

November 13, 2020

Vertex Project #: 20E-00141-013

Spill Closure Report:	Todd 13 Battery	
	Unit P, Section 17, Township 23 South, Range 32 East	
	County: Lea	
	API: N/A	
	Tracking Number: NRM2003154559	
Prepared For:	Devon Energy Production Company	
	6488 Seven Rivers Highway	

Artesia, New Mexico 88210

New Mexico Oil Conservation Division – District 1 – Hobbs 1625 North French Drive Hobbs, New Mexico 88240

Devon Energy Production Company (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct a spill assessment and remediation following a produced water release on November 5, 2019, at Todd 13 Battery (hereafter referred to as "Todd 13"). Devon provided notification of the spill to New Mexico Oil Conservation Division (NM OCD) District 1 and the Bureau of Land Management (BLM), who owns the property, on December 6, 2019, via submission of an initial C-141 Release Notification (Attachment 1). The NM OCD tracking number assigned to this incident is NRM2003154559.

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 November 5, 2019, a release occurred at Devon's Todd 13 site when a water line developed a leak. This incident resulted in the release of approximately six barrels (bbls) of produced water onto the wellpad. No free liquids were recovered. The spill was contained on-lease and no produced water was released into undisturbed areas or waterways.

Site Characterization

The release at Todd 13 occurred on federally owned land, N 32.297371, W 103.689202, approximately 30 miles east of Carlsbad, New Mexico. The legal description for the site is Unit P, Section 17, Township 23 South, Range 32 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.

Todd 13 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 where Todd

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13 is located.

The surrounding landscape is associated with sandy dunes and plains typical of elevations between 3,000 and 4,400 feet above sea level. The climate is semi-arid, with average annual precipitation ranging between 10 and 12 inches. Historically, the plant community has been dominated by grasses, with scattered shinnery oak and sand sage; perennial and annual forb abundance are dependent on precipitation. The dominant grass species are black grama, dropseeds and bluestems. Litter and, to a lesser extent, bare ground are a significant proportion of ground cover (United States Department of Agriculture, Natural Resources Conservation Service, 2020).

The Geological Map of New Mexico indicates the surface geology at Todd 13 is comprised of Qep – eolian and piedmont deposits, that include eolian sands interlaid with piedmont-slope deposits (New Mexico Bureau of Geology and Mineral Resources, 2020). The Natural Resources Conservation Service *Web Soil Survey* characterizes the soil at the site as on the cusp of Pyote and maljamar fine sands and Kermit-Palomas fine sands. These types of soils typically consist of deep layers of fine sand and sandy clay loam over cemented material. It tends to be well-drained with very low runoff and moderate available moisture levels 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 Todd 13, though some erosional karst is possible (United States Department of the Interior, United States Geological Survey, 2020a).

There is no surface water located on-site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is an intermittent stream located approximately 12 miles southwest of Todd 13 (United States Department of the Interior, United States Geological Survey, 2020b). A freshwater stock pond is located approximately 5.5 miles west-northwest of the release site (United States Fish and Wildlife Service, 2020). At Todd 13, there are no continuously flowing watercourses, lakebeds, sinkholes, playa lakes, or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

The nearest groundwater well to the site is a New Mexico Office of the State Engineer-identified well, located approximately one mile south of Todd 13, with a depth to groundwater of 713 feet below ground surface (bgs; New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System, 2020). Documentation pertaining to site characterization and depth to groundwater determination is included in Attachment 3.

Closure Criteria Determination

Using site characterization information, a closure criteria determination worksheet (Attachment 3) was completed to determine if the release was 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 Todd 13 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 Todd 13 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
	Chloride	600 mg/kg
	TPH ¹	100 mg/kg
< 50 feet	(GRO + DRO + MRO)	100 mg/kg
	BTEX ²	50 mg/kg
	Benzene	10 mg/kg

¹Total petroleum hydrocarbons (TPH) = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO) ²Benzene, toluene, ethylbenzene and xylenes (BTEX)

Remedial Actions

An initial spill inspection, completed on January 30, 2020, identified and mapped the boundaries of the release using field screening methods, including a photoionization detector (PID) to determine the presence of volatile organics, the Petroflag system to estimate the level of hydrocarbons and an electroconductivity (EC) meter to approximate chloride levels in the soil. The release area was determined to be approximately 42 feet long and 20 feet wide; the total affected area was determined to be 476 square feet, including the heater treater and existing infrastructure. The Daily Field Report associated with the initial spill inspection and release characterization is included in Attachment 4.

On February 18, 2020, Vertex provided 48-hour notification of confirmation sampling to NM OCD, as required by Subparagraph (a) of Paragraph (1) of Subsection D 19.15.29.12 NMAC (Attachment 5). Remediation via excavation of contaminated materials was conducted between February 21 and 24, 2020, to a depth of approximately 0.5 feet bgs. Following completion of remediation activities on February 24, 2020, one five-point confirmatory sample was collected from the base of the excavation. The composite sample was placed into a laboratory-provided container, preserved on ice and submitted to a National Environmental Laboratory Accreditation Program (NELAP)-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 sample analytical data are summarized in Attachment 6. Laboratory data reports and chain of custody forms are included in Attachment 7.

A GeoExplorer 7000 Series Trimble global positioning system (GPS) unit, or equivalent, was used to map the approximate center of the five-point composite sample. The confirmatory sample location is presented on Figure 2 (Attachment 2).

The laboratory results for the initial confirmatory sample failed to meet NM OCD closure criteria as shown in Table 1. Vertex returned to Todd 13 to conduct additional remediation to 1-foot bgs and re-collect the confirmatory sample. At that time, an additional two confirmatory samples were collected from the base and one sidewall of the excavation to meet the requirements of the alternate sampling method outlined in Subparagraph (c) of Paragraph (1) of Subsection D 19.15.29.12 NMAC, which states that each composite sample can be representative of no more than 200 square feet. The samples were placed into laboratory-provided containers, preserved on ice and submitted to a NELAP laboratory for analysis.

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The additional confirmatory sample locations were marked using GPS and are shown on Figure 2 (Attachment 2). The final laboratory results for the confirmatory samples are presented in Table 2 (Attachment 6). Laboratory data reports and chain of custody forms are included in Attachment 7.

Closure Request Denial and Additional Activities

On August 6, 2020, Devon requested closure for the release at Todd 13, at Vertex's recommendation. On October 15, 2020, the NM OCD denied closure for this incident (Attachment 8) based on the following:

- Insufficient wall samples were collected to demonstrate complete horizontal delineation in accordance with Subparagraph (b) of Paragraph (5) of Subsection A 19.15.29.11 NMAC.
- A 48-hour notice was not given to NM OCD for the June 17, 2020 sampling event

On October 22, 2020, Vertex provided 48-hour notification of additional confirmation sampling to NM OCD, as required by Subparagraph (a) of Paragraph (1) of Subsection D 19.15.29.12 NMAC (Attachment 5); and on October 26, 2020, Vertex returned to Todd 13 to collect additional wall samples to confirm full delineation and remediation to the horizontal boundaries of the release as required by 19.15.29.11 NMAC. A total of 3 additional wall samples were collected at the horizontal extents of the original release and remediation area to verify the edges of the release had been accurately identified. The confirmatory samples were placed into laboratory-provided containers and submitted to an 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. The additional confirmatory sampling analytical data are summarized in the revised Table 2 (Attachment 6). 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 additional confirmatory wall samples. The new wall samples are presented along with the original confirmatory base and side wall samples on Figure 3 (Attachment 2).

Closure Request

Vertex recommends no additional remediation action necessary to address the release at Todd 13. Laboratory analyses of the final confirmatory samples, including the additional wall samples, showed constituent of concern concentration levels below NM OCD closure criteria as shown in Table 1. There are no anticipated risks to human, ecological or hydrological receptors associated with the release site.

Vertex requests that this incident (NRM2003154559) be closed as the original closure request denial (Attachment 8) reasons have been addressed and 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 November 5, 2019, release at Todd 13.

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

Sincerely,

atalie fordon

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. Required 48-hr Notification of Confirmation Sampling to Regulatory Agencies
- Attachment 6. Laboratory Data Tables
- Attachment 7. Laboratory Data Reports/Chain of Custody Forms
- Attachment 8. NM OCD Original Closure Request Denial

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. (2020a). *Caves and Karst in the U.S. National Park Service*. Retrieved from https://www.arcgis.com/home/webmap/viewer.html?webmap=14675403c3794 8129acb758138f2dd1e
- United States Department of the Interior, United States Geological Survey. (2020b). *The National Map: National Hydrography Dataset*. Retrieved from https://www.arcgis.com/home/webmap/viewer.html?url=https%3A%2F %2Fbasemap.nationalmap.gov%2Farcgis%2Frest%2Fservices%2FUSGSHydroCached%2FMapServer&source=sd.
- United States Fish and Wildlife Service. (2020). *National Wetlands Inventory*. Retrieved from https://www.fws.gov /wetlands/data/Mapper.html.

2020 Spill Assessment and Closure August 2020

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.

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ATTACHMENT 1

State of New Mexico **Energy Minerals and Natural Resources Department**

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

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Incident ID	NRM2003154559
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

X95D8-191206-C-1410

Responsible Party Devon Energy Production Company	OGRID ₆₁₃₇
Contact Name Amanda T. Davis	Contact Telephone 575-748-0176
Contact email amanda.davis@dvn.com	Incident # (assigned by OCD)
Contact mailing address 6488 Seven Rivers HWY	

Location of Release Source

Latitude _____32.297371

Longitude -103.689202 (NAD 83 in decimal degrees to 5 decimal places)

Site Name Todd 13 Battery	Site Type Oil
Date Release Discovered 11/5/2019	API# (if applicable)

Unit Letter	Section	Township	Range	County
Р	17	23S	32E	Lea

Surface Owner: State Federal Tribal Private (Name: _

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 5.8	Volume Recovered (bbls) ₀
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release Wate	er line leak causing fluid release. Spill calcu	lations 3'x54'x12".

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Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	
🗌 Yes 🔳 No	
If YES, was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Spill was not in containment.

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name:	Kendra DeHoyos
Signature:	Kendra DeHoyos

_{email:} kendra.dehoyos@dvn.com

OCD Only

Received by: Ramona Marcus Date: 1/31/2020

Title: EHS Associate

Telephone: 575-748-3371

Date: 11/18/2019

Received by OCD: 10/7/2020/8918:15 74M1 Form C-141 State of New Mexico

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Oil Conservation Division

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Site Assessment/Characterization

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

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

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

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

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

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

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romi C-141	NRM2003154559			
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regulations all operators a public health or the enviro failed to adequately inves addition, OCD acceptance and/or regulations. Printed Name:	Tom Bynum	tifications and perform co OCD does not relieve the reat to groundwater, surfa-	rrective actions for rele operator of liability sho ce water, human health iance with any other fec sultant	ases which may endanger ould their operations have or the environment. In
OCD Only Received by:Cri	istina Eads	Date: 11/1	7/2020	

Received by OCD: 10/7/2020/8918:15 AM1 State of New Mexico

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Oil Conservation Division

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Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. X A scaled site and sampling diagram as described in 19.15.29.11 NMAC X 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) X 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:
 11/14/2020

 email:
 tom.bynum@dvn.com
 Telephone:
 575-748-2663
 OCD Only Date: 11/17/2020 **Cristina Eads** Received by: 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. Mind Date: 01/29/2021 Closure Approved by: Printed Name: Cristina Eads Title: Environmental Specialist

ATTACHMENT 2

Client Name: Devon Energy Production Company Site Name: Todd 13 Battery NM OCD Tracking #: NRM2003154559 Project #: 20E-00141-013 Lab Report: 2002001

	Tab	ole 2. Release Charac	terization S	Sampling Fi	eld Screen	ing and Lab	oratory Da	ata - Depth	to Ground	water < 50	feet		
	Sample Descrip	tion	F	ield Screenir	ng			Petrol	eum Hydroc	arbons			Inorganic
				g)	()	Vol	atile			Extractable			morganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (Petro Flag)	Inorganics (Electrical Conductivity)	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride
			(ppm)	(ppm)	(+/-)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SS20-01	0	January 30, 2020	0.6	>2,500	415	<0.024	<0.213	<4.7	2,900	4,200	2,900	4,200	720
SS20-02	0	January 30, 2020	0.6	>2,500	218	-	-	-	-	-	-	-	-
SS20-03	0	January 30, 2020	0.5	>2,500	120	-	-	-	-	-	-	-	-
SS20-04	0	January 30, 2020	0.1	617	135	-	-	-	-	-	-	-	-
SS20-05	0	January 30, 2020	0.0	55	103	-	-	-	-	-	-	-	-
SS20-06	0	January 30, 2020	0.2	7	1,698	-	-	-	-	-	-	-	-
BH20-01	0	January 30, 2020	12.5	1,148	90	-	-	-	-	-	-	-	-
BH20-01	1	January 30, 2020	20.1	-	105	-	-	-	-	-	-	-	-
BH20-01	2	January 30, 2020	3.1	-	202	-	-	-	-	-	-	-	-
BH20-01	3	January 30, 2020	1.1	62	75	-	-	-	-	-	-	-	-
BH20-01	4	January 30, 2020	1.4	-	85	-	-	-	-	-	-	-	-
BH20-02	0	January 30, 2020	0.5	1,115	130	-	-	-	-	-	-	-	-
BH20-02	1	January 30, 2020	0.7	1,028	183	-	-	-	-	-	-	-	-
BH20-02	2	January 30, 2020	0.8	-	65	-	-	-	-	-	-	-	-
BH20-02	3	January 30, 2020	0.8	-	153	-	-	-	-	-	-	-	-
BH20-02	4	January 30, 2020	0.4	-	515	-	-	-	-	-	-	-	-
BH20-02	5	January 30, 2020	0.4	-	585	-	-	-	-	-	-	-	-
BH20-03	0	January 30, 2020	1.2	1,057	2,680	-	-	-	-	-	-	-	-
BH20-03	1	January 30, 2020	0.9	-	2,035	-	-	-	-	-	-	-	-
BH20-03	2	January 30, 2020	0.7	926	318	-	-	-	-	-	-	-	-
BH20-03	3	January 30, 2020	0.6	786	340	-	-	-	-	-	-	-	-
BH20-03	4	January 30, 2020	0.6	977	358	-	-	-	-	-	-	-	-
BH20-03	5	January 30, 2020	0.2	562	553	<0.024	<0.215	<4.8	170	240	170	410	590
BH20-04	0	January 30, 2020	0.5	-	90	-	-	-	-	-	-	-	-
BH20-04	1	January 30, 2020	0.5	-	120		-	-	-	-	-	-	-
BH20-04	2	January 30, 2020	0.5	-	75	-	-	-	-	-	-	-	-

"-" indicates not analyzed/assessed

Bold and shaded indicates exceedance outside of applied action level



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Client Name: Devon Energy Production Company Site Name: Todd 13 Battery NM OCD Tracking #: NRM2003154559 Project #: 20E-00141-013 Lab Report: 2002A66, 2006A28, 2010C77

	Ta	ble 3 (Revised). Confi	rmatory Sam	pling Laborate	ory Results -D	epth to Grou	ndwater < 50	feet		
	Sample Description				Petro	oleum Hydroca	rbons			Inorgania
			Vol	atile			Extractable			Inorganic
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride
BC 20.04	0.5	5 - h	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BS 20-01	0.5	February 24, 2020	<0.023	<0.208	<4.6	<9.0	<45	<13.6	<58.6	2,100
BS 20-01	1	June 17, 2020	<0.025	<0.224	<5.0	<9.2	<46	<14.2	<60.2	<60
BS 20-02	1	June 17, 2020	<0.025	<0.221	<4.9	<9.6	<48	<14.5	<62.5	<60
WS 20-01	0-1	June 17, 2020	<0.025	<0.221	<4.9	<9.2	<46	<14.1	<60.1	<60
WS 20-02	0-1	October 26, 2020	<0.025	<0.222	<4.9	<9.6	<48	<14.5	<62.5	100
WS 20-03	0-1	October 26, 2020	<0.025	<0.221	<4.9	<9.4	<47	<14.3	<61.3	<60
WS 20-04	0-1	October 26, 2020	<0.024	<0.217	<4.8	<9.5	<47	<14.3	<61.3	<60

"-" - Not applicable/Not assessed

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

Bold and green shaded indicates a re-sample of areas previously exceeding closure criteria

.







ATTACHMENT 3

•

Closure C	riteria Worksheet				
Site Nam	e: Todd 13 Battery				
Spill Coo	dinates:	X: 32.297371	Y: -103.689202		
Site Spec	ific Conditions	Value	Unit		
1	Depth to Groundwater	713	feet		
2	Within 300 feet of any continuously flowing	95,383	feet		
Z	watercourse or any other significant watercourse	95,565	leet		
3	Within 200 feet of any lakebed, sinkhole or playa lake	29,706	feet		
5	(measured from the ordinary high-water mark)	29,700	ieet		
4	Within 300 feet from an occupied residence, school,	27,424	feet		
-	hospital, institution or church	27,727	1000		
	i) Within 500 feet of a spring or a private, domestic				
5	fresh water well used by less than five households for	5,200	feet		
5	domestic or stock watering purposes, or				
	ii) Within 1000 feet of any fresh water well or spring	5,200	feet		
	Within incorporated municipal boundaries or within a				
	defined municipal fresh water field covered under a				
6	municipal ordinance adopted pursuant to Section 3-27-	No	(Y/N)		
	3 NMSA 1978 as amended, unless the municipality				
	specifically approves				
7	Within 300 feet of a wetland	17,914	feet		
8	Within the area overlying a subsurface mine	No	(Y/N)		
			Critical		
9	Within an unstable area (Karst Map)		High		
9	within an unstable area (Karst Map)		Medium		
			Low		
10	Within a 100-year Floodplain	Undetermined	vear		
10		Undetermined	year		
			<50'		
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	>100'	51-100'		
			>100'		

Todd 13 Battery - 1 mile to OSE Well



7/29/2020, 3:48:27 PM

OSE District Boundary	Acequia Tunnel	— Connector	- Feeder	- Other
GIS WATERS PODs	— Canal	— Culvert	Interior Drain	— Unknown
 Active 	- Channel	— Ditch	Lateral	
Conveyances	- Closed Drain	— Diversion Weir	— Pipe	
— Acequia	- Community Ditch	- Drain	— Wasteway	

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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



(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 (quarters are smalles		E) IAD83 UTM in meters)	(In feet)
POD Number	POD Sub- Code basin Cou	QQQ Inty 64 16 4 Sec Tws	Rng X	Y Distance	Depth Depth Water Well Water Column
C 03851 POD1	CUB LI	-	•	· · · · · · · · · · · · · · · · · · ·	
				Average Depth to	
				Minimum Maximum	
Record Count: 1					

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 623415.26

Northing (Y): 3574152.19

Radius: 1610

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New Mexico Office of the State Engineer Point of Diversion Summary

			(0	quarte	ers are	e 1=l	NW 2=	NE 3	=SW 4=SE	E)				
				(quar	ters a	re sr	nalles	t to lar	gest)	(NA	D83 UT	M in met	ers)	
Well Tag	POI	D Number	Ģ	264 (Q16	Q4	Sec	Tws	Rng		Х		Υ	
	С	03851 POD1		3	3	4	20	23S	32E	62	2880	35726	60 🤇	>
Driller Licens	e:	1723	Drille	r Co	ompa	any			LLC DB	A ST	EWAF	RT BRC	THE	RS DRILLING
Driller Name:		STEWART, RANE	DAL P.				CC).						
Drill Start Dat	te:	08/19/2015	Drill I	Finis	sh Da	ate:		10/	02/2015	5	Plug	Date:		
Log File Date	:	11/10/2015	PCW	Rcv	/ Dat	e:					Sour	ce:		Artesian
Pump Type:			Pipe	Disc	charg	ge S	Size:				Estir	nated Y	/ield:	: 3 GPM
Casing Size:	:	5.00	Deptl	n We	ell:			139	92 feet		Dept	h Wate	r:	713 feet
w	ater	Bearing Stratific	ations	:	Тс	ър	Bott	om	Descrip	otion				
					13	54	1:	380	Limesto	one/D	olomi	te/Chall	<	
		Casing Perfor	ration	S:	Тс	р	Bott	om						
					13	54	1:	383						

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Received by OCD: 10/7/2020 8:18:15 7AM





Todd 13 Watercourse 95,383 ft.



January 28, 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.

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Му Мар



USGS The National Map: National Hydrography Dataset. Data refreshed March, 2020. | USDA FSA, GeoEye, Earthstar Geographics

Received by OCD: 10/7/2020 8:18:15 7AM



Todd 13 Lake 29,706 ft.

Page 28 of 128



January 28, 2020

Wetlands

Estuarine and Marine Deepwater

. Released to Imaging: 2/1/2021 11:52:17 AM

- Estuarine and Marine Wetland

- Freshwater Forested/Shrub Wetland

Freshwater Emergent 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.





New Mexico Office of the State Engineer Active & Inactive Points of Diversion

(with Ownership Information)

					(R=POD has been repl and no longer serves the	D has been replaced longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)					
	(acre ft	per annum)			C=the file is closed)	(quarters are	smallest to largest)	(NAD83 UTM in meters)			
	Sub			Well		9					
WR File Nbr	basin Use Div	ersion Owner	County POD Number	Tag	Code Grant	Source 6416 4	Sec Tws Rng	Х	Y	Distance	
<u>C 03851</u>	CUB MON	0 US DEPARTMENT OF ENERGY	LE <u>C 03851 POD1</u>		NON	Artesian 3 3 4	20 23S 32E	622879	3572660 🌍	1585	
<u>C 02216</u>	CUB PLS	11.3 BRININSTOOL XL RANCH LLC	LE <u>C 02216</u>			224	21 23S 32E	625035	3573261* 🌍	1848	
<u>C 02520</u>	C PRO	0 PENWELL ENERGY	LE <u>C 02520</u>			14	15 23S 32E	626122	3574791* 🌍	2781	
<u>C 03529</u>	C STK	0 MARK MCCLOY	LE <u>C 03529 POD1</u>			243	29 23S 32E	622651	3571212 🌍	3037	
<u>C 02349</u>	CUB STK	3 CHARLES F. JAMES	ED <u>C 02349</u>			23	03 23\$ 32E	625678	3578004* 🌍	4467	
<u>C 03555</u>	C STK	3 NGL WATER SOLUTIONS PERMIAN	LE <u>C 03555 POD1</u>			Shallow 2 2 1	05 24S 32E	622709	3569231 🤤	4971	

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 623415.26

Northing (Y): 3574152.19

Radius: 5000

Sorted by: Distance

*UTM location was derived from PLSS - see Help

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F	WR File Number:			C 03851 Subbasin: CUB					Cross R	eference): -		
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inage list	 Primary Status: Total Acres: Total Diversion: 			РМТ	IT PERMIT								
					Subfile: -				Header: -				
				0 Cause/Cas				ise: -					
					EPARTI RGE BA		OF ENERGY VAZO	/					
cumen	its on F	ile			St	atus			From/				
	Trn #	Doc	File/Ac	t	1	2	Transaction	Desc.	То	Acres	Diversion	Consumptive	
<u>get</u> images	564731	EXPL	2015-07	7-09	PM	LOG	C 03851 POE	01	Т	0	0		
rrent P	oints o	of Diver	sion			200		(NAD83 UTM	l in meters)				
	Numbe	-		- -	Sourco 6	116 /	Sec Tws Rng	Х	Y	Other	Location D	96C	

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Todd 13 Wetland 17,914 ft.



January 28, 2020

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- **Freshwater Pond**

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

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.

Coal Mines in New Mexico



1/28/2020, 5:02:29 PM



National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.

Received by OCD: 10/7/2020/8918/15/AMI INational Flood Hazard Layer FIRMette



Legend

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USDA United States Department of Agriculture

> 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**



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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Soil Map	
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Map Unit Descriptions	
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PU—Pyote and maljamar fine sands	15
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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

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.







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Custom Soil Resource Report

	MAP L	EGEND		MAP INFORMATION
Soils	MAP L nterest (AOI) Area of Interest (AOI) Soil Map Unit Polygons Soil Map Unit Lines Soil Map Unit Points I Point Features Blowout	EGEND	Spoil Area Stony Spot Very Stony Spot Wet Spot Other Special Line Features	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.
9 X < X : 0 A 4 *	Biowoul Borrow Pit Clay Spot Closed Depression Gravel Pit Gravelly Spot Landfill Lava Flow Marsh or swamp Mine or Quarry	Transportat +++ 2 2 Background	Streams and Canals tion Rails Interstate Highways US Routes Major Roads Local Roads	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.
○ > + :: 4 < A Ø	Miscellaneous Water Perennial Water Rock Outcrop Saline Spot Sandy Spot Severely Eroded Spot Sinkhole Slide or Slip Sodic Spot			 This product is generated from the USDA-NRCS certified data a of the version date(s) listed below. Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 16, Sep 15, 2019 Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. Date(s) aerial images were photographed: Dec 31, 2009—Sep 17, 2017 The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol Map Unit Name		Acres in AOI	Percent of AOI
KD	Kermit-Palomas fine sands, 0 to 12 percent slopes	1.3	40.2%
PU	Pyote and maljamar fine sands	2.0	59.8%
Totals for Area of Interest	•	3.3	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.

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.

Lea County, New Mexico

KD—Kermit-Palomas fine sands, 0 to 12 percent slopes

Map Unit Setting

National map unit symbol: dmpv Elevation: 3,000 to 4,400 feet Mean annual precipitation: 10 to 12 inches Mean annual air temperature: 60 to 62 degrees F Frost-free period: 190 to 205 days Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 70 percent *Palomas and similar soils:* 20 percent *Minor components:* 10 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Kermit

Setting

Landform: Dunes Landform position (two-dimensional): Shoulder, backslope, footslope Landform position (three-dimensional): Side slope Down-slope shape: Convex, linear, concave Across-slope shape: Convex Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 3 to 12 percent Depth to restrictive feature: More than 80 inches Natural drainage class: Excessively drained Runoff class: Very low Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr) Depth to water table: More than 80 inches Frequency of flooding: None Frequency of ponding: None Salinity, maximum in profile: Nonsaline (0.0 to 1.0 mmhos/cm) Sodium adsorption ratio, maximum in profile: 2.0 Available water storage in profile: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e Hydrologic Soil Group: A Ecological site: Deep Sand (R042XC005NM) Hydric soil rating: No

Description of Palomas

Setting

Landform: Dunes

Custom Soil Resource Report

Landform position (two-dimensional): Shoulder, backslope, footslope Landform position (three-dimensional): Side slope Down-slope shape: Convex, linear, concave Across-slope shape: Convex Parent material: Alluvium derived from sandstone

Typical profile

A - 0 to 16 inches: fine sand Bt - 16 to 60 inches: sandy clay loam Bk - 60 to 66 inches: sandy loam

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 50 percent
Gypsum, maximum in profile: 1 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 2.0
Available water storage in profile: Moderate (about 7.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e Hydrologic Soil Group: B Ecological site: Loamy Sand (R042XC003NM) Hydric soil rating: No

Minor Components

Maljamar

Percent of map unit: 4 percent Ecological site: Loamy Sand (R042XC003NM) Hydric soil rating: No

Pyote

Percent of map unit: 4 percent Ecological site: Loamy Sand (R042XC003NM) Hydric soil rating: No

Dune land

Percent of map unit: 1 percent Hydric soil rating: No

Palomas

Percent of map unit: 1 percent Ecological site: Loamy Sand (R042XC003NM) Hydric soil rating: No

PU—Pyote and maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq Elevation: 3,000 to 3,900 feet Mean annual precipitation: 10 to 12 inches Mean annual air temperature: 60 to 62 degrees F Frost-free period: 190 to 205 days Farmland classification: Not prime farmland

Map Unit Composition

Maljamar and similar soils: 45 percent Pyote and similar soils: 45 percent Minor components: 10 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Maljamar

Setting

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

Typical profile

A - 0 to 24 inches: fine sand Bt - 24 to 50 inches: sandy clay loam Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Natural drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 5 percent
Gypsum, maximum in profile: 1 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 2.0
Available water storage in profile: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 6e

Custom Soil Resource Report

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

Description of Pyote

Setting

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

Typical profile

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

Properties and qualities

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

Interpretive groups

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

Minor Components

Kermit

Percent of map unit: 10 percent Ecological site: Sandhills (R042XC022NM) Hydric soil rating: No

References

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Custom Soil Resource Report

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ATTACHMENT 4



Client:	Devon Energy Corporation	Inspection Date:	1/29/2020		
Site Location Name:	Todd 13 Battery	- Report Run Date:	2/1/2020 8:27 PM		
Project Owner:	Amanda Davis	- File (Project) #:	20E-00141		
Project Manager:	Natalie Gordon	- API #:			
Client Contact Name:	Amanda Davis	- Reference	11/05/2019 - 6bbls PW		
Client Contact Phone #:	(575) 748-0176	-			
		Summary of	Times		
Left Office	1/29/2020 10:15 AM				
Arrived at Site	1/29/2020 11:30 AM				
Departed Site					
Returned to Office					



Site Sketch 15 Todd B Federal BC Battery 01/29/2020 Initial Visit B.Schafer Fonce -Bunning 5520-0 X Bern -20-0255 33 Heatur Treater Gate-* Berm goes around Buto-3 whole area, very near 5520-05 the fence. Took initial X samples 3 field screened wy what I had available.] X stss took more samples after WWWWW field screens for teh. Did Heater Treater 249 One chloride titration blore it got dock. Likely \$9/19 will need more delineation ess stairs \$520-06 Check SS 20-04 + w/ SS 20-05 -> Petroflag SS 20-06 BH 20-03 4' BH 20-03 5 55 20-01 BH To lab - 20-03 -3 2 2 F5 results -4' Hoto

Run on 2/1/2020 8:27 PM UTC

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Summary of Daily Operations

13:07 Initial characterization and field screening

Next Steps & Recommendations

1		
4		

					Sam	pling			
BH2	0-01								
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
							<	32.305, -103.733	Yes
BH2	0-02								
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	3 ft.						<	32.30575, - 103.73380	Yes
BH2	0-03								
	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.						\checkmark	32.30578, - 103.73387	Yes

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V

VERTEX

Daily Site Visit Report

BH2	0-04								
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	2 ft.						\checkmark	32.30577, - 103.73389	Yes
SS20	D-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.	0.6 ppm			415 ppm		\checkmark	32.30576, - 103.73385	Yes
SS2()-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.	6 ppm	160 ppm		217.5 ppm		\checkmark	32.30575, - 103.73397	Yes
SS20	D-03			1					
	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.	0.5 ppm	891 ppm		120 ppm		\checkmark	32.30579, - 103.73389	Yes

VERTEX

Daily Site Visit Report

20	-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.	0.1 ppm	617 ppm		135 ppm		\checkmark	32.30575, - 103.73400	Yes
S20	-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	55 ppm				\checkmark	32.30581, - 103.73391	Yes



Depth Sample Photos Sample Point ID: BH20-01 Sample Point ID: BH20-02 Depth: Depth: 3 ft. Sample Point ID: BH20-03 Sample Point ID: BH20-04 Depth: 5 ft. Depth: 2 ft.











Daily Site Visit Signature

Inspector: Brandon Schafer

Signature:

Run on 2/1/2020 8:27 PM UTC

•

. Released to Imaging: 2/1/2021 11:52:17 AM



Client:	Devon Energy Corporation	Inspection Date:	2/21/2020		
Site Location Name:	Todd 13 Battery	– Report Run Date:	2/21/2020 11:31 PM		
Project Owner:	Amanda Davis	File (Project) #:	20E-00141		
Project Manager:	Natalie Gordon				
Client Contact Name:	Amanda Davis	– Reference	11/05/2019 - 6bbls PW		
Client Contact Phone #:	(575) 748-0176	_			
		Summary of	Times		
Left Office	2/21/2020 7:30 AM				
Arrived at Site	2/21/2020 8:30 AM				
Departed Site	2/21/2020 2:46 PM				
Returned to Office					

Summary of Daily Operations

9:01 Hand excavation for confirmatory sampling

Next Steps & Recommendations

1 Return to finish excavation





	Site Photos
Viewing Direction: East	Viewing Direction: West
Overview of site	Overview of site
Viewing Direction: Northwest	Viewing Direction: East
Preving Diffestor: Rectawait Description (RMM) Preving Diffestor: Rectawait Description (RMM)	AND
Day's end excavation	Days end excavation



Daily Site Visit Signature

Inspector: Brandon Schafer

Signature:

Run on 2/21/2020 11:31 PM UTC

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. Released to Imaging: 2/1/2021 11:52:17 AM



Client:	Devon Energy Corporation	Inspection Date:	2/24/2020
Site Location Name:	Todd 13 Battery	Report Run Date:	2/25/2020 2:03 AM
Project Owner:	Amanda Davis	File (Project) #:	20E-00141
Project Manager:	Natalie Gordon	API #:	
Client Contact Name:	Amanda Davis	Reference	11/05/2019 - 6bbls PW
Client Contact Phone #:	(575) 748-0176	_	
		Summary of	Times
Left Office	2/24/2020 7:20 AM		
Arrived at Site	2/24/2020 8:11 AM		
Departed Site	2/24/2020 2:02 PM		
Returned to Office			



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Site Sketch Todd 13 Sketch - Day 2 2/24/2026 * First days excavation was 4-6". Samples still errored out on the Petroflag. Am having the crew take out roughly another 6"-10" around the heater treater on the East end of the containment. *Excavation finished and samples came back very clean for confirmation. lived/valves · 3 x = 5 sample pts for conf. Gate / stops -14/ce 12-11-11 6320-0' D 1 (this line is nothing) drew by orcident . drew by activered berm/Fence 0 Mines

Run on 2/25/2020 2:03 AM UTC

. Released to Imaging: 2/1/2021 11:52:17 AM



Summary of Daily Operations

8:11 Continue hand excavation and obtain confirmatory samples

Next Steps & Recommendations

1 Send in samples and await lab results

	Sampling											
ES-E	ES-Base20-01											
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?			
	0 ft.					BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	32.30575480, - 103.73389144	Yes			



Site Photos	
Viewing Direction: East	Viewing Direction: South
	Hubberton (19 Bittern Hubberton (19 Bittern)
Beginning of excavation	Beginning of day 2 excavation
Viewing Direction: Southwest	Viewing Direction: North
	Building the Party of the Party
Beginning of day 2 excavation	Petroflags result



Viewing Direction: East	Viewing Direction: West
End of excavation	End of excavation
Viewing Direction: Northwest	Viewing Direction: West
Excavation	End of Excavation



Viewing Direction: South	Viewing Direction: West
Excavation	Excavation
Viewing Direction: East	Viewing Direction: South
Excavation	Excavation






Depth Sample Photos





Daily Site Visit Signature

Inspector: Brandon Schafer

Signature:

Run on 2/25/2020 2:03 AM UTC

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. Released to Imaging: 2/1/2021 11:52:17 AM



Client:	Devon Energy Corporation	Inspection Date:	6/17/2020	
Site Location Name:	Todd 13 Battery	Report Run Date:	6/19/2020 5:08 PM	
Client Contact Name:	Amanda Davis	API #:		
Client Contact Phone #:	(575) 748-0176			
Unique Project ID	-Todd 13 Battery	Project Owner:	Amanda Davis	
Project Reference #	11/05/2019 - 6bbls PW	Project Manager:	Natalie Gordon	
		Summary of	Fimes	
Arrived at Site	6/17/2020 12:45 PM			
Departed Site	6/17/2020 2:44 PM			

Field Notes

9:14 Resamples collected for BS20-01. BS20-02 sample point added to sample schematic due to excavation being approximately 400 square feet. Wall sample (WS20-01) collected.

Next Steps & Recommendations

1 Submit confirmation samples for laboratory analysis.

2 Complete closure report.



Daily Site Visit Signature

Inspector: Kevin Smith

Signature: MM DM

Run on 6/19/2020 5:08 PM UTC

•

. Released to Imaging: 2/1/2021 11:52:17 AM

Received by OCD: 10/7/2020(89180157AMM

Spill Resp	onse and	Sampling	7				v	ERTE
Client:		Divor			Initial Spill Information - R	ecord on First		
Date:		10/26	126	ng dina ng mga ng m	Spill Date:		c wrate	NOTARI MANAGAMINI MANAGAMINI MANAGAMINI MANA
Site Name:		Toda	1	Battery	Spill Volume:		*****	ann tar a thù à tra a thù ann ann tha a thag
Site Location:		needen ook of the second s			Spill Cause:			
Project Owner:				anna ann an Anna ann an Anna an Anna an Anna ann an Anna ann an Anna Anna an Anna Anna Anna Anna Anna Anna Anna	Spill Product:			
Project Manager					Recovered Spill Volume:			
Project #:					Recovery Method:			
			Field Screening	Sampling				
Sample ID	Depth (ft)	VOC (PID)	PetroFlag TPH	Quantab	Data Collection Lab Analysis	Contraction of the second seco	es) Trimble	Marked on
SS/TP/BH - Year -			(ppm)	(High/Low) + or -		Picture	Coordinates	
Number Ex. BH18-01	Ex. '2ft	Ex. 400 ppm	200 ppm	Ex. 'High +	Ex. Hydrocarbon Chloride			
WS2	0-1		48	0.19/21.1				
3	0-1		99	0.08/23.8				
4	0-1		43	12061				
· · · · ·	0 1		1-2	724.6				
WS3.1	0-1		80	0.07/23.9				
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ATTACHMENT 5

Natalie Gordon

From:	Dhugal Hanton <vertexresourcegroupusa@gmail.com></vertexresourcegroupusa@gmail.com>
Sent:	Thursday, October 22, 2020 2:32 PM
То:	Natalie Gordon
Subject:	Fwd: NRM2003154559: Todd 13 Battery - 48-hr Notification of Confirmatory Sampling

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

From: Dhugal Hanton <<u>vertexresourcegroupusa@gmail.com</u>> Date: Thu, Oct 22, 2020 at 2:20 PM Subject: NRM2003154559: Todd 13 Battery - 48-hr Notification of Confirmatory Sampling To: Enviro, OCD, EMNRD <<u>OCD.Enviro@state.nm.us</u>>, CFO_Spill, BLM_NM <<u>blm_nm_cfo_spill@blm.gov</u>>, Kelsey <<u>KWade@blm.gov</u>>, Amos, James A <<u>Jamos@blm.gov</u>>, Eads, Cristina, EMNRD <<u>Cristina.Eads@state.nm.us</u>> Cc: <<u>tom.bynum@dvn.com</u>>, <<u>amanda.davis@dvn.com</u>>, <<u>Lupe.Carrasco@dvn.com</u>>, <<u>wesley.mathews@dvn.com</u>>

All,

Please accept this email as 48-hr notification that Vertex Resource Services Inc. has re-scheduled additional confirmatory sampling to be conducted at Todd 13 Battery for the release that occurred on November 5, 2019.

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

On Monday, October 26, 2020 at approximately 2 p.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

Natalie Gordon Project Manager

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

P 575.725.5001 ext 709 C 505.506.0040 F

www.vertex.ca

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Natalie Gordon

From:	Dhugal Hanton <vertexresourcegroupusa@gmail.com></vertexresourcegroupusa@gmail.com>
Sent:	Tuesday, October 20, 2020 5:41 PM
То:	Natalie Gordon
Subject:	Fwd: [EXT] NRM2003154559: Todd 13 Battery - 48-hr Notification of Confirmatory
	Sampling

------ Forwarded message ------From: Dhugal Hanton <<u>vertexresourcegroupusa@gmail.com</u>> Date: Tue, Oct 20, 2020 at 5:39 PM Subject: Re: [EXT] NRM2003154559: Todd 13 Battery - 48-hr Notification of Confirmatory Sampling To: Enviro, OCD, EMNRD <<u>OCD.Enviro@state.nm.us</u>> Cc: CFO_Spill, BLM_NM <<u>blm_nm_cfo_spill@blm.gov</u>>, Kelsey <<u>KWade@blm.gov</u>>, Amos, James A <<u>Jamos@blm.gov</u>>, tom.bynum@dvn.com <tom.bynum@dvn.com>

All,

Please accept my sincerest apologies. Vertex Resource Services was unable to complete scheduled additional confirmatory sampling at Todd 13 Battery per the 48-hour notification that was submitted on October 15, 2020.

This work will be rescheduled for a later date and appropriate notification re-submitted to all interested parties.

If you have any questions or concerns regarding this issue, please give me a call at 505-506-0040.

Thank you, Natalie

Natalie Gordon Project Manager

Vertex Resource Group Ltd.

213 S. Mesa Street Carlsbad, NM 88220

P 575.725.5001 ext 709 C 505.506.0040 F

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On Thu, Oct 15, 2020 at 4:55 PM Enviro, OCD, EMNRD <<u>OCD.Enviro@state.nm.us</u>> wrote:

Thank you for the sampling notification for NRM2003154559, Todd 13 Battery. If there is any change in the sampling time/date of October 20, 2020 at 9:00 am, please notify the OCD as soon as possible. Please note, if there is no OCD representative on site at the notified time, continue per 19.15.29 NMAC.

Thank you,

Cristina Eads | 505-670-5601

From: Dhugal Hanton <<u>vertexresourcegroupusa@gmail.com</u>>
Sent: Thursday, October 15, 2020 3:58 PM
To: Enviro, OCD, EMNRD <<u>OCD.Enviro@state.nm.us</u>>; Eads, Cristina, EMNRD <<u>Cristina.Eads@state.nm.us</u>>; CFO_Spill, BLM_NM <<u>blm_nm_cfo_spill@blm.gov</u>>; Kelsey <<u>KWade@blm.gov</u>>; Amos, James A <<u>Jamos@blm.gov</u>>
Cc: tom.bynum@dvn.com; amanda.davis@dvn.com; Lupe.Carrasco@dvn.com; wesley.mathews@dvn.com
Subject: [EXT] NRM2003154559: Todd 13 Battery - 48-hr Notification of Confirmatory Sampling

All,

Please accept this email as 48-hr notification that Vertex Resource Services Inc. has scheduled additional confirmatory sampling to be conducted at Todd 13 Battery for the release that occurred on November 5, 2019.

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

On Tuesday, October 20, 2020 at approximately 9 a.m., Kevin Smith of Vertex will be onsite to conduct confirmatory sampling. He can be reached at 575-988-0871. If you need directions to the site, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 505-506-0040.

Thank you,

Natalie

Natalie Gordon Project Manager Vertex Resource Group Ltd. 213 S. Mesa Street Carlsbad, NM 88220

P 575.725.5001 ext 709 C 505.506.0040 F

www.vertex.ca

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Natalie Gordon

From:	Natalie Gordon
Sent:	Tuesday, February 18, 2020 4:40 PM
То:	emnrd-ocd-district1spills@state.nm.us; Mike Bratcher (mike.bratcher@state.nm.us);
	ramona.marcus@state.nm.us; blm_nm_cfo_spill@blm.gov; Wade , Kelsey;
	jamos@blm.gov
Cc:	Bynum, Tom (Contract); Wesley. Mathews@dvn. com (Wesley.Mathews@dvn.com)
Subject:	Todd 13 Battery, DOR: 11/05/2019, Inc. # TBD - 48-hr Notice of Confirmatory Sampling
	(Devon Energy)

All:

Please accept this email as 48-hour notification that Vertex Resource Services has scheduled final confirmatory sampling to be conducted at Todd 13 Battery (Devon Energy) for the release that occurred on November 5, 2019. Incident #: to be assigned.

On Thursday afternoon, February 20, 2020, and Friday morning, February 21, 2020, Monica Peppin of Vertex will be onsite to perform confirmation 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 6

ATTACHMENT 7



November 05, 2020

Natalie Gordon Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (505) 350-1336 FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

OrderNo.: 2010C77

RE: Todd 13 Battery

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/29/2020 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2010C77

Date Reported: 11/5/2020

CLIENT:	Devon Energy		Cl	ient Sample II	D: W	S20-02 0-1						
Project:	Todd 13 Battery		Collection Date: 10/26/2020 2:00:00 PM									
Lab ID:	2010C77-001	Matrix: SOIL	Received Date: 10/29/2020 8:00:00 AM									
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA ME	THOD 300.0: ANIONS					Analyst	: VP					
Chloride		100	60	mg/Kg	20	11/2/2020 9:42:18 PM	56160					
EPA ME	THOD 8015D MOD: GASOLI	NE RANGE				Analyst	DJF					
Gasoline	e Range Organics (GRO)	ND	4.9	mg/Kg	1	10/31/2020 1:52:20 AM	56112					
Surr:	BFB	99.1	70-130	%Rec	1	10/31/2020 1:52:20 AM	56112					
EPA ME	THOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	BRM					
Diesel R	ange Organics (DRO)	ND	9.6	mg/Kg	1	10/29/2020 10:08:05 PI	M 56116					
Motor O	I Range Organics (MRO)	ND	48	mg/Kg	1	10/29/2020 10:08:05 PI	VI 56116					
Surr:	DNOP	94.8	30.4-154	%Rec	1	10/29/2020 10:08:05 PI	M 56116					
EPA ME	THOD 8260B: VOLATILES S	HORT LIST				Analyst	DJF					
Benzene	9	ND	0.025	mg/Kg	1	10/31/2020 1:52:20 AM	56112					
Toluene		ND	0.049	mg/Kg	1	10/31/2020 1:52:20 AM	56112					
Ethylber	izene	ND	0.049	mg/Kg	1	10/31/2020 1:52:20 AM	56112					
Xylenes,	Total	ND	0.099	mg/Kg	1	10/31/2020 1:52:20 AM	56112					
Surr:	1,2-Dichloroethane-d4	89.2	70-130	%Rec	1	10/31/2020 1:52:20 AM	56112					
Surr: 4	4-Bromofluorobenzene	94.4	70-130	%Rec	1	10/31/2020 1:52:20 AM	56112					
Surr:	Dibromofluoromethane	108	70-130	%Rec	1	10/31/2020 1:52:20 AM	56112					
Surr:	Toluene-d8	105	70-130	%Rec	1	10/31/2020 1:52:20 AM	56112					

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

Qualifiers:

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

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 7

Surr: Toluene-d8

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2010C77

Date Reported: 11/5/2020

CLIENT: Devon Energy		Cl	ient Sample II	D: W	S20-03 0-1				
Project: Todd 13 Battery		(Collection Dat	e: 10	/26/2020 2:10:00 PM				
Lab ID: 2010C77-002	Matrix: SOIL	Received Date: 10/29/2020 8:00:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst:	VP			
Chloride	ND	60	mg/Kg	20	11/3/2020 5:34:30 PM	56187			
EPA METHOD 8015D MOD: GAS	OLINE RANGE				Analyst:	DJF			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/31/2020 2:21:04 AM	56112			
Surr: BFB	101	70-130	%Rec	1	10/31/2020 2:21:04 AM	56112			
EPA METHOD 8015M/D: DIESEL	RANGE ORGANICS				Analyst:	BRM			
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	10/29/2020 10:31:34 PN	1 56116			
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/29/2020 10:31:34 PN	1 56116			
Surr: DNOP	94.7	30.4-154	%Rec	1	10/29/2020 10:31:34 PN	1 56116			
EPA METHOD 8260B: VOLATILE	S SHORT LIST				Analyst:	DJF			
Benzene	ND	0.025	mg/Kg	1	10/31/2020 2:21:04 AM	56112			
Toluene	ND	0.049	mg/Kg	1	10/31/2020 2:21:04 AM	56112			
Ethylbenzene	ND	0.049	mg/Kg	1	10/31/2020 2:21:04 AM	56112			
Xylenes, Total	ND	0.098	mg/Kg	1	10/31/2020 2:21:04 AM	56112			
Surr: 1,2-Dichloroethane-d4	93.1	70-130	%Rec	1	10/31/2020 2:21:04 AM	56112			
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	10/31/2020 2:21:04 AM	56112			
Surr: Dibromofluoromethane	107	70-130	%Rec	1	10/31/2020 2:21:04 AM	56112			

103

70-130

%Rec

1

10/31/2020 2:21:04 AM 56112

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

Qualifiers:

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

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 7

CLIENT: Devon Energy

Project: Todd 13 Battery

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2010C77

Date Reported: 11/5/2020

Client Sample ID: WS20-04 0-1 Collection Date: 10/26/2020 2:20:00 PM **Deceived Dete:** 10/20/2020 8:00:00 AM

Lab ID: 2010C77-003	Matrix: SOIL		Received Dat	ved Date: 10/29/2020 8:00:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst:	VP			
Chloride	ND	60	mg/Kg	20	11/3/2020 5:46:54 PM	56187			
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst	DJF			
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/31/2020 2:49:46 AM	56112			
Surr: BFB	97.6	70-130	%Rec	1	10/31/2020 2:49:46 AM	56112			
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANICS				Analyst	BRM			
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	10/30/2020 2:50:19 PM	56116			
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/30/2020 2:50:19 PM	56116			
Surr: DNOP	90.8	30.4-154	%Rec	1	10/30/2020 2:50:19 PM	56116			
EPA METHOD 8260B: VOLATILES SHO	RT LIST				Analyst	DJF			
Benzene	ND	0.024	mg/Kg	1	10/31/2020 2:49:46 AM	56112			
Toluene	ND	0.048	mg/Kg	1	10/31/2020 2:49:46 AM	56112			
Ethylbenzene	ND	0.048	mg/Kg	1	10/31/2020 2:49:46 AM	56112			
Xylenes, Total	ND	0.097	mg/Kg	1	10/31/2020 2:49:46 AM	56112			
Surr: 1,2-Dichloroethane-d4	93.5	70-130	%Rec	1	10/31/2020 2:49:46 AM	56112			
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	10/31/2020 2:49:46 AM	56112			
Surr: Dibromofluoromethane	110	70-130	%Rec	1	10/31/2020 2:49:46 AM	56112			
Surr: Toluene-d8	103	70-130	%Rec	1	10/31/2020 2:49:46 AM	56112			

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

Qualifiers:

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Page 3 of 7

Client:	Devon E	nergy									
Project:	Todd 13	Battery									
Sample ID: N	/B-56160	SampTyp	be: MB	BLK	Tes	tCode: E	PA Method	300.0: Anions	5		
Client ID: F	PBS	Batch I	D: 56 1	160	F	RunNo: 7	3082				
Prep Date:	11/2/2020	Analysis Dat	te: 11	/2/2020	S	SeqNo: 2	569572	Units: mg/K	g		
Analyte Chloride		Result ND	PQL 1.5	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: L	CS-56160	SampTyp	be: LC	S	Tes	tCode: E	PA Method	300.0: Anions	6		
Client ID: L	CSS	Batch I	D: 561	160	F	RunNo: 7	3082				
Prep Date:	11/2/2020	Analysis Dat	te: 11	/2/2020	S	SeqNo: 2	569573	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	91.1	90	110			
Sample ID: N	/IB-56187	SampTyp	be: MB	BLK	Tes	tCode: E	PA Method	300.0: Anions	6		
Client ID: F	PBS	Batch I	D: 561	187	F	RunNo: 7	3106				
Prep Date:	11/3/2020	Analysis Dat	te: 11	/3/2020	S	SeqNo: 2	570815	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: L	CS-56187	SampTyp	be: LC	S	Tes	tCode: E	PA Method	300.0: Anions	3		
Client ID: L	CSS	Batch I	D: 561	187	F	RunNo: 7	3106				
Prep Date:	11/3/2020	Analysis Dat	te: 11	/3/2020	S	SeqNo: 2	570816	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	90.3	90	110			

Qualifiers:

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2010C77

05-Nov-20

Client:DevonProject:Todd 1	Energy 3 Battery									
Sample ID: MB-56116 SampType: MBLK				TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS Batch ID: 56116		F	unNo: 7	3025						
Prep Date: 10/29/2020	Analysis [Date: 10)/29/2020	S	eqNo: 2	567193	Units: mg/K	g		
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	9.0		10.00		90.2	30.4	154			
Sample ID: LCS-56116	Samp	Гуре: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batc	h ID: 56	116	F	unNo: 7	3025				
Prep Date: 10/29/2020	Analysis [Date: 10)/29/2020	S	eqNo: 2	567194	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	84.8	70	130			
Surr: DNOP	4.6		5.000		92.3	30.4	154			

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2010C77

05-Nov-20

Devon Energy

Todd 13 Battery

Client:

Project:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Sample ID: mb-56112	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batc	h ID: 561	112	F	RunNo: 73049					
Prep Date: 10/29/2020	Analysis I	Date: 10	/30/2020	S	SeqNo: 2	567865	Units: mg/K	g		
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	0.42		0.5000		83.8	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		105	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		96.5	70	130			
Surr: Toluene-d8	0.51		0.5000		103	70	130			
Sample ID: Ics-56112	Samp	Type: LC	S4	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Sample ID: Ics-56112 Client ID: BatchQC		√ype: LC h ID: 56 1			tCode: El		8260B: Volat	iles Short	List	
-		h ID: 561	112	F		3049	8260B: Volat Units: mg/K		List	
Client ID: BatchQC	Batc	h ID: 561	112 //30/2020	F	RunNo: 7 :	3049			List RPDLimit	Qual
Client ID: BatchQC Prep Date: 10/29/2020	Batc Analysis [h ID: 56 ⁴ Date: 10	112 //30/2020	F S	RunNo: 7 : SeqNo: 2 :	3049 567866	Units: mg/K	g		Qual
Client ID: BatchQC Prep Date: 10/29/2020 Analyte	Batc Analysis I Result	h ID: 561 Date: 10 PQL	112 //30/2020 SPK value	R S SPK Ref Val	RunNo: 7 : SeqNo: 2 : %REC	3049 567866 LowLimit	Units: mg/K HighLimit	g		Qual
Client ID: BatchQC Prep Date: 10/29/2020 Analyte Benzene	Batc Analysis I Result 0.89	h ID: 56 ⁴ Date: 10 PQL 0.025	112 /30/2020 SPK value 1.000	F S SPK Ref Val 0	RunNo: 7 : SeqNo: 2 : <u>%REC</u> 89.4	3049 567866 LowLimit 80	Units: mg/K HighLimit 120	g		Qual
Client ID: BatchQC Prep Date: 10/29/2020 Analyte Benzene Toluene	Analysis I Result 0.89 1.0	h ID: 56 ⁴ Date: 10 PQL 0.025 0.050	112 /30/2020 SPK value 1.000 1.000	F S SPK Ref Val 0 0	RunNo: 73 SeqNo: 29 %REC 89.4 103	3049 567866 LowLimit 80 80	Units: mg/K HighLimit 120 120	g		Qual
Client ID: BatchQC Prep Date: 10/29/2020 Analyte Benzene Toluene Ethylbenzene	Analysis I Result 0.89 1.0 1.0	h ID: 56' Date: 10 PQL 0.025 0.050 0.050	112 /30/2020 SPK value 1.000 1.000 1.000	F S SPK Ref Val 0 0 0	RunNo: 7 : SeqNo: 2 : <u>%REC</u> 89.4 103 99.5	3049 567866 LowLimit 80 80 80	Units: mg/K HighLimit 120 120 120	g		Qual
Client ID: BatchQC Prep Date: 10/29/2020 Analyte Benzene Toluene Ethylbenzene Xylenes, Total	Analysis I Result 0.89 1.0 1.0 3.2	h ID: 56' Date: 10 PQL 0.025 0.050 0.050	112 30/2020 SPK value 1.000 1.000 1.000 3.000	F S SPK Ref Val 0 0 0	RunNo: 7: SeqNo: 29 <u>%REC</u> 89.4 103 99.5 108	3049 567866 LowLimit 80 80 80 80 80	Units: mg/K HighLimit 120 120 120 120	g		Qual
Client ID: BatchQC Prep Date: 10/29/2020 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 1,2-Dichloroethane-d4	Batc Analysis I Result 0.89 1.0 1.0 3.2 0.44	h ID: 56' Date: 10 PQL 0.025 0.050 0.050	112 30/30/2020 SPK value 1.000 1.000 3.000 0.5000	F S SPK Ref Val 0 0 0	RunNo: 73 SeqNo: 29 %REC 89.4 103 99.5 108 89.0	3049 567866 LowLimit 80 80 80 80 70	Units: mg/K HighLimit 120 120 120 120 120 130	g		Qual

Qualifiers:

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WO#: 2010C77

05-Nov-20

	n Energy 13 Battery							
110,000	15 Dattery							
Sample ID: mb-56112	Tes	TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: PBS Batch ID: 56112		F	RunNo: 73049					
Prep Date: 10/29/2020	Analysis Date: 10/30/2	0 20 §	SeqNo: 2567890	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	520	500.0	103 70	130				
Sample ID: Ics-56112	SampType: LCS	Tes	tCode: EPA Method	8015D Mod: Gasoline	Range			
Client ID: LCSS	Batch ID: 56112	F	RunNo: 73049					
Prep Date: 10/29/2020	Analysis Date: 10/30/2	0 20 S	SeqNo: 2567891	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	87.6 70	130				
Surr: BFB	520	500.0	104 70	130				

Qualifiers:

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- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

2010C77

05-Nov-20

Page	94	0	f 128

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ENVIRONMENTAL ANALYSIS LABORATORY Web			vironmental A Albuq 5-345-3975 F e: clients.hall	4901 uerqi AX: 1	Hawkins NE ie, NM 87109 505-345-4107		mple Log-In Cl	Page neck List
Client Name: Devon En	ergy	Work Orde	er Number:	2010	C77		RcptNo:	1
Received By: Emily Me	ocho	10/29/2020	8:00:00 AM					
Completed By: Emily Me	ocho	10/29/2020	9:10:26 AM					
Reviewed By: DAD	0/29/20							
Chain of Custody								
1. Is Chain of Custody com	plete?			Yes	\checkmark	No 🗌	Not Present	
2. How was the sample del	ivered?		9	Couri	er			
Log In								
3. Was an attempt made to	cool the samples?			Yes	V	No 🗌	NA 🗔	
4. Were all samples receive	d at a temperature	of >0° C to 6.0	D°C ,	Yes	~	No 🗌		
5. Sample(s) in proper cont	ainer(s)?			Yes	v	No 🗌		
6. Sufficient sample volume	for indicated test(s	5)?	1	(es	~	No 🗆		
7. Are samples (except VOA	and ONG) proper	ly preserved?	3	/es	v	No 🗌		
8. Was preservative added	o bottles?)	les		No 🗹	NA 🗌	
9. Received at least 1 vial w	ith headspace <1/4	1" for AQ VOA?	· · · ·	res	3	No 🗌	NA 🗹	TO
10. Were any sample contair	ners received broke	en?	,	Yes		No 🔽		ala
					2	_	# of preserved bottles checked	10/29
11. Does paperwork match be (Note discrepancies on cl)	/es	\checkmark	No 🗌	for pH:	12 unless noted
12. Are matrices correctly ide		Custody?	1	/es	~	No 🗌	Adjusted?	
13. Is it clear what analyses v				/es		No 🗌		
14. Were all holding times ab (If no, notify customer for	le to be met?		Y	les	v	No 🗌	Checked by:	
Special Handling (if ap								
15. Was client notified of all	discrepancies with	this order?		Yes		No 🗌	NA 🔽	
Person Notified:	F		Date:					
By Whom:	[Via:	eMa	il 🗌 Phon	e 🔲 Fax	k 📋 In Person	
Regarding:	1							
Client Instructions:								
16. Additional remarks:								
17. <u>Cooler Information</u> Cooler No Temp °C			al No Se	al Da	te Sig	ned By		
1 2.0	Good Ye	S						

Page 1 of 1 .

.>	OCD: 10		0208		15 AMA											Page 95	_)
HALL ENVIRONMENTAL	www.hallenvironmental.com	- Albuquerque, NM 87109	Analysis Request	(1u		(AC	-۸c ((AO imə	CUYF, B 8260 (V 70tal Co	è-	>	/			Notall'	H. aubay tou
ALL I	w.halle	NE - I	5975 An				S	lete	∍M 8	в АЯЭЯ		,	,			- 2.	2/10
ANA	**	4901 Hawkins NE	1 el. 505-345-39/5	-	SMIS	10.00	_			M) 803 d sHA9		_			-	, The second sec	
		1 Hav	-GUG .		PCB's			-		9081 Pe				1			VP
		490	le	(0	NM \ O	אם /	05	19)	19D	08:H9T	5	1	1	12		P.11	0 MO
				()	.208) s	BMT	1	38.	τM	BTEX	2	1	1			Remark	á
Bush Day	Battery		11		Gur do n		ON D		2.2-0.2=2-0 (°C)	tive HEAL No. 2010	100	002	003			Date Time Ioフタオン Iろろひ Date Time	10/29/20 8:00
me	61		14100	ger:		970	A Yes	2	(including CF);	Preservative Type	111	111	166			Via: Via:	Contract
I urn-Around I	Project Name:	Project #:	206-	Project Manager:	Noteli	Sampler:	On Ice:	# of Coolers:	Cooler Temp(including CF);	Container Type and #		70 h	20 h			Received by Received by	S.M. P
Chain-of-Custody Record :: Dเมอก En เกลิน	-				Level 4 (Full Validation)	pliance				Sample Name	W530-02 0-1	2530-03 0-1	1-0 ho.0esm			by:	
of-Cu						□ Az Compliance	□ Other			Matrix S	20:1	-	210:1 r			Relinquished by:	
Cluch	A Davis Mailing Address:	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	#	r Fax#:	QA/QC Package:			(Type)_		Time	3:00	J.10	J'. 20			Time: (330 Time:	
Client:	A (Mailing		Phone #:	email or Fax#:	QA/QC Packa	Accreditation:	D NELAC	□ EDD (Type)		Date	10/26	10/26	10/01			Date: 10 m/w Date:	



February 06, 2020

Natalie Gordon Vertex Resource Group Ltd. 213 S. Mesa St Carlsbad, NM 88220 TEL: FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 2002001

RE: Todd 13 Battery

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 2 sample(s) on 2/1/2020 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project: Todd 13 Battery

CLIENT: Vertex Resource Group Ltd.

Analytical Report Lab Order 2002001

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/6/2020 Client Sample ID: SS20-01 0' Collection Date: 1/30/2020 3:05:00 PM

Lab ID: 2002001-001	Matrix: SOIL	R	eceive	ed Date:	2/1/20	20 10:00:00 AM
Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS					Analyst: BRM
Diesel Range Organics (DRO)	2900	490		mg/Kg	50	2/5/2020 10:48:36 AM
Motor Oil Range Organics (MRO)	4200	2500		mg/Kg	50	2/5/2020 10:48:36 AM
Surr: DNOP	0	55.1-146	S	%Rec	50	2/5/2020 10:48:36 AM
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/5/2020 12:42:11 AM
Surr: BFB	69.7	66.6-105		%Rec	1	2/5/2020 12:42:11 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/5/2020 4:51:24 PM
Toluene	ND	0.047		mg/Kg	1	2/5/2020 4:51:24 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/5/2020 4:51:24 PM
Xylenes, Total	ND	0.095		mg/Kg	1	2/5/2020 4:51:24 PM
Surr: 4-Bromofluorobenzene	88.1	80-120		%Rec	1	2/5/2020 4:51:24 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	720	60		mg/Kg	20	2/5/2020 2:40:44 PM

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

Qualifiers:

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

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
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Project:

Chloride

CLIENT: Vertex Resource Group Ltd.

Todd 13 Battery

Analytical Report Lab Order 2002001

2/5/2020 3:17:57 PM

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/6/2020 Client Sample ID: BH20-03 5' Collection Date: 1/30/2020 5:15:00 PM Pageived Date: 2/1/2020 10:00:00 AM

Lab ID: 2002001-002 Matrix: SOIL Received Date: 2/1/2020 10:00:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) 170 9.4 mg/Kg 1 2/5/2020 11:10:21 AM Motor Oil Range Organics (MRO) 240 47 mg/Kg 1 2/5/2020 11:10:21 AM Surr: DNOP 109 55.1-146 %Rec 1 2/5/2020 11:10:21 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 2/5/2020 1:05:11 AM 4.8 mg/Kg 1 Surr: BFB 72.8 66.6-105 %Rec 1 2/5/2020 1:05:11 AM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 2/5/2020 1:05:11 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 2/5/2020 1:05:11 AM Ethylbenzene ND 0.048 mg/Kg 1 2/5/2020 1:05:11 AM Xylenes, Total ND 0.095 mg/Kg 1 2/5/2020 1:05:11 AM Surr: 4-Bromofluorobenzene 82.8 80-120 %Rec 1 2/5/2020 1:05:11 AM **EPA METHOD 300.0: ANIONS** Analyst: MRA

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
 Sample Diluted Due to Matrix
- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
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- 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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Client: Project:	Vertex Resource Todd 13 Battery	Group Lt	d.							
Sample ID: MB-5)258 San	npType: m	blk	Tes	tCode: EP	A Method	300.0: Anion	s		
Client ID: PBS	Ва	atch ID: 50	258	F	RunNo: 66	340				
Prep Date: 2/4/2	2020 Analysi	s Date: 2	/5/2020	S	SeqNo: 22	78649	Units: mg/K	g		
Analyte	Resul	t PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	NE	1.5								
Sample ID: LCS-5	50258 San	npType: Ic	s	Tes	tCode: EP	A Method	300.0: Anion	s		
Client ID: LCSS	Ba	atch ID: 50	258	F	RunNo: 66	340				
Prep Date: 2/4/2	2020 Analysi	s Date: 2	/5/2020	S	SeqNo: 22	78650	Units: mg/K	g		
Analyte	Resul	t PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.8	90	110			

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2002001

06-Feb-20

	Resource Group Ltd. 3 Battery			
Sample ID: MB-50229	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Orga	inics
Client ID: PBS	Batch ID: 50229	RunNo: 66269		
Prep Date: 2/3/2020	Analysis Date: 2/4/2020	SeqNo: 2276519	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPD	Limit Qual
Diesel Range Organics (DRO)	ND 10			
Motor Oil Range Organics (MRO) Surr: DNOP	ND 50 12 10.00	115 55.1	146	
Sample ID: LCS-50229	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Orga	inics
Client ID: LCSS	Batch ID: 50229	RunNo: 66269		
Prep Date: 2/3/2020	Analysis Date: 2/4/2020	SeqNo: 2276520	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPD	Limit Qual
Diesel Range Organics (DRO)	60 10 50.00	0 119 63.9	124	
Surr: DNOP	5.3 5.000	106 55.1	146	
Sample ID: MB-50216	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Orga	inics
Client ID: PBS	Batch ID: 50216	RunNo: 66269		
Prep Date: 2/3/2020	Analysis Date: 2/4/2020	SeqNo: 2277503	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPD	Limit Qual
Surr: DNOP	11 10.00	113 55.1	146	
Sample ID: LCS-50216	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Orga	inics
Client ID: LCSS	Batch ID: 50216	RunNo: 66269		
Prep Date: 2/3/2020	Analysis Date: 2/4/2020	SeqNo: 2277504	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPD	Limit Qual
Surr: DNOP	5.2 5.000	104 55.1	146	

Qualifiers:

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2002001

06-Feb-20

Client: Project:	Vertex Resource O Todd 13 Battery	Group Lt	d.							
Sample ID: mb-50	185 Samp	Type: M I	BLK	Test	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Bat	ch ID: 50	185	R	lunNo: 66	6278				
Prep Date: 1/31/2	2020 Analysis	Date: 2	/4/2020	S	eqNo: 22	277391	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	790		1000		79.4	66.6	105			
Sample ID: Ics-50	185 Samp	Type: LC	S	Test	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Bat	ch ID: 50	185	R	unNo: 66	6278				
Prep Date: 1/31/2	2020 Analysis	Date: 2	/4/2020	S	eqNo: 22	277393	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	910		1000		91.2	66.6	105			
Sample ID: mb-50	219 Samp	Type: M	BLK	Test	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Sample ID: mb-50 Client ID: PBS	-	oType: M I ch ID: 50			tCode: EF		8015D: Gaso	line Rang	e	
•	Bat	<i>.</i>	219	R		6278	8015D: Gaso Units: mg/K		e	
Client ID: PBS	Bat	ch ID: 50)219 /5/2020	R	tunNo: 66 SeqNo: 22	5278 277403			e RPDLimit	Qual
Client ID: PBS Prep Date: 2/3/20	Bat 020 Analysis Result	ch ID: 50 Date: 2	219 /5/2020 SPK value	R	tunNo: 66 SeqNo: 22	5278 277403	Units: mg/K	g		Qual
Client ID: PBS Prep Date: 2/3/2 Analyte Gasoline Range Organi	Bat 020 Analysis Result cs (GRO) ND 750	ch ID: 50 Date: 2 PQL	219 /5/2020 SPK value 1000	R S SPK Ref Val	2unNo: 66 SeqNo: 22 %REC 75.4	277403 LowLimit 66.6	Units: mg/K HighLimit	g %RPD	RPDLimit	Qual
Client ID: PBS Prep Date: 2/3/2 Analyte Gasoline Range Organic Surr: BFB	Bat 020 Analysis Result Result cs (GR0) ND 750 750 219 Sample	ch ID: 50 Date: 2 PQL 5.0	219 /5/2020 SPK value 1000	R SPK Ref Val Test	2unNo: 66 SeqNo: 22 %REC 75.4	2778 277403 LowLimit 66.6 PA Method	Units: mg/K HighLimit 105	g %RPD	RPDLimit	Qual
Client ID: PBS Prep Date: 2/3/20 Analyte Gasoline Range Organi Surr: BFB Sample ID: Ics-50	Bat 020 Analysis Result cs (GRO) ND 750 219 Samp Bat	ch ID: 50 Date: 2 PQL 5.0	219 /5/2020 SPK value 1000 CS 219	R SPK Ref Val Test R	2unNo: 66 GeqNo: 22 %REC 75.4	5278 277403 LowLimit 66.6 PA Method 5278	Units: mg/K HighLimit 105	g %RPD line Rang	RPDLimit	Qual
Client ID: PBS Prep Date: 2/3/20 Analyte Gasoline Range Organic Surr: BFB Sample ID: Ics-50 Client ID: LCSS	Bat 020 Analysis Result cs (GRO) ND 750 219 Samp Bat	ch ID: 50 Date: 2 , PQL 5.0 DType: LC ch ID: 50	219 /5/2020 SPK value 1000 CS 219 /4/2020	R SPK Ref Val Test R	2unNo: 66 SeqNo: 22 %REC 75.4 Code: EF SunNo: 66 SeqNo: 22	5278 277403 LowLimit 66.6 PA Method 5278	Units: mg/K HighLimit 105 8015D: Gaso	g %RPD line Rang	RPDLimit	Qual

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06-Feb-20

Client: Vertex R	esource Group Lt	d.							
Project: Todd 13	Battery								
Sample ID: mb-50185	SampType: M I	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch ID: 50	185	R	RunNo: 6	6278				
Prep Date: 1/31/2020	Analysis Date: 2	4/2020	S	SeqNo: 2	277424	Units: %Red	;		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.87	1.000		86.5	80	120			
Sample ID: Ics-50185	SampType: LC	s	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch ID: 50	185	R	RunNo: 6	6278				
Prep Date: 1/31/2020	Analysis Date: 2	4/2020	S	SeqNo: 2	277425	Units: %Red	;		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.90	1.000		89.7	80	120			
Sample ID: mb-50219	SampType: M	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch ID: 50	219	R	RunNo: 6	6278				
Prep Date: 2/3/2020	Analysis Date: 2	/5/2020	S	SeqNo: 2	277435	Units: mg/K	g		
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 Surr: 4-Bromofluorobenzene	ND 0.10 0.85	1.000		85.3	80	120			
Sample ID: Ics-50219	SampType: LC					8021B: Volat	iles		
Client ID: LCSS	Batch ID: 50			RunNo: 60					
Prep Date: 2/3/2020	Analysis Date: 2	4/2020	5	SeqNo: 22	277436	Units: mg/K	g		
Analyte	Result PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93 0.025	1.000	0	92.7	80	120			
Toluene Ethylbenzene	0.95 0.050 0.95 0.050	1.000 1.000	0 0	95.4 94.8	80 80	120 120			
Xylenes, Total	0.95 0.050 2.9 0.10	3.000	0	94.0 96.2	80 80	120			
Surr: 4-Bromofluorobenzene	0.92	1.000	0	91.9	80	120			
Sample ID: 2002001-001ams	SampType: M	S	Tes	tCode: EF	PA Method	8021B: Volat	iles		
			_	RunNo: 6	2070				
Client ID: SS20-01 0'	Batch ID: 50	219	R		0210				
Client ID: SS20-01 0' Prep Date: 2/3/2020	Batch ID: 50 Analysis Date: 2			SeqNo: 2		Units: mg/K	g		
		/5/2020				Units: mg/K HighLimit	g %RPD	RPDLimit	Qual
Prep Date: 2/3/2020	Analysis Date: 2	/5/2020	S	SeqNo: 22	277438	•	•	RPDLimit	Qual
Prep Date: 2/3/2020 Analyte Benzene Toluene	Analysis Date: 2 Result PQL 0.83 0.024 0.85 0.047	/5/2020 SPK value	SPK Ref Val	SeqNo: 22 %REC 86.1 88.0	277438 LowLimit 78.5 75.7	HighLimit 119 123	•	RPDLimit	Qual
Prep Date: 2/3/2020 Analyte Benzene	Analysis Date: 2 Result PQL 0.83 0.024	/5/2020 SPK value 0.9479	SPK Ref Val 0.01514	SeqNo: 22 %REC 86.1	277438 LowLimit 78.5	HighLimit 119	•	RPDLimit	Qual

Qualifiers:

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- D Sample Diluted Due to Matrix
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ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

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- Analyte detected in the associated Method Blank в
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- Р Sample pH Not In Range

RL Reporting Limit

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06-Feb-20

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Client: Vertex	Resource G	roup Lto	1.							
Project: Todd	13 Battery									
Sample ID: 2002001-001an	ns Samp	Туре: МS	6	Test	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID: SS20-01 0'	Batc	h ID: 50 2	219	R	unNo: 6	6278				
Prep Date: 2/3/2020	Analysis [Date: 2/	5/2020	S	eqNo: 2	277438	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.79		0.9479		83.2	80	120			
Sample ID: 2002001-001an	nsd Samp	Type: MS	SD	Test	tCode: EF	PA Method	8021B: Volat	tiles		
Sample ID: 2002001-001an Client ID: SS20-01 0'		Type: MS h ID: 50 2			tCode: EF		8021B: Volat	tiles		
		h ID: 50	219	R		6278	8021B: Volat Units: mg/k			
Client ID: SS20-01 0'	Batc	h ID: 50	219 5/2020	R	unNo: 6	6278			RPDLimit	Qual
Client ID: SS20-01 0' Prep Date: 2/3/2020	Batc Analysis [h ID: 50 : Date: 2/	219 5/2020	R	tunNo: 66 GeqNo: 22	6278 277439	Units: mg/k	٢g	RPDLimit 20	Qual
Client ID: SS20-01 0' Prep Date: 2/3/2020 Analyte	Batc Analysis I Result	h ID: 50 Date: 2/ PQL	219 5/2020 SPK value	R S SPK Ref Val	2unNo: 60 6eqNo: 22 %REC	6278 277439 LowLimit	Units: mg/k HighLimit	(g %RPD		Qual
Client ID: SS20-01 0' Prep Date: 2/3/2020 Analyte Benzene	Batc Analysis I Result 0.86	h ID: 50 Date: 2/ PQL 0.025	219 5/2020 SPK value 0.9814	R S SPK Ref Val 0.01514	2unNo: 6 6eqNo: 22 %REC 86.3	6278 277439 LowLimit 78.5	Units: mg/k HighLimit 119	(g <u>%RPD</u> 3.73	20	Qual
Client ID: SS20-01 0' Prep Date: 2/3/2020 Analyte Benzene Toluene	Batc Analysis I Result 0.86 0.89	h ID: 50 Date: 2/ PQL 0.025 0.049	219 5/2020 SPK value 0.9814 0.9814	R S SPK Ref Val 0.01514 0.01731	RunNo: 66 GeqNo: 22 %REC 86.3 89.0	6278 277439 LowLimit 78.5 75.7	Units: mg/K HighLimit 119 123	(g %RPD 3.73 4.57	20 20	Qual

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- J Analyte detected below quantitation limits
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2002001

06-Feb-20

ANALYSIS	Hall Environmental . Albu TEL: 505-345-3975 Website: www.hai	490 querq FAX:	1 Hawki ue, NM a 505-345	ns NE 87109 -4107	Sam	Page 104 o
Client Name: VERTEX CARLSBAD	Work Order Number:	2002	2001			RcptNo: 1
Received By: Erin Melendrez 2/	1/2020 10:00:00 AM			UL.	NA NA	5
Completed By: Erin Melendrez 2/ Reviewed By: YG 2/3/25	1/2020 10:43:12 AM			M.	nz	7
Chain of Custody						
1. Is Chain of Custody sufficiently complete?		Yes		No		Not Present
2. How was the sample delivered?		Cou	ier			
Log In						
3. Was an attempt made to cool the samples?		Yes	~	No		
4. Were all samples received at a temperature of >	>0° C to 6.0°C	Yes		No		
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 pro	eserved?	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		# of preserved
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No		bottles checked for pH: (<2 or ≥12 unless noted)
12. Are matrices correctly identified on Chain of Cust	tody?	Yes	\checkmark	No		Adjusted?
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	\checkmark	No		checked by: JP-+ 2/3/2
Special Handling (if applicable)					C	
15. Was client notified of all discrepancies with this	order?	Yes		No		NA 🗹
Person Notified: By Whom: Regarding:	Date: T] eMa	ail 🗌	Phone 🗌] Fax	In Person
Client Instructions:						
16. Additional remarks:						· · · · · · · · · · · · · · · · · · ·
17. <u>Cooler Information</u> Cooler No Temp °C Condition Seal I 1 3.6 Good Not Pre	CONTRACTOR AND A CONTRACTOR AND A CONTRACT	eal D	ate	Signed	Ву	

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A Standard Rush A Standard Project Name: 7 Standard Project Name: 7 Standard Project Name: 7 Standard Project Name: 7 Standard Project Name: 8 Standard Project Namager: 8 Standard Project Name: 8 Standard Project Name: 8 Standard Project Name: 8 Standard	Chain-of-Custody Record	Turn-Around Time:	
Project Name: Project Name: F14 Tod & 13 Battery 16d4 13 Battery 11 16d4 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 <		C Rush	.>
H. L. Propertie: All L Elociduo All L Elociduo All L Elociduo 205E - OO141 - Oo1 All Dordenter 205E - OO141 - Oo1 All Dordenter 205E - OO141 - Oo1 All Dordenter 20000100(6R0 / DR0/MRS) All Dordenter 2000000000000000000000000000000000000	-	13 Bat	allenvironmental.com
Libration DOE - OOIH - OOI Libration Notruit Cooling Notruit Cooling Notruit Cooling Notruit Cooling Notruit Cooling Sampler: DOE - OOIH - OOI Notruit Notruit Cooling Sampler: DOE - OOIH - OOI Received (Full Validation) Notruit Cooling Sampler: DOE - OOIH - OOI Received (Full Validation) Notruit Cooling Sampler: DOE - OOIH - OOI Received (Full Validation) Notruit Cooling Might Name Onition Preservative H = Not Note Note Note Note Note Note Note	7.12		- Albuquerque, NM 87109
Project Manager: Project Manager: No.2t.Lit. Elord on Diffice No.2t.Lit. Elord on Sampler: No.2t.Lit. Elord on Diffice No.2t.Lit. Elord on Diffice Sampler: Sampler: No.2t.Lit. Elord on Diffice No.2t.Lit. Sampler: No.2t.Lit. Elord on Diffice No.2t.Lit. Sampler: No.2t.Lit. No.2t.Lit. Sampler: Sampler: No.2t.Lit. No.2t.Lit. Sampler: Sampler: No.2t.Lit. No.2t.Lit. Sampler: Sampler: No.2t.Lit. No.2t.Lit. Sampler: Solatistic No.2t.Lit. No.2t.Lit. Sampler: Solatistic No.2t.Lit. No.2t.Lit. Sampler: Solatistic </td <td>12</td> <td>- 14100-</td> <td>505-345-39/5 Fax 505-345-4107 Analysis Request</td>	12	- 14100-	505-345-39/5 Fax 505-345-4107 Analysis Request
Market Market<	e Garden	er:	() () () ()
Omiliano Sample: Sample: Sample: Sample: 0nice: X cs 0nice: X cs No 0nice: X cs No No No 100 No No No No 101 No No No No 102 No No No No 102 No No No No 103 No No No No 103 No No No No 103 No No No 103 No N	1	Natally Gordon	PCB's PO₄, S SIMS PO₄, S
Million Million Million SS220-01 SS220-01 O Million These varies SS220-01 O Million SS20-01 SS20-01 O SS20-01 O<		: 85 4 vor	2) / DK 8082 9,4.1) 1022, 102, 10
Cooler Templeadurance: Cooler Templeadurance: Cooler Templeadurance: Sample Name Container Preservative Type and # Type and # Type and # <tr< td=""><td></td><td>olers: </td><td>(GR(103) 103, 103, 133</td></tr<>		olers:	(GR(103) 103, 103, 133
Sample Name Tontainer Sample Name Type and # Type and # Type SSZCo-0101 U.C. SSZCo-0101 <		(including CF): 3, 9-1.3(CF)= (15D(estic by 83 3r, <i>N</i> e 3r, <i>N</i> e 3r, <i>N</i> e
5520-01 01 402 402 402 40 40 40 40 40 40 40 40 40 40 40 40 40	Sample Name	Preservative 2M/2/N/	08:H91 2081 P 2081 P 20
BHZ0-03 S' 402 i.e012 VV VV VV VV VV VV VVV VVVVVVVVVVVVVV	5520-0101		3 3 1 1
Received by Via: Date Time Remarks:	BHZ0-03 5'	- 2) -	>
Received by Via. Pate Time Remarks: Received by Via. Date Time Remarks: Received by Via. Date Time CC: Notacli CC:			
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Received by Via: CULICIEN Date Time	A	Via: Date T	Netalie Gordon
	4	Via: QUITIEN Date T	



March 04, 2020

Natalie Gordon Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (575) 748-0176 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 2002A66

RE: Todd 13 Battery

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/25/2020 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

CLIENT: Devon Energy

Project: Lab ID:

Todd 13 Battery

2002A66-001

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2002A66

Date Reported: 3/4/2020

Client Sample ID: BS20-01
Collection Date: 2/24/2020 12:25:00 PM
Received Date: 2/25/2020 10:55:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				Analyst: BRM	
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	2/27/2020 6:02:15 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	2/27/2020 6:02:15 PM
Surr: DNOP	76.6	55.1-146	%Rec	1	2/27/2020 6:02:15 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	2/29/2020 12:00:35 AM
Surr: BFB	81.3	66.6-105	%Rec	1	2/29/2020 12:00:35 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	2/29/2020 12:00:35 AM
Toluene	ND	0.046	mg/Kg	1	2/29/2020 12:00:35 AM
Ethylbenzene	ND	0.046	mg/Kg	1	2/29/2020 12:00:35 AM
Xylenes, Total	ND	0.093	mg/Kg	1	2/29/2020 12:00:35 AM
Surr: 4-Bromofluorobenzene	89.3	80-120	%Rec	1	2/29/2020 12:00:35 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	2100	60	mg/Kg	20	3/1/2020 8:24:21 PM

Matrix: SOIL

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

Qualifiers:

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

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 5

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	von Energy dd 13 Battery				
Sample ID: MB-50776	SampType: mblk TestCode: EPA Method 300.0: Anions				
Client ID: PBS	Batch ID: 50776 RunNo: 66941				
Prep Date: 3/1/2020	Analysis Date: 3/1/2020 SeqNo: 2302756 Units: mg/Kg				
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual				
Chloride	ND 1.5				
Sample ID: LCS-50776	SampType: Ics TestCode: EPA Method 300.0: Anions				
Client ID: LCSS	Batch ID: 50776 RunNo: 66941				
Prep Date: 3/1/2020	Analysis Date: 3/1/2020 SeqNo: 2302757 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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

2002A66

04-Mar-20

WO#:

Page 2 of 5
QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:DevonProject:Todd 1	Energy 3 Battery					
Sample ID: LCS-50685	SampType: LCS	Tes	tCode: EPA Method	8015M/D: Diesel Rang	ge Organics	
Client ID: LCSS	Batch ID: 50685	F	RunNo: 66879			
Prep Date: 2/26/2020	Analysis Date: 2/27/202	20 5	SeqNo: 2299849	Units: mg/Kg		
Analyte	Result PQL SPK	value SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57 10	50.00 0	114 70	130		
Surr: DNOP	5.1	5.000	101 55.1	146		
Sample ID: MB-50685	SampType: MBLK	Tes	tCode: EPA Method	8015M/D: Diesel Rang	ge Organics	
Client ID: PBS	Batch ID: 50685	F	RunNo: 66879			
Prep Date: 2/26/2020	Analysis Date: 2/27/202	20 5	SeqNo: 2299850	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	11	10.00	115 55.1	146		
Sample ID: MB-50823	SampType: MBLK	Tes	tCode: EPA Method	8015M/D: Diesel Rang	ge Organics	
Client ID: PBS	Batch ID: 50823	F	RunNo: 66967			
Prep Date: 3/3/2020	Analysis Date: 3/3/2020) :	SeqNo: 2304322	Units: %Rec		
Analyte	Result PQL SPK	value SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit	Qual
Surr: DNOP	8.8	10.00	88.5 55.1	146		
Sample ID: LCS-50823	SampType: LCS	Tes	tCode: EPA Method	8015M/D: Diesel Rang	ge Organics	
Client ID: LCSS	Batch ID: 50823	F	RunNo: 66967			
Prep Date: 3/3/2020	Analysis Date: 3/3/2020) (SeqNo: 2304323	Units: %Rec		
Analyte	Result PQL SPK	value SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit	Qual
Surr: DNOP	4.3	5.000	86.4 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 Quanitative 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

Client:

Page	110	of 128

onmental Analysis Laboratory, Inc.	WO#:	2002A66 04-Mar-20
Devon Energy Todd 13 Battery		

Project: Todd 13	Battery									
Sample ID: mb-50678	SampT	ype: ME	BLK	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch	n ID: 50	678							
Prep Date: 2/25/2020	Analysis D	Date: 2/	28/2020	SeqNo: 2301157			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	830		1000		83.4	66.6	105			
Sample ID: Ics-50678	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: LCSS	Batch	n ID: 50	678	F	RunNo: 6	6892				
Prep Date: 2/25/2020	Analysis D	Date: 2/	28/2020	S	SeqNo: 2	301158	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	86.5	80	120			
Surr: BFB	890		1000		88.9	66.6	105			

Qualifiers:

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

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 5

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: De	evon Energy									
Project: To	dd 13 Battery									
Sample ID: mb-50678	Samp	Type: ME	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batc	h ID: 50	678	F	RunNo: 6	6892				
Prep Date: 2/25/2020	Analysis I	Date: 2/	28/2020	5	SeqNo: 2	301205	Units: mg/K	g		
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-Bromofluorobenzer	ne 0.90		1.000		89.9	80	120			
Sample ID: LCS-50678	Samp ⁻	Type: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: 50	678	F	RunNo: 6	6892				
Prep Date: 2/25/2020	Analysis I	Date: 2/	28/2020	5	SeqNo: 2	301206	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.1	80	120			
Toluene	0.97	0.050	1.000	0	97.1	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.1	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.0	80	120			
Surr: 4-Bromofluorobenzer	ne 0.95		1.000		94.8	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
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- Р Sample pH Not In Range
- RL Reporting Limit

Page 5 of 5

2002A66

04-Mar-20

WO#:

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Wed by OCD: 10/7/2020(8918:157AM1 HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-	ental Analysis Labore 4901 Hawkin Albuquerque, NM 8 3975 FAX: 505-345- w.hallenvironmental	s NE 7109 San 4107	nple Log-In C	Page
Client Name: DEVON ENERGY ENH こにちにひ	Work Order Nun	nber: 2002A66		RcptNo:	1
Received By: JUAN ROJAS	2/25/2020 10:55:0	0 AM			
Completed By: Erin Melendrez Reviewed By: MA 03/35/3	2/25/2020 1:20:55 ラン	PM	MA	3	
Chain of Custody					
1. Is Chain of Custody sufficiently complete?		Yes 🗹	No 🗌	Not Present	
2. How was the sample delivered?		<u>Courier</u>			
Log In 3. Was an attempt made to cool the samples?		Yes 🗹	No 🗌		
4. Were all samples received at a temperature of	i >0° C to 6.0°C	Yes 🖌	No 🗌		
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" f	for AQ VOA?	Yes	No 🗌	NA 🗹	-
10. Were any sample containers received broken?	>	Yes	No 🗹	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🖌	No 🗌	for pH:	2 (25/ >12 unless noted
12. Are matrices correctly identified on Chain of Cu	ustody?	Yes 🗹	No 🗌	Adjusted?	
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 🗌	Checked by:	
Special Handling (if applicable)					
15. Was client notified of all discrepancies with thi	s order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:	Date): [
By Whom:	Via:	🗌 eMail 🔲 P	hone 🗌 Fax	In Person	
Regarding:	••••••••••••••••••••••••••••••••••••••				
Client Instructions:		· · · · · · · · · · · · · · · · · · ·	·····		
16. Additional remarks:					
17. <u>Cooler Information</u>	nin andre en transformet ander ander	Levin Ten, Charlester of the	ANTINETIC ADJUNCT ANTING		
	l Intact Seal No	Seal Date	Signed By		
1 0.2 Good 2 4.2 Good					

Page 1 of 1

• •	Received by OCD: 10/7/2	2020 8:18:157AM1				Page 113 of 128
	HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109	Fax 505-345-4107 ysis Request nt/Absent)				ンニ スの 8.3 7 6.0
	antal.	Construction of the second sec	8270 (Semi-VOA) Total Coliform (Preser			v notated on the
	ALL ENVIRON NALYSIS LABO www.hallenvironmental.com ins NE - Albuquerque, NM	PO₄, SO₄ 145- PO₄, SO₄ 145- PO₄, SO₄ 145- PO₄, SO₄	(AOV) 0828	·		
	, Albu	PO₄, SO₄	CTYE' BL' NO3' NO5'	\times		Mill be c
	HALL ANAL www.hall kins NE -	3975	RCRA 8 Metals			Remarks: B;11; Qevon CC: Nafalre Cordon possibility. Any sub-contracted data w
		었 SMISO	PAHs by 8310 of 827			Cov Cov
	ANAL ANAL www.h/ 4901 Hawkins NE	DSIMS DCB's DCB's DCB's DCB's	8081 Pesticides/8082 EDB (Method 504.1)			Bill'
	4901		7PH)801505(GRO / DF	\mathbf{X}^{+}		Mate Niks:
				\times		
	Turn-Around Time: S-Jayy X Standard ロ Rush Project Name: Toold 13 Buttery Project #: ハハニーハンパリ		Sampler: On Ice: \Box -Yes: \Box No # of Coolers: 2 - Cooler Tempinetuling CP): $U \cdot \overline{S} = 0$, $ z \circ D \cdot \overline{C} ^2$ Cooler Tempinetuling CP): $U \cdot \overline{S} = 0$, $ z \circ D \cdot \overline{C} ^2$ Container Type and # Type $\overline{ZODTADD}$	402. Jar 126 -001		Time: Relinquished by: Received by: Via: Date Time Remarks: $\beta_1 l_1'$ $\Omega_1 \cup O_1$ $\Omega_2 \oplus \Omega_2$ 15:00 $M_1 M_0 \cap M_0 \cap M_0$ $M_1 \cap M_1$ $M_2 \cap M_1$ $M_1 \cap M_2$ $M_2 \cap M_2$ 15:00 $M_1 M_0 \cap M_0$ $M_1 \cap M_1$ $M_2 \cap M_2$ $M_2 \cap M_2$ $M_1 \cap M_2$ 11me: Relinquished by: $M_1 \cap M_2$ $M_2 \cap M_2$ $M_2 \cap M_2$ $M_2 \cap M_2$ 11me: Relinquished by: $M_1 \cap M_2$ $M_2 \cap M_2$ $M_2 \cap M_2$ $M_2 \cap M_2$ 11me: Relinquished by: $M_2 \cap M_2$ $M_2 \cap M_2$ $M_2 \cap M_2$ $M_2 \cap M_2$ 11me: Relinquished by: $M_2 \cap M_2$ $M_2 \cap M_2$ $M_2 \cap M_2$ $M_2 \cap M_2$ 11me: Relinquished by: $M_2 \cap M_2$ $M_2 \cap M_2$ $M_2 \cap M_2$ $M_2 \cap M_2$ 11me: Relinquished by: $M_2 \cap M_2$ $M_2 \cap M_2$ $M_2 \cap M_2$ $M_2 \cap M_2$ 11me: Relinquished by: $M_2 \cap M_2$ $M_2 \cap M_2$ $M_2 \cap M_2$ $M_2 \cap M_2$ 11me: Relinquished by: $M_2 \cap M_2$ $M_2 \cap M_2$ $M_2 \cap M_2$
	Client: De NON Encryy Mailing Address: อก กิโ	Phone #: のハ チ ₍ し email or Fax#: _{のハ} ト(し QA/QC Package: □ Standard □ Level 4 (Full Validation)	Accreditation: \Box Az Compliance \Box NELAC \Box Other \Box EDD (Type) Date Time Matrix Sample Name	2/24/20 12:25 Soil BS20-01		Date: Time: Relinquished by: A/PH/20 IS:00 Roundon Date: Time: Relinquished by: Date: Time: Relinquished by: Mathew I go Mathew If necessary, samples submitted to Hall Environmental may be subc



June 25, 2020

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

OrderNo.: 2006A28

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

RE: Todd 13 Battery

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/19/2020 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2006A28

Date Reported: 6/25/2020

CLIENT:	Devon Energy		Cl	ient Sample II	D: BS	520-01	
Project: 7	Todd 13 Battery		(Collection Dat	e: 6/1	17/2020 1:31:00 PM	
Lab ID:	2006A28-001	Matrix: SOIL		Received Dat	e: 6 /1	19/2020 9:35:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METH	IOD 300.0: ANIONS					Analys	t: MRA
Chloride		ND	60	mg/Kg	20	6/24/2020 3:52:01 PM	53275
EPA METH	HOD 8015D MOD: GASOL	INE RANGE				Analys	t: DJF
Gasoline F	Range Organics (GRO)	ND	5.0	mg/Kg	1	6/22/2020 3:58:23 AM	53183
Surr: BF	FB	107	70-130	%Rec	1	6/22/2020 3:58:23 AM	53183
EPA METH	HOD 8015M/D: DIESEL R	ANGE ORGANICS				Analys	t: BRM
Diesel Rar	nge Organics (DRO)	ND	9.2	mg/Kg	1	6/21/2020 2:49:08 AM	53187
Motor Oil F	Range Organics (MRO)	ND	46	mg/Kg	1	6/21/2020 2:49:08 AM	53187
Surr: D	NOP	95.8	55.1-146	%Rec	1	6/21/2020 2:49:08 AM	53187
EPA METH	OD 8260B: VOLATILES	SHORT LIST				Analys	t: DJF
Benzene		ND	0.025	mg/Kg	1	6/22/2020 3:58:23 AM	53183
Toluene		ND	0.050	mg/Kg	1	6/22/2020 3:58:23 AM	53183
Ethylbenze	ene	ND	0.050	mg/Kg	1	6/22/2020 3:58:23 AM	53183
Xylenes, T	Total	ND	0.099	mg/Kg	1	6/22/2020 3:58:23 AM	53183
Surr: 1,2	2-Dichloroethane-d4	96.5	70-130	%Rec	1	6/22/2020 3:58:23 AM	53183
Surr: 4-	Bromofluorobenzene	101	70-130	%Rec	1	6/22/2020 3:58:23 AM	53183
Surr: Di	bromofluoromethane	99.3	70-130	%Rec	1	6/22/2020 3:58:23 AM	53183
Surr: To	oluene-d8	98.7	70-130	%Rec	1	6/22/2020 3:58:23 AM	53183

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

Qualifiers:

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

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 7

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2006A28

Date Reported: 6/25/2020

CLIENT:	Devon Energy		Cl	ient Sa	ample II	D: BS	520-02	
Project:	Todd 13 Battery		(Collect	ion Dat	e: 6/1	7/2020 1:48:00 PM	
Lab ID:	2006A28-002	Matrix: SOIL		Recei	ved Dat	e: 6/1	9/2020 9:35:00 AM	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS						Analyst	MRA
Chloride		ND	60		mg/Kg	20	6/24/2020 4:04:22 PM	53275
EPA MET	THOD 8015D MOD: GASOLI	NE RANGE					Analyst	DJF
Gasoline	e Range Organics (GRO)	ND	4.9		mg/Kg	1	6/22/2020 4:27:38 AM	53183
Surr: I	BFB	103	70-130		%Rec	1	6/22/2020 4:27:38 AM	53183
EPA MET	THOD 8015M/D: DIESEL RA	NGE ORGANICS					Analyst	BRM
Diesel R	ange Organics (DRO)	ND	9.6		mg/Kg	1	6/21/2020 2:59:26 AM	53187
Motor Oi	I Range Organics (MRO)	ND	48		mg/Kg	1	6/21/2020 2:59:26 AM	53187
Surr: I	DNOP	167	55.1-146	S	%Rec	1	6/21/2020 2:59:26 AM	53187
EPA MET	THOD 8260B: VOLATILES S	HORT LIST					Analyst	DJF
Benzene	9	ND	0.025		mg/Kg	1	6/22/2020 4:27:38 AM	53183
Toluene		ND	0.049		mg/Kg	1	6/22/2020 4:27:38 AM	53183
Ethylben	izene	ND	0.049		mg/Kg	1	6/22/2020 4:27:38 AM	53183
Xylenes,	Total	ND	0.098		mg/Kg	1	6/22/2020 4:27:38 AM	53183
Surr: 2	1,2-Dichloroethane-d4	96.5	70-130		%Rec	1	6/22/2020 4:27:38 AM	53183
Surr: 4	4-Bromofluorobenzene	95.2	70-130		%Rec	1	6/22/2020 4:27:38 AM	53183
Surr: I	Dibromofluoromethane	97.1	70-130		%Rec	1	6/22/2020 4:27:38 AM	53183
Surr:	Toluene-d8	101	70-130		%Rec	1	6/22/2020 4:27:38 AM	53183

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
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Page 2 of 7

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2006A28

Date Reported: 6/25/2020

CLIENT:	Devon Energy		Cl	ient Sample II	D: W	S20-01						
Project:	Todd 13 Battery		Collection Date: 6/17/2020 2:03:00 PM									
Lab ID:	2006A28-003	Matrix: SOIL		19/2020 9:35:00 AM								
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA MET	THOD 300.0: ANIONS					Analyst	MRA					
Chloride		ND	60	mg/Kg	20	6/24/2020 4:16:42 PM	53275					
ΕΡΑ ΜΕΤ	THOD 8015D MOD: GASOLI	NE RANGE				Analyst	DJF					
Gasoline	e Range Organics (GRO)	ND	4.9	mg/Kg	1	6/22/2020 4:57:22 AM	53183					
Surr: E	BFB	108	70-130	%Rec	1	6/22/2020 4:57:22 AM	53183					
ΕΡΑ ΜΕΤ	THOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	BRM					
Diesel R	ange Organics (DRO)	ND	9.2	mg/Kg	1	6/21/2020 3:09:38 AM	53187					
Motor Oi	I Range Organics (MRO)	ND	46	mg/Kg	1	6/21/2020 3:09:38 AM	53187					
Surr: [DNOP	113	55.1-146	%Rec	1	6/21/2020 3:09:38 AM	53187					
EPA MET	THOD 8260B: VOLATILES S	HORT LIST				Analyst	DJF					
Benzene	9	ND	0.025	mg/Kg	1	6/22/2020 4:57:22 AM	53183					
Toluene		ND	0.049	mg/Kg	1	6/22/2020 4:57:22 AM	53183					
Ethylben	izene	ND	0.049	mg/Kg	1	6/22/2020 4:57:22 AM	53183					
Xylenes,	Total	ND	0.098	mg/Kg	1	6/22/2020 4:57:22 AM	53183					
Surr: 1	1,2-Dichloroethane-d4	95.4	70-130	%Rec	1	6/22/2020 4:57:22 AM	53183					
Surr: 4	4-Bromofluorobenzene	99.7	70-130	%Rec	1	6/22/2020 4:57:22 AM	53183					
Surr: [Dibromofluoromethane	96.5	70-130	%Rec	1	6/22/2020 4:57:22 AM	53183					
Surr: 7	Toluene-d8	98.6	70-130	%Rec	1	6/22/2020 4:57:22 AM	53183					

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

Qualifiers:

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- Р Sample pH Not In Range
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Client: Project:	Devon Energy Todd 13 Battery									
Sample ID: MB-5	3275 Samp	Type: m l	blk	Tes	tCode: EPA	A Method	300.0: Anion	6		
Client ID: PBS	Bate	ch ID: 53	275	F	RunNo: 698	365				
Prep Date: 6/24	Analysis	Date: 6/	/24/2020	S	SeqNo: 242	26931	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								
Sample ID: LCS-	5 3275 Samp	Type: Ics	5	Tes	tCode: EP/	A Method	300.0: Anion	5		
Client ID: LCSS	Bate	ch ID: 53	275	F	RunNo: 698	365				
Prep Date: 6/24	Analysis	Date: 6/	/24/2020	S	SeqNo: 242	26932	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.2	90	110			

Qualifiers:

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2006A28

25-Jun-20

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2006A28	

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Client: Project:	Devon E Todd 13	0.												
Sample ID: L	-CS-53184	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics				
Client ID: L	CSS	Batc	h ID: 53	184	F	RunNo: 69768								
Prep Date:	6/19/2020	Analysis E	Date: 6/	20/2020	S	SeqNo: 24	122439	Units: %Rec	:					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Surr: DNOP		6.4		5.000		128	55.1	146						
Sample ID: L	-CS-53187	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics				
Client ID:	Client ID: LCSS Batch ID: 53187 RunNo: 69768													
Prep Date:	ate: 6/19/2020 Analysis Date: 6/20/2020 SeqNo: 2422440							Units: mg/K	g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Or	ganics (DRO)	59	10	50.00	0	119	70	130						
Surr: DNOP		6.5		5.000		131	55.1	146						
Sample ID: N	MB-53184	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics				
Client ID: F	PBS	Batc	h ID: 53	184	F	RunNo: 69	9768							
Prep Date:	6/19/2020	Analysis E	Date: 6/	20/2020	S	SeqNo: 24	122442	Units: %Rec						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Surr: DNOP		14		10.00		137	55.1	146						
Sample ID: N	AB-53187	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics				
Client ID: F	PBS	Batc	h ID: 53	187	F	RunNo: 69	9768							
Prep Date:	6/19/2020	Analysis [Date: 6/	20/2020	5	SeqNo: 24	122443	Units: mg/K	n g/Kg					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Or	ganics (DRO)	ND	10											
Motor Oil Range	Organics (MRO)	ND	50											
Surr: DNOP		12		10.00		115	55.1	146						

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
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Devon Energy

Todd 13 Battery

Client:

Project:

Surr: Dibromofluoromethane

Surr: Toluene-d8

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

0.51

0.50

•	2												
Sample ID: mb-53183	Samp	Гуре: МЕ	BLK	Tes	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batc	h ID: 53	183	F	RunNo: 69787								
Prep Date: 6/19/2020	Analysis I	Date: 6/	21/2020	S	SeqNo: 24	423069	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	0.49		0.5000		97.8	70	130						
Surr: 4-Bromofluorobenzene	0.51		0.5000		103	70	130						
Surr: Dibromofluoromethane	0.47		0.5000		94.8	70	130						
Surr: Toluene-d8	0.50		0.5000		100	70	130						
Sample ID: Ics-53183	Samp	Type: LC	De: LCS4 TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: BatchQC	Batc	h ID: 53	183	F	RunNo: 6 9	9787							
Prep Date: 6/19/2020	Analysis I	Date: 6/	21/2020	S	SeqNo: 24	423070	Units: mg/K	g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.97	0.025	1.000	0	97.4	80	120						
Toluene	1.1	0.050	1.000	0	106	80	120						
Ethylbenzene	1.1	0.050	1.000	0	110	80	120						
Xylenes, Total	3.2	0.10	3.000	0	106	80	120						
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		101	70	130						
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.3	70	130						

0.5000

0.5000

Qualifiers:

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- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

в Analyte detected in the associated Method Blank

101

99.4

70

70

130

130

- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

25-Jun-20

WO#: 2006A28

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Devon E Project: Todd 13	0,											
Sample ID: mb-53183	SampTy	/pe: ME	BLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch	ID: 53	183	R	unNo: 69	9787						
Prep Date: 6/19/2020	Analysis Da	ate: 6/	21/2020	S	eqNo: 24	423143	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	540		500.0		107	70	130					
Sample ID: Ics-53183	SampTy	/pe: LC	S	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline I	Range			
Client ID: LCSS	Batch	ID: 53	183	R	unNo: 69	9787						
Prep Date: 6/19/2020	Analysis Da	ate: 6/	21/2020	S	eqNo: 24	423144	Units: mg/K	g				
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	70	130					
Surr: BFB	540		500.0		109	70	130					

Qualifiers:

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2006A28

25-Jun-20

WO#:

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmenta Alb TEL: 505-345-397 Website: www.h	49(ouquero 5 FAX:	mple Log-In Check List				
Client Name: Devon Energy	Work Order Number	r: 200	6A28			RcptNo:	1
Received By: Isaiah Ortiz	6/19/2020 9:35:00 AM	1		I	20	4	
Completed By: Juan Rojas	6/19/2020 9:52:26 AN			Hean	-C		
Reviewed By: SPA 6.19.20					D		
Chain of Custody							
1. Is Chain of Custody complete?		Yes		No		Not Present	
2. How was the sample delivered?		Cou	rier				
Log In							
3. Was an attempt made to cool the samples?		Yes	~	No		NA 🗌	
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes		No			
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	y 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			+1)
10. Were any sample containers received broke		Yes		No	V		-0
		200				# of preserved bottles checked	bliala
1. Does paperwork match bottle labels?		Yes	~	No		for pH:	
(Note discrepancies on chain of custody) 2. Are matrices correctly identified on Chain of (Cuptodu2	Yes		No	n	Adjusted?	>12 unless noted)
3. Is it clear what analyses were requested?	Sustouy?	Yes		No	HI.		
 4. Were all holding times able to be met? (If no, notify customer for authorization.) 		Yes		No		Checked by:	
Special Handling (if applicable)							
15. Was client notified of all discrepancies with t	his order?	Yes		No			
Person Notified:	Date				-		
By Whom:	Via:	eMa	ail 🗌 Pł	none 🗌	Fax	In Person	
Regarding:					_		
Client Instructions:							
16. Additional remarks:							

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.1	Good				

Page 1 of 1

Rea	ceived	.>): 10/	7/20	20 8	918	0 1 5 7 A	МТ		-										Pag	e 123 of 1
12 ~ 5 ~ 2 "F 1	HALL ENVIDONMENTA		www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	10	Anal		S '*O	ed '') NO ² 2852	0 or 13, 1 3, 1 3, 1	158 Neta NC A) A)	by 8 by 8 (VO/)	EDB (PAHs 8260 8260 Total Total	×	×	y				CC Natalie Goodon	Bill Devon Energy
		T		4901 H	Tel. 50		(0		200	1.			-	1908 1808	×		×				ks:	
		Л	1	7						1.1.1.	1.1	100		BTEX		××	^ X				L L Remarks:	
	Turn-Around Time: S Day Tvr~	ld Standard □ Rush_		Todd 13 Battery	Project #:	20829607	Project Manager:		_	r: It twin	On Ice: 🛛 Yes 🗆 No	27-2 1-1 2-12	COOLER LETTIP(including CF): 2-6 01 (CF) 31 (U)	Container Preservative HEAL No. Type and # Type 7006428		200- X X	200- X X				Received by: Via: Date Time	Time 0 {
	Chain-of-Custody Record	Energy	<i>.</i> .	DN FILE			Pro		4 (Full Validation)	mpliance	Other		3	Matrix Sample Name Ty	Soil 8520-01 L	× BS20-07	10-04SM 7				Relinquished by: Rec	Relinquished by Rec
	Chain-o	Client: De Vor		Mailing Address:		Phone #:	email or Fax#:	QA/QC Package:		:uc				Date Time Ma		X 1:45	X 7:03				Date: Time: Reli	ime: 1900

ATTACHMENT 8

Natalie Gordon

From: Sent: To: Cc: Subject: Attachments: Bynum, Tom (Contract) <Tom.Bynum@dvn.com> Thursday, October 15, 2020 2:51 PM Natalie Gordon Monica Peppin FW: [EXTERNAL] NRM2003154559 TODD 13 BATTERY @ P-17-23S-32E 0N 0E (C-141 Closure) NRM2003154559.pdf

Thank you,

TOM BYNUM EHS CONTRACTOR 580-748-1613

"Nothing has ever been resolved by continually pointing out the problem."

Devon - General

From: Eads, Cristina, EMNRD <Cristina.Eads@state.nm.us> Sent: Thursday, October 15, 2020 2:03 PM To: Bynum, Tom (Contract) <Tom.Bynum@dvn.com> Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Veneg Hamlet, Robert, EMNRD <Robert, Hamlet@state.nm.us>: CEO_Sp

Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; CFO_Spill, BLM_NM <blm_nm_cfo_spill@blm.gov> **Subject:** [EXTERNAL] NRM2003154559 TODD 13 BATTERY @ P-17-23S-32E 0N 0E

NRM2003154559 TODD 13 BATTERY @ P-17-23S-32E ON 0E

The OCD has denied the submitted Closure Request C-141 for incident # NRM2003154559 for the following reasons:

- Horizontal delineation has not been completed. Only one confirmation sidewall sample was collected, which
 appears to be from the northern boundary from the excavation. At a minimum, four separate sidewall
 composite samples should be collected from each cardinal direction of the excavation to demonstrate horizontal
 delineation.
- A 48-hour notice was not given to the OCD for the June 17, 2020 sampling event.

Also, could you please clarify why the confirmation base sample, collected in February, was collected from a depth of 0.5' if the total depth of the excavation was 1'?

The Denied C-141 can be found in the online image file. Please review and make the required correction prior to resubmitting though the fee portal. If you have any questions or believe this denial is in error, please contact me prior to submitting an additional C-141.

Thanks,

Cristina Eads *Environmental Bureau EMNRD – Oil Conservation Division* 5200 Oakland Avenue NE, Suite 100 Albuquerque, New Mexico 87113 505.670-5601 email: <u>Cristina.Eads@state.nm.us</u>



OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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COMMENTS

Action 10550

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 <u>District IV</u> 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

COMMENTS

Operator: Building	XTO ENERGY, INC 6401 Holiday Hill Road #5 Midland, TX79707	OGRID: 5380	Action Number: 10550	Action Type: C-14	11				
Created By	Comment				Comment Date				
ceads	ceads Original file name for application: "XTO_Deferral Request_Monument 36 Battery_NRM1927438604.pdf" File consisted of closure report for "NRM2003154559 TODD 13 BATTERY @ P- 17-23S-32E 0N 0E"								

CONDITIONS

Action 10550

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 <u>District IV</u> 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 OF APPROVAL

Operator:	OGRID:		Action Type:
XTO ENERGY, INC 6401 Holiday Hill Road	5380	10550	C-141
Building #5 Midland, TX79707			
OCD Reviewer	Condition		
ceads	None		