.050 | 1.000 | 0 | 99.4 | 80 | 120 | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 101 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 110 | 80 | 120 | | | |

| Sample ID: LCS-53454 | SampType: LCS | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|-----------------------------|--------------------------------|-------|-----------|--|------|---------------------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 53454 | | | RunNo: 70103 | | | | | | |
| Prep Date: 7/1/2020 | Analysis Date: 7/4/2020 | | | SeqNo: 2436122 | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.025 | 1.000 | 0 | 101 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 99.7 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 99.9 | 80 | 120 | | | |
| Xylenes, Total | 3.1 | 0.10 | 3.000 | 0 | 102 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 108 | 80 | 120 | | | |

| Sample ID: mb-53450 | SampType: MBLK | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|----------------------------|--------------------------------|-------|-----------|--|------|---------------------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 53450 | | | RunNo: 70103 | | | | | | |
| Prep Date: 7/1/2020 | Analysis Date: 7/3/2020 | | | SeqNo: 2436123 | | Units: mg/Kg | | | | |
| 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: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 106 | 80 | 120 | | | |

| Sample ID: mb-53454 | SampType: MBLK | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|----------------------------|--------------------------------|-------|-----------|--|------|---------------------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 53454 | | | RunNo: 70103 | | | | | | |
| Prep Date: 7/1/2020 | Analysis Date: 7/4/2020 | | | SeqNo: 2436124 | | Units: mg/Kg | | | | |
| 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: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 106 | 80 | 120 | | | |

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#: 2007006

09-Jul-20

Client: Devon Energy
Project: Red Bull 31 State 1

| Sample ID: MB-53481 | SampType: MBLK | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | | | |
|-----------------------------|--------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 53481 | RunNo: 70102 | | | | | | | | |
| Prep Date: 7/2/2020 | Analysis Date: 7/3/2020 | SeqNo: 2435895 | Units: mg/Kg | | | | | | | |
| 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 | 0.50 | | 0.5000 | | 101 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.43 | | 0.5000 | | 86.3 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.51 | | 0.5000 | | 101 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.50 | | 0.5000 | | 100 | 70 | 130 | | | |

| Sample ID: LCS-53481 | SampType: LCS4 | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | | | |
|-----------------------------|--------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BatchQC | Batch ID: 53481 | RunNo: 70102 | | | | | | | | |
| Prep Date: 7/2/2020 | Analysis Date: 7/3/2020 | SeqNo: 2435896 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.025 | 1.000 | 0 | 105 | 80 | 120 | | | |
| Toluene | 1.1 | 0.050 | 1.000 | 0 | 107 | 80 | 120 | | | |
| Ethylbenzene | 1.1 | 0.050 | 1.000 | 0 | 109 | 80 | 120 | | | |
| Xylenes, Total | 3.3 | 0.10 | 3.000 | 0 | 108 | 80 | 120 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.49 | | 0.5000 | | 98.4 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.43 | | 0.5000 | | 86.7 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.48 | | 0.5000 | | 96.8 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.51 | | 0.5000 | | 101 | 70 | 130 | | | |

| Sample ID: 2007006-041ams | SampType: MS4 | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | | | |
|----------------------------------|--------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: WS20-19 0-1 | Batch ID: 53481 | RunNo: 70102 | | | | | | | | |
| Prep Date: 7/2/2020 | Analysis Date: 7/4/2020 | SeqNo: 2435898 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.1 | 0.024 | 0.9434 | 0 | 117 | 71.1 | 115 | | | S |
| Toluene | 1.1 | 0.047 | 0.9434 | 0 | 115 | 79.6 | 132 | | | |
| Ethylbenzene | 1.1 | 0.047 | 0.9434 | 0 | 114 | 83.8 | 134 | | | |
| Xylenes, Total | 3.2 | 0.094 | 2.830 | 0 | 115 | 82.4 | 132 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.47 | | 0.4717 | | 100 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.43 | | 0.4717 | | 90.4 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.47 | | 0.4717 | | 100 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.48 | | 0.4717 | | 102 | 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#: 2007006

09-Jul-20

Client: Devon Energy
Project: Red Bull 31 State 1

| Sample ID: 2007006-041amsd | | SampType: MSD4 | | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | |
|-----------------------------------|--------|--------------------------------|-----------|---|------|---------------------|-----------|-------|----------|------|
| Client ID: WS20-19 0-1 | | Batch ID: 53481 | | RunNo: 70102 | | | | | | |
| Prep Date: 7/2/2020 | | Analysis Date: 7/4/2020 | | SeqNo: 2435899 | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.024 | 0.9434 | 0 | 111 | 71.1 | 115 | 4.66 | 20 | |
| Toluene | 1.1 | 0.047 | 0.9434 | 0 | 113 | 79.6 | 132 | 2.23 | 20 | |
| Ethylbenzene | 1.1 | 0.047 | 0.9434 | 0 | 113 | 83.8 | 134 | 0.676 | 20 | |
| Xylenes, Total | 3.1 | 0.094 | 2.830 | 0 | 111 | 82.4 | 132 | 3.42 | 20 | |
| Surr: 1,2-Dichloroethane-d4 | 0.46 | | 0.4717 | | 97.9 | 70 | 130 | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 0.41 | | 0.4717 | | 87.8 | 70 | 130 | 0 | 0 | |
| Surr: Dibromofluoromethane | 0.47 | | 0.4717 | | 100 | 70 | 130 | 0 | 0 | |
| Surr: Toluene-d8 | 0.49 | | 0.4717 | | 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#: 2007006

09-Jul-20

Client: Devon Energy
Project: Red Bull 31 State 1

| Sample ID: MB-53481 | SampType: MBLK | TestCode: EPA Method 8015D Mod: Gasoline Range | | | | | | | | |
|-------------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 53481 | RunNo: 70102 | | | | | | | | |
| Prep Date: 7/2/2020 | Analysis Date: 7/3/2020 | SeqNo: 2435961 Units: mg/Kg | | | | | | | | |
| 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 | | 97.5 | 70 | 130 | | | |

| Sample ID: LCS-53481 | SampType: LCS | TestCode: EPA Method 8015D Mod: Gasoline Range | | | | | | | | |
|-------------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 53481 | RunNo: 70102 | | | | | | | | |
| Prep Date: 7/2/2020 | Analysis Date: 7/3/2020 | SeqNo: 2435962 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 22 | 5.0 | 25.00 | 0 | 89.9 | 70 | 130 | | | |
| Surr: BFB | 490 | | 500.0 | | 98.7 | 70 | 130 | | | |

| Sample ID: 2007006-042ams | SampType: MS | TestCode: EPA Method 8015D Mod: Gasoline Range | | | | | | | | |
|----------------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: WS20-20 0-1 | Batch ID: 53481 | RunNo: 70102 | | | | | | | | |
| Prep Date: 7/2/2020 | Analysis Date: 7/4/2020 | SeqNo: 2435965 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 20 | 4.8 | 23.99 | 0 | 84.6 | 70 | 130 | | | |
| Surr: BFB | 470 | | 479.8 | | 98.6 | 70 | 130 | | | |

| Sample ID: 2007006-042amsd | SampType: MSD | TestCode: EPA Method 8015D Mod: Gasoline Range | | | | | | | | |
|-----------------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: WS20-20 0-1 | Batch ID: 53481 | RunNo: 70102 | | | | | | | | |
| Prep Date: 7/2/2020 | Analysis Date: 7/4/2020 | SeqNo: 2435966 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 22 | 5.0 | 24.88 | 0 | 89.4 | 70 | 130 | 9.08 | 20 | |
| Surr: BFB | 490 | | 497.5 | | 98.3 | 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: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Devon Energy

Work Order Number: 2007006

RcptNo: 1

Received By: Juan Rojas

7/1/2020 9:20:00 AM

Completed By: Juan Rojas

7/1/2020 10:34:26 AM

Reviewed By: *LR*

7/1/20

*Juan Rojas**Juan Rojas*

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°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: *SPA 7.1.20*

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:

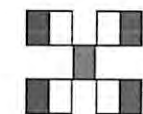
17. Cooler Information

| Cooler No | Temp $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1 | 0.7 | Good | | | | |

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.

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.

| | | | |
|-------------------------------------|--|---|-------------------------------|
| Chain-of-Custody Record | | Turn-Around Time: 5 Day | |
| Client: Devon Energy | | <input checked="" type="checkbox"/> Standard | <input type="checkbox"/> Rush |
| A. Davis | | Project Name: Red Bull 31 state 1 | |
| Mailing Address: | | | |
| | | | |
| Phone #: | | Project #: 20E-00141 | |
| email or Fax#: | | Project Manager: Natalie Gordon | |
| QA/QC Package: | | | |
| <input type="checkbox"/> Standard | <input type="checkbox"/> Level 4 (Full Validation) | | |
| Accreditation: | <input type="checkbox"/> Az Compliance | Sampler: MSB | |
| <input type="checkbox"/> NELAC | <input type="checkbox"/> Other | On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| <input type="checkbox"/> EDD (Type) | | # of Coolers: 1 | |
| | | Cooler Temp (including CF): 0.8-1 = 6.7 (°C) | |



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

Remarks: CC: Natalia Goodwin

Direct

W/O # 20829672 Bill Duvor

| Received by: | Via: | Date | Time |
|--------------------|----------------|---------------|--------------|
| <i>[Signature]</i> | <i>Express</i> | <i>7/1/20</i> | <i>11:00</i> |
| Received by: | Via: | Date | Time |
| <i>[Signature]</i> | <i>Express</i> | <i>7/1/20</i> | <i>9:20</i> |

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.

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

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

CONDITIONS

Action 9536

CONDITIONS

| | |
|--|---|
| Operator: Pima Environmental Services, LLC 5614 N Lovington Hwy Hobbs, NM 88240 | OGRID: 329999 |
| | Action Number: 9536 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| | | |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| bhall | None | 9/19/2022 |